

**Remedial Investigation and  
Remedial Alternatives Analysis Report  
(Volume 2 of 5)**

**Midler City Industrial Park Site  
Brownfield Cleanup**

City of Syracuse  
Onondaga County, New York

**NYSDEC BROWNFIELD SITE # C734103**

Prepared for  
**Pioneer Midler Avenue, LLC**

By



C&S Engineers, Inc.  
499 Col. Eileen Collins Blvd.  
Syracuse, New York 13212

December 2007

**Midler City Industrial Park Site**  
**Remedial Investigation and Remedial Alternatives Analysis Report**

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	Geotechnical Boring Logs
	Test Pit Logs
	PID Logs
	Soil Vapor Sampling Field Logs
Appendix B	Historic and Supplemental Investigations (Bound with Volume 1 of 5)

Hydraulic Conductivity Test Data

GeoLogic Groundwater and Contaminant Flow Report

July 2004 Preliminary Site Investigation Report

Independent Geochemistry and Microbiology Investigations

Appendix C Data Usability Summary Reports (DUSRs) - (Bound Separately, Volumes 3, 4  
and 5 of 5)

**APPENDIX A**  
**SUBSURFACE INVESTIGATION LOGS**  
**(VOLUME 2 OF 5)**

## **ENVIRONMENTAL BORING LOGS**

Client C & S ENGINEERS  
 Project PIONEER MIDLER LLC  
BROWNSFIELD INVESTIGATION  
 Location 621 SOUTH MIDLER  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. 81  
 Project No. C81.C02.G01.220  
 Street 1 of 1  
 Date Started 11/12/04  
 Date Completed 11/12/04  
 Driller JEFF GRANT

Casing CME 55  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wt \_\_\_\_\_ lb. Fall \_\_\_\_\_ in  
 Roll Sampler 2" SPLIT SPOON  
 Sample Hammer Wt 140 lb. Fall 30 in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location SEE PLAN  
 Surface Elevation BY CLIENT

Date	Time	Condition	Flow Rate	Water Level
11/12/04	3:15 P.M.	OUT	9.8	2.3

Depth	Sample Number	Sample Depth		Sample Type	SOIL				RQD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Grains on Sampler							
					20/20	10/10	10/15	15/20				
1	0.0	2.0	S	10	5	3	3	8	0.4	MOIST, BROWN, LOOSE, COARSE MEDIUM FINE SAND. TRACE FINE GRAVEL		
2	2.0	4.0	S	3	2	1	2	3	1.8			
5	3	4.0	6.0	S	3	1	2	4	3	1.0	WET, BLACK, VERY SOFT, FINE SAND. LITTLE COARSE TO MEDIUM SAND. TRACE BRICKS, TRACE ORGANICS, TRACE SILT	
4	6.0	8.0	S	1	1	1	1	2	0.2	MOIST, BROWN PEAT. TRACE MARL		
5	8.0	10.0	S	1	1	1	1	2	4.0	MOIST, BROWN SOFT PEAT. LITTLE FINE SAND.		
10	6	10.0	12.0	S	1	1	1	1	2	2.0	TRACE COARSE TO MEDIUM SAND. TRACE MARL	
7	12.0	14.0	S	1	1	1	18	2	5.3	WET, TAN MARL.		
15	8	14.0	16.0	S	17	21	19	1	40	1.5	WET, BLACK, SOFT PEAT. LITTLE FINE SAND. TRACE COARSE TO MEDIUM SAND. TRACE MARL	
9	16.0	18.0	S	1	1	1	1	2	1.3	WET, BROWN, SOFT PEAT		
10	18.0	20.0	S	1	1	1	1	2	8.3	WET, TAN MARL.		
20	11	20.0	22.0	S	10	16	12	15	28	1.8	WET, FINE TO COARSE GRAVEL. LITTLE FINE SAND. TRACE MARL	
									0.0			
									17.0			
									1.4	WET, BROWN AND TAN MARL. LITTLE PEAT.		
									18.0	WET, GRAY, VERY SOFT CLAY		
									1.4			
BORING TERMINATED AT 20'.0												

Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **621 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. **B2**  
 Project No. **C31 C02 C01 220**  
 Sheet **1** of **1**  
 Date Started **11/12/04**  
 Date Completed **11/12/04**  
 Driller **HARRY LYON**

Rigging **LMI LOW CLEARANCE RIG**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt \_\_\_\_\_ b. Fall \_\_\_\_\_ n  
 Split Sampler **2" SPLIT SPOON**  
 Sample Hammer Wt **1.00** b. Fall **30** n  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location **SEE PLAN (INDOORS)**  
 Surface Elevation **BY CLIENT**  
 Ground Water Observations  
 Date **11/12/04** Time **2:14 P.M.** Casing at **17.0** Meas. at **19.0** Water at **5.5**

Depth	Sample Number	Sample Depth		Sample Type	COIL				RQD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Rows on Sampler							
					1:05'	0:20'	1:01'	1:32'				
1	1.0	2.5	S	WOR	WOR	27	50/0			1.0 CONCRETE	0.5	
2	3.0	5.0	S	WOR	1	2	WCR	3		FINE TO COARSE GRAVEL (FILL)	2.5	
5	3	5.0	7.0	S	1	2	1	WOR	3	0.3 CONCRETE	3.0	
										POSSIBLE GRAVEL	3.5	
4	7.0	9.0	S	3	3	1	1		4	1.0 SATURATED, LIGHT BROWN, DEGRADED PEAT	3.0	
5	9.0	11.0	S	1	1	1	1		2	1.0 GRADES TO SATURATED, LIGHT BROWN, LOOSE DEGRADED PEAT AND SILT. LITTLE FINE SAND.		
10										1.8 TRACE FINE GRAVEL. TRACE MARL.		
6	11.0	13.0	S	1	1	2	1		3		1.5	
7	13.0	15.0	S	1	1	WOR	2	1			1.3	
15	8	15.0	17.0	S	1	2	WOR	WOR	2		1.4	
9	17.0	19.0	S	2	2	1	2	3		1.5 GRADES TO SATURATED, LIGHT BROWN DEGRADED PEAT. TRACE SILT. TRACE FINE GRAVEL.	16.0	
20										WET, BROWN PEAT. TRACE FINE GRAVEL	18.0	
										WET, GRAY CLAY. TRACE SILT.	18.5	
										BORING TERMINATED AT 19.0		

Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **621 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boring No **63**  
 Project No **C31.002 C01 220**  
 Sheet **1** of **1**  
 Date Started **11/11/04**  
 Date Completed **11/11/04**  
 Driller **JEFF GRANT**

Drilling **CME 55**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt \_\_\_\_\_ b. Fall \_\_\_\_\_ n  
 Soil Sampler **2" SPLIT SPOON**  
 Sampler Hammer Wt **140** b. Fall **30** n  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location **SEE PLAN**  
 Surface Elevation **BY CLIENT**  
 Closed Water Observations  
 Date **11/11/04** Time **10:55 A.M.** Casing at **OUT** Hole at **14.4** Water at **4.8**

Depth	Sample Number	Sample Depth		Sample Type	COL					Rock Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler				RCD			
					W.S.P.	S.P.T.	1913	1920				
1	00	2.0	S	6	10	23	38	33	1.6 MOIST, BROWN, COMPACT, FINE SAND. LITTLE FINE GRAVEL, TRACE COARSE, MEDIUM FINE SAND, TRACE BRICK FRAGMENTS. TRACE ORGANICS.	2.8		
2	2.0	2.3	S	50/3					1.7 MOIST, BROWN, LOOSE, FINE SAND, TRACE ORGANICS. TRACE SLAG	4.7		
5	3	4.0	6.0	S	4	2	3	1	5	1.8 WET, TAN, MARL	5.1	
4	6.0	8.0	S	2	1	1	1	1	2	1.0 WET, BROWN, PEAT	5.6	
5	8.0	10.0	S	1	1	1	1	1	2	2.0 WET, BROWN, VERY SOFT PEAT	10.0	
10	6	10.0	12.0	S	1	2	1	2	3	1.8 WET, TAN MARL	10.3	
7	12.0	14.0	S	1	1	1	1	1	2	1.1 WET, BROWN PEAT	14.0	
15	8	14.0	16.0	S	1	1	2	1	3	1.5 WET BROWN AND TAN MARL. LITTLE PEAT	14.7	
9	16.0	18.0	S	1	1	1	2	2	2	1.8 WET, VERY SOFT, GRAY CLAY. SOME COARSE MEDIUM FINE SAND. TRACE SILT.	17.5	
10	18.0	20.0	S	1	1	6	7	7	7	WET, MEDIUM, GRAY, COARSE, MEDIUM FINE SAND. LITTLE FINE GRAVEL. TRACE CLAY	18.5	
20										BORING TERMINATED AT 20' 0"		

Client C & S ENGINEERS  
 Project PIONEER MIDLER LLC  
BROWNSFIELD INVESTIGATION  
 Location 621 SOUTH MIDLER  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No 84  
 Project No C81 002.001 220  
 Sheet 1 of 1  
 Date Started 11/11/04  
 Date Completed 11/11/04  
 Driller HARRY LYON

Drill Rig LM1 LOW CLEARANCE RIG  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wt \_\_\_\_\_ lb. Fall \_\_\_\_\_ in  
 Soil Sampler 2" SPLIT SPOON  
 Sample Hammer Wt 140 lb. Fall 30 in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location SEE PLAN (INDICORS)  
 Surface Elevation BY CLIENT

Ground Water Observations				
Date	Time	Casing at	Pipe at	Water at
<u>11/11/04</u>	<u>11:32 A.M.</u>	<u>40</u>	<u>6.0</u>	<u>3.0</u>
<u>11/11/04</u>	<u>2:00 P.M.</u>	<u>18.0</u>	<u>20.0</u>	<u>3.1</u>

Depth	Sample Number		Sample Type	SOIL							Sample Recovery	MATERIAL DESCRIPTION	REMARKS
	Sample Depth			Blows on Sampler									
	From (Ft)	To (Ft)		2' to 3'	3' to 4'	4' to 5'	5' to 6'	6' to 7'	N				
1	0.0	2.0	S	3	2	5	5	7	7	1.6	MOIST, BROWN, LOOSE, FINE TO COARSE SAND. LITTLE FINE GRAVEL WITH ROOTS	0.5	
2	2.0	4.0	S	7	5	4	3	9	9	1.0	MOIST, BROWN, SOFT SILT AND CLAY. TRACE ROOTS	1.0	
5	3	4.0	6.0	S	1	2	2	1	4	1.3	MOIST, BROWN, LOOSE, FINE SAND AND SILT. SOME COAL ASH. (FILL)	3.0	
4	6.0	8.0	S	1	WOR	1	2	1	1	1.7	MOIST, BROWN PEAT AND FINE SAND GRADES TO WET, BROWN, FINE SAND. TRACE	3.5	
5	8.0	10.0	S	1	WOR	WOR	WOR			1.2	SILT	4.0	
10	6	10.0	12.0	S	WOR	1	WOR	1	1	1.2	SATURATED, LIGHT BROWN, SOFT, DECOMPOSED PEAT. TRACE ROOT FIBERS	6.5	
7	12.0	14.0	S	WOR	1	WOR	4	1	1	1.5		13.5	
15	8	14.0	18.0	S	4	6	6	2	12	1.0	SATURATED, LIGHT BROWN PEAT AND FINE SAND GRADES TO SATURATED, LIGHT BROWN	13.8	
9	16.0	18.0	S	WOR	2	2	2	4	4	1.5	FIRM FINE TO COARSE SAND.	16.5	
10	18.0	20.0	S	1	1	1	1	2	2	1.1	PEAT.	17.5	
20											WET, GRAY, SOFT CLAY. SOME SILT WITH ROOT FIBERS	18.5	
											WET, BROWN PEAT	19.0	
											SATURATED, GRAY, SOFT, MARINE CLAY. TRACE SILT. TRACE MARL		
											BORING TERMINATED AT 20' 0"		



Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **621 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boing No **35**  
 Project No **C81.002.001.220**  
 Client **1** of **1**  
 Date Started **11/12/04**  
 Date Completed **11/12/04**  
 Driller **JEFF GRANT**

Drilling **CME 55**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt \_\_\_\_\_ lb. Fall \_\_\_\_\_ in  
 Rod Sampler **2" SPLIT SPOON**  
 Sample Hammer Wt **140** lb. Fall **30** in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_

Boring Location **SEE PLAN**  
 Surface Elevation **BY CLIENT**  
 Ground Water Observations  
 Date **11/12/04** Time **11:10 A.M.** Casing at **CUT** Hole at **8.9'** Water at **16'**

Weather Conditions \_\_\_\_\_

Depth	Sample Number	Sample Depth		Sample Type	SOIL					POD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler				N				
					0-2' S	2-4' S	4-8' S	8-12' S					
				Rock Recovery						Depth of Change			
				Fl.	%								
	1	0.0	2.0	S	18	12	5	7	17		1.0 MOIST, GRAY, FIRM, FINE GRAVEL. LITTLE COARSE, MEDIUM FINE SAND. TRACE ORGANICS	0.3	
	2	2.0	4.0	S	6	4	3	3	7		0.8 MOIST, TAN, FIRM, FINE SAND	1.5	
	5	3	4.0	6.0	S	2	1	2	7	3	1.0 MOIST, BROWN, COARSE, MEDIUM FINE SAND, TRACE FINE GRAVEL, TRACE SLAG, TRACE ORGANICS	4.0	
	4	6.0	8.0	S	2	1	1	2	2		1.0 WET, BROWN PEAT	4.5	
	5	8.0	10.0	S	W	O	H	2	0		1.7 WET, BLACK, FINE SAND. TRACE FINE GRAVEL. TRACE COARSE, MEDIUM FINE SAND.	6.5	
	10	6	10.0	12.0	S	1	1	1	1	2	1.7 WET, BROWN PEAT	7.0	
	6	10.0	12.0	S	1	1	1	1	2		2.0 WET, TAN MARL		
	7	12.0	14.0	S	1	1	1	1	2		2.0		
	15	8	14.0	16.0	S	1	1	1	1	2	1.8		
	9	16.0	18.0	S	1	1	1	1	2		1.8 WET, BROWN PEAT	15.0	
	10	18.0	20.0	S	WT.	OF	ROD				1.8 WET, TAN MARL	15.5	
	20										2.0 WET, GRAY CLAY. TRACE SILT	16.5	
											WET, TAN MARL. TRACE BROWN PEAT	17.3	
											WET, RED GRAY CLAY. LITTLE SILT	18.0	
											BORING TERMINATED AT 20' 0"		

Client C & S ENGINEERS  
 Project PIONEER MIDLER LLC  
BROWNSFIELD INVESTIGATION  
 Location 621 SOUTH MIDLER  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. B6  
 Project No. C81 002.001 220  
 Sheet 1 of 1  
 Date Started 11/11/04  
 Date Completed 11/11/04  
 Driller JEFF GRANT

Drill Rig CME 55  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wt \_\_\_\_\_ b. Fall \_\_\_\_\_ in  
 Rod Sampler 2" SPLIT SPOON  
 Sample Hammer Wt 140 b. Fall 30 in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location SEE PLAN  
 Surface Elevation BY CLIENT  
 Ground Water Observations  
 Date 11/11/04 Time 1:40 P.M. Casing at CUT Pipe at 133 Water at 19

Depth	Sample Number	Sample Depth		Sample Type	SOIL					RQD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler								
					20's	10's	5's	2's	N				
					Rock Recovery								
	1	0.5	2.0	S	11	9	7	27	16		1.0	MOIST, BROWN AND BLACK, FIRM, FINE SAND. LITTLE COARSE MEDIUM FINE SAND. TRACE	
	2	2.0	4.0	S	14	30	11	17	41		1.1	FINE GRAVEL, TRACE BRICK FRAGMENTS	
5	3	4.0	6.0	S	22	17	19	22	36		1.8		
	4	6.0	8.0	S	16	10	7	4	17		1.6	WET, BLACK, COMPACT, FINE SAND	5.0
	5	8.0	10.0	S	4	3	2	1	5		1.5	WET, BROWN, COMPACT, FINE GRAVEL. LITTLE COARSE, MEDIUM FINE SAND. TRACE ORGANICS.	5.7
10	6	10.0	12.0	S	1	1	1	2	1.8		2.0	COARSE, MEDIUM FINE SAND. TRACE ORGANICS. WET, BLACK, FIRM, FINE SAND. TRACE SLAG	6.0
	7	12.0	14.0	S	1	4	5	2	9		1.2	TRACE FINE GRAVEL	8.5
	8	14.0	16.0	S	3	4	6	5	10		1.2	WET, BROWN, SOFT PEAT	12.5
15	9	16.0	18.0	S	3	2	1	1	3		1.7	WET, BROWN PEAT	13.2
	10	18.0	20.0	S	2	3	2	3	5		1.1	WET, TAN MARL	18.5
20											1.1	WET, BROWN, SOFT PEAT	19.3
												WET, GRAY, SOFT CLAY	
												BORING TERMINATED AT 20' 0"	

Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **621 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. **B7**  
 Project No. **C31 C02.001.220**  
 Sheet **1** of **1**  
 Date Started **11/17/04**  
 Date Completed **11/17/04**  
 Driller **JEFF GRANT**

Drill Rig **CME 55**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt. \_\_\_\_\_ b. Fall \_\_\_\_\_ in  
 Soil Sampler **2" SPLIT SPOON**  
 Sample Hammer Wt. **140** b. Fall **20** in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location **SEE PLAN**  
 Surface Elevation **BY CLIENT**  
 Ground Water Observations  
 Date **11/17/04** Time **8:53 A.M.** Condition **OUT** Depth **7.9** Water at **3.5**

Depth	Sample Number	Sample Depth		Sample Type	SOIL				N	BOD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler								
					0-0.5'	0.5-1.0'	1.0-1.5'	1.5-2.0'					
					Rock Recovery								
		Ft	%										
1	0.0	2.0	S	6	5	6	6	11		1.7	MOIST, BROWN AND BLACK, FINE SAND. SOME COARSE TO MEDIUM SAND. TRACE FINE 0.7 GRAVEL. TRACE SLAG.		
2	2.0	4.0	S	4	3	3	3	6		3.5			
5	3	4.0	6.0	S	25	6	4	3	10	0.9	SATURATED, BLACK, FINE SAND. TRACE MEDIUM TO COARSE SAND. TRACE SLAG.	NOTE B7A ADDITIONAL BORING 4' 0" DEEP WITH 2" SPOONS	
	4	6.0	8.0	S	4	3	3	4	6	1.7			
	5	8.0	10.0	S	2	2	3	3	5	0.0			
10	6	10.0	12.0	S	2	3	2	3	5	0.9	WET, BROWN, PEAT. TRACE WOOD		
	7	12.0	14.0	S	1	2	2	1	3	0.0			
15	8	14.0	16.0	S	E	O	H	1	0	1.0	WET, TAN, VERY SOFT MARL		
	9	16.0	18.0	S	2	3	2	3	5	1.3	WET, DARK BROWN PEAT. TRACE WOOD		
	10	18.0	20.0	S	1	2	2	3	4	2.0	WET, GRAY, CLAY		
20											WET, RED GRAY CLAY. LITTLE SLT. TRACE FINE SAND		
											BORING TERMINATED AT 20' 0"		

Client C & S ENGINEERS  
 Project PIONEER MIDLER LLC  
BROWNSFIELD INVESTIGATION  
 Location 621 SOUTH MIDLER  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. B8  
 Project No. C81.002.001.220  
 Sheet 1 of 1  
 Date Started 11/11/04  
 Date Completed 11/12/04  
 Driller JEFF GRANT

Drilling CME 55  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wit \_\_\_\_\_ b. Ful \_\_\_\_\_ in  
 Soil Sampler 2" SPLIT SPOON  
 Sample Hammer Wit 110 b. Ful 30 in  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_  
 Weather Conditions \_\_\_\_\_

Boring Location SEE PLAN  
 Surface Elevation BY CLIENT  
 Ground Water Observations

Date	Time	Casing at	Head at	Water at
11/12/04	8:36 P.M.	18.0	18.1	5.9

Depth	Sample Number	Sample Depth		Sample Type	SOIL					Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler				N			
					0-2'	2-4'	4-8'	8-12'				
		Rock Recovery			RQD							
1	0.0	2.0	S	18		37	27	25	66	1.5	MOIST, GRAY, VERY COMPACT, COARSE, MEDIUM FINE SAND. LITTLE FINE GRAVEL.	
2	2.0	4.0	S	13	37	35	18	72	1.8	TRACE ORGANICS	3.1	
5	3	4.0	6.0	S	19	17	20	22	37	1.4	MOIST, BLACK, VERY COMPACT MEDIUM TO FINE SAND. TRACE SLAG	
4	6.0	8.0	S	15	12	16	12	28	1.6		6.0	
10	5	8.0	10.0	S	2	2	2	1	4	1.6	SATURATED, BROWN, FIRM, COARSE, MEDIUM FINE SAND. SOME FINE GRAVEL.	7.0
	6	10.0	12.0	S	2	2	2	1	4	1.6	SATURATED, BLACK, FIRM, FINE SAND	8.5
15	7	12.0	14.0	S	2	2	2	1	4	1.5	SATURATED, DARK BROWN, SOFT PEAT	9.0
	8	14.0	16.0	S	3	2	1	2	3	1.2	SATURATED, TAN MARL	12.0
	9	16.0	18.0	S	1	1	1	3	2	1.4	WET, SOFT, DARK BROWN PEAT	13.4
	10	18.0	20.0	S	1	1	2	2	3	1.4	WET, SOFT, TAN MARL, MARBLED WITH DARK BROWN PEAT	16.5
20	11	18.0	20.0	S	1	1	2	2	3	1.5	WET, SOFT, DARK BROWN PEAT	18.0
	12	18.0	20.0	S	1	1	2	2	3	2.0	WET, SOFT, GRAY CLAY	
BORING TERMINATED AT 20' 0"												

Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **521 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. **E9**  
 Project No. **C31 002.001 220**  
 Sheet **1** of **1**  
 Date Started **11/11/04**  
 Date Completed **11/11/04**  
 Driller **JEFF GRANT**

Casing **CME 55**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt \_\_\_\_\_ b. Fall \_\_\_\_\_ n  
 Soil Sampler **2" SPLIT SPOCCN**  
 Sample Hammer Wt **140** b. Fall **30** n  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_

Boring Location **SEE PLAN**  
 Surface Elevation **BY CLIENT**  
 Ground Water Observations  
 Date **11/11/04** Time **3:24 P.M.** Casing at **CUT** Hole at **11.7** Water at **5.1**

Weather Conditions \_\_\_\_\_

Depth	Sample Number	Sample Depth		Sample Type	SCIL				N	RQD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS	
		From (Ft)	To (Ft)		Blows on Sampler									Rock Recovery
					0/2.5'	0.5/1.0'	1.0/1.5'	1.5/2.0'						
	1	0.0	2.0	S	10	17	13	20	30		1.7 MOIST, BLACK, FIRM, COARSE MEDIUM FINE SAND LITTLE FINE GRAVEL, TRACE ORGANICS, TRACE SILT			
	2	2.0	4.0	S	16	17	24	21	43		1.5 SILT MOIST, BROWN, COMPACT, FINE SAND. SCME	2.0		
5	3	4.0	6.0	S	8	7	3	1	10		0.9 COARSE TO MEDIUM SAND. TRACE SLAG	5.0		
	4	6.0	8.0	S	1	1	1	1	2		2.0 WET, WHITE TAN, VERY SOFT MARL			
	5	8.0	10.0	S	1	1	1	1	2		1.3	8.5		
10	6	10.0	12.0	S	1	1	1	1	2		0.8 WET, DARK BROWN, VERY SOFT PEAT WET, WHITE, VERY SOFT MARL	9.0 10.0		
	7	12.0	14.0	S	1	1	1	1	2		1.4 WET, DARK BROWN, VERY SOFT PEAT, MIXED WITH TAN MARL			
15	8	14.0	16.0	S	W	O	H	1	0		1.1	17.5		
	9	16.0	18.0	S	W	O	H	1	0		0.8 WET, DARK BROWN, VERY SOFT PEAT	19.0		
	10	18.0	20.0	S	1	0	1	0	1		0.3 WET, GRAY, VERY SOFT CLAY	20.5		
20	11	20.0	22.0	S	10	16	12	15	28		1.4 WET, GRAY, HARD CLAY. SOME FINE GRAVEL. LITTLE COARSE, MEDIUM FINE SAND. TRACE SILT WET, GRAY, HARD SILT. LITTLE CLAY BORING TERMINATED AT 22'0"	21.5		
25														

Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER LLC**  
**BROWNSFIELD INVESTIGATION**  
 Location **621 SOUTH MIDLER**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Spring No **B10**  
 Project No **C31.002.001.220**  
 Sheet **1** of **1**  
 Date Started **11/12/04**  
 Date Completed **11/12/04**  
 Caller **HARRY LYON**

Drill Rig **45B TRAILER RIG**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Hammer Wt \_\_\_\_\_ lb. Fat \_\_\_\_\_ in.  
 Soil Sampler **2" SPLIT SPOON**  
 Sample Hammer Wt **110** lb. Fat **30** in.  
 Rock Sampler \_\_\_\_\_  
 Other \_\_\_\_\_

Boring Location **SEE PLAN (INDCORS)**

Surface Elevation **BY CLIENT**

Date	Time	Casing at	Water at	Water at
11/12/04	3:35 P.M.		5.0	2.5

Weather Conditions \_\_\_\_\_

Depth	Sample Number		Sample Type	SOIL					RCD	Sample Recovery	MATERIAL DESCRIPTION	Depth of Change	REMARKS
	From (Ft)	To (Ft)		Blows on Sampler									
				0-9"	9-12"	12-18"	18-24"	N					
1	1.5	3.0	S	1	1	1			2	0.5 CONCRETE	0.7	SAMPLE # 2 HAS HYDRO CARBON ODOR	
										VOID	1.5		
2	3.0	5.0	S	1	1	1	2		2	0.3 GRAVEL	2.0		
										MOIST, BROWN, LOOSE, FINE TO COARSE SAND			
5	3	5.0	S	8	32	50.4				0.3 WITH GLASS AND COAL FRAGMENTS. TRACE PEAT (FILL)	6.0		
										POSSIBLE WOOD			
										BORING TERMINATED AT 6.4			



**GeoLogic NY, Inc.**

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 607-749-5063 (fax)

**SUBSURFACE LOG**

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-1  
 Project No.: 204006C-D  
 Date Started: 11/17/04  
 Date Completed: 11/17/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0		10			Asphalt at surface 0.3'			Curb Box with locking cap
1	1	7 8 7	15	0.7	FILL: Brown / Black fine SAND and SLAG, damp	0.4		Portland Cement
2					similar			Bentonite Seal 1.0' - 3.0'
3	2	3 3 1 2	4	0.2		0.2		2" Dia. PVC Riser, 0' - 4.0'
4					FILL: Brown fine SAND and SLAG, trace silt, wet	0.4		
5	3	6 4 5 1	9	0.8				
6		WH			PEAT			
7	4	1 WH 1	-	0.7	MARL	2.6		Sandpack 3.0' - 14.0'
8		WH						
9	5	1 1 WH	1	0.2		2.2		2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10		WH			similar with fine-coarse concretions			
11	6	WH WH WH WH	-	1.3		3.9		
12		WR			No Recovery			
13	7	WR WR WH 1	-	0				
14		WH			No Recovery			
15	8	WH WH WH WH	-	0				
16		WH			Peat 0.2'			
17	9	WH WH WH WH	-	1.0				With augers at 14.0', water level at 5.1'.
18					Gray CLAY, moist			
19					End of Borehole			WH - Weight of Hammer.
20								WR - Weight of Rod.

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: T. Wirickx

File: 204006C-D/tech/MW-1

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 607-749-5063 (fax)

## SUBSURFACE LOG

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-2  
 Project No.: 204006C-D  
 Date Started: 11/18/04  
 Date Completed: 11/18/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0								
1	1	2 2 3	4	1.5	Black SAND and GRAVEL at surface 0.3'	1.9		Curb Box with locking cap Portland Cement
2		3 3 4			FILL: Brown fine SAND, damp (Foundry Sand ?)			Bentonite Seal 1.0' - 3.0'
3	2	3 3 4	6	1.0	similar	1.1		2" Dia. PVC Riser, 0' - 4.0'
4		5 4 3 2			similar, wet	0.0		
5	3	4 3 2	7	1.0	similar	0.0		
6		2 1 2 2			similar	0.0		
7	4	2 2 2	3	1.0	PEAT, moist MARL, wet	0.0		Sandpack 3.0' - 14.0'
8		WH WH WH 1			similar	1.8		2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
9	5	WH WH WH 1	-	0.5	similar	3.9		
10		WH 3 2 1			similar	8.6		
11	6	1 3 2 1	5	2.0	similar	22.7		
12		1 3 2 4			similar with fine concretions	28.2		
13	7	1 3 2 4	5	1.2	similar with trace shells			
14		1 2 2 1			similar with trace shells			
15	8	1 2 2 1	4	0.8	similar with trace shells			
16		1 1 WH 1			No Recovery			
17	9	1 WH 1	1	1.7	No Recovery		With augers at 16.0', water level at 6.8'.	
18		WH WH WH 1			No Recovery		WH - Weight of Hammer.	
19	10	WH WH WH 1	-	0	No Recovery		WR - Weight of Rod.	
20					Gray CLAY, little silt, saturated			
21	11			1.9	Red Gray SAND	0		
22					End of Borehole			

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: T. Wirickx



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**SUBSURFACE LOG**

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-3  
 Project No.: 204006C-D  
 Date Started: 11/18/04  
 Date Completed: 11/18/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0		18			Asphalt at surface			Curb Box with locking cap
1	1	5 4 2	9	0.5	FILL: Gray SAND and fine GRAVEL 0.3' FILL: Brown fine SAND, trace slag, moist			Portland Cement
2		2			similar			Bentonite Seal 1.0' - 3.0'
3	2	2 2 1	4	0.2				2" Dia. PVC Riser, 0' - 4.0'
4		2			FILL: Brown / Black fine SAND and SLAG, wet			
5	3	3 3 2	6	0.7				Sandpack 3.0' - 14.0'
6		1			MARL, trace peat, wet			
7	4	1 1 1	2	0	No Recovery			
8		1			MARL, wet			
9	5	WH WH WH	-	1.2				2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10		WH WH WH			similar			
11	6	WH WH WH	-	0.8				
12		WH WH 1 WH			similar			
13	7	WH WH 1 WH	1	0				
14		WH WH WH WH			No Recovery			
15	8	WH WH WH WH	-	1.3				
16		WH WH WH WH			similar			
17	9	WH WH WH WH	-					
18		WH WH 1 WH						
19	10	WH WH 1 WH	1	0.9	Gray CLAY, little silt, wet			WH - Weight of Hammer.
20								
21					End of Borehole			

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: T. Wirickx

File: 204006C-D/tech/AMV 2

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## SUBSURFACE LOG

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-4  
 Project No.: 204006C-D  
 Date Started: 11/17/04  
 Date Completed: 11/17/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0								
1	1	1 3 1 2	4	0.7	Brown SAND, Some Silt at surface 0.1'	0.0		Curb Box with locking cap Portland Cement
2					Black / Brown fine SAND, little to trace slag (Foundry Sand ?), moist			Bentonite Seal 1.0' - 3.0'
3	2	6 4 2 2	6	1.0	PEAT, trace wood	0.0		2" Dia. PVC Riser, 0' - 4.0'
4					Black fine SAND and GRAVEL, wet			
5	3	8 9 6 12	15	0.5	PEAT	0.3		
6					No Recovery			Sandpack 3.0' - 14.0'
7	4	9 7 14 6	21	0				
8					No Recovery - PEAT			
9	5	WH 1 WH 1	1	0				2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10					No Recovery, similar			
11	6	1 2 2 2	4	0				
12					MARL, wet			
13	7	WH WH 1 1	1	0.8		19.2		
14					similar			
15	8	WH WH WH WH	-	0.5		24.7		
16					similar with shells			
17	9	WH WH WH WH	-	1.7	Gray CLAY, little silt, moist			With augers at 6.0', water level at 4.0'.
18					End of Borehole			
19							WH - Weight of Hammer.	
20								

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: T. Wirckx

File: 204006C-D-MW-4-1-11-04

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**SUBSURFACE LOG**

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-5  
 Project No.: 204006C-D  
 Date Started: 11/17/04  
 Date Completed: 11/17/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0		3			Topsoil at surface			Curb Box with locking cap
1	1	3 4 4	7	1.5	FILL: Tan fine-medium SAND, moist	0.0		Portland Cement
2		10						Bentonite Seal 1.0' - 3.0'
3	2	7 5 3	12	1.0	FILL: Black fine SAND, trace slag, (Foundry Sand ?) moist - saturated	0.0		2" Dia. PVC Riser, 0' - 4.0'
4		2						
5	3	1 2 1	3	1.1	PEAT, moist MARL, moist	0.7		
6		2			similar, moist - wet			Sandpack 3.0' - 16.0'
7	4	1 1 1	2	2.0		1.3		
8		WH			similar, wet			
9	5	WH 1 1	1	1.7		9.0		2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10		WR			similar			
11	6	WH 1 1	1	1.7		10.2		
12		WH			similar			
13	7	WH 1 1	1	1.5		14.8		
14		WH			similar			
15	8	1 1 1	2	0.8		18.7		
16		WH			similar			With augers at 14.0', water level at 11.4'.
17	9	WH 1 1	1	1.2	PEAT MARL, moist	16.4		WH - Weight of Hammer.
18		WH			Gray CLAY, little silt, moist			
19	10	WH WH WH	-	1.2	Red / Gray CLAY, little silt, moist	0.2		WR - Weight of Rod.
20					End of Borehole			
21								

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Auers

Visually Classified by: T. Wirickx

File: 204006C-D/tech/MW-5

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**SUBSURFACE LOG**

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-6  
 Project No.: 204006C-D  
 Date Started: 11/16/04  
 Date Completed: 11/16/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0		6			FILL: Brown fine-coarse SAND and fine GRAVEL, trace silt, moist			Curb Box with locking cap Portland Cement
1	1	5 6 6	11	0.3		0.6		Bentonite Seal 1.0' - 3.0'
2		6			similar, wood			
3	2	16 10 16	26	0.5		1.2		2" Dia. PVC Riser, 0' - 4.0'
4					Black fine SAND, moist			
5	3	3 4 5 2	9	0.7		0.0		
6		2			similar, little slag, wet			Sandpack 3.0' - 14.0'
7	4	2 2 3	4	2.0	PEAT, moist	3.4		
8					MARL, wet			
9	5	1 1 WH 1	1	1.3	similar	0.4		2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10		1			similar, trace shells			
11	6	WH WH WH	-	1.3		2.9		
12		WH						
13	7	23 49 13	72	0.5	PEAT and WOOD, moist	6.5		
14					MARL, wet			
15	8	2 2 3 2	5	1.5		9.2		
16					PEAT, wet			
17	9	2 2 3 2	5	0.8		8.7		
18					similar			
19	10	2 3 2 1	5	0.8		6.2		WH - Weight of Hammer.
20					End of Borehole			
21								

Sampling Method: ASTM D-1586, Unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: T. Wirick

File: 204006C-D/tech/MW-6

**GeoLogic NY, Inc.**

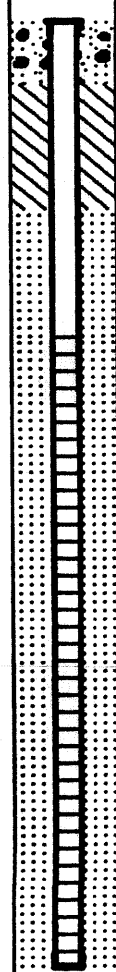
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**SUBSURFACE LOG**

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Boring No.: MW-7  
 Project No.: 204006C-D  
 Date Started: 11/16/04  
 Date Completed: 11/16/04  
 Page 1 of 1  
 Reference Elevation: N/A

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0					Topsoil at surface 0.2'			Curb Box with locking cap
1	1			1.2	FILL: Brown fine SAND, trace gravel and silt, moist	0.1		Portland Cement
2					similar with trace slag			Bentonite Seal 1.0' - 3.0'
3	2			0.7		0.1		2" Dia. PVC Riser, 0' - 5.0'
4		7			similar			
5	3	16 14 8	30	1.5	Brown Tan Black fine-coarse SAND, little clay, moist	0.1		Sandpack 3.0' - 15.0'
6		12						
7	4	5 5 5	10	1.6	Brown fine-coarse SAND, wet	0.6		
8		1			similar, dark Brown with trace gravel, wet			
9	5	2 1 2	3	0.3		0.0		2" Dia. PVC Well Screen, 0.020 Slot, 5.0' - 15.0'
10		1			PEAT, moist			
11	6	2 1 2	3	0.2	MARL, wet	0.0		
12		1			similar, moist - wet			
13	7	1 1 1	2	1.0		0.2		
14		1			PEAT, moist			
15	8	1 WH 1	1	1.8	MARL with concretions, wet	0.1		
16		WH						With augers at 16.0', water level at 9.0'.
17	9	1 1 1	2	1.2	PEAT, moist	7.0		
18		6			MARL, moist			
19	10	4 3 6	7	0.6	Gray CLAY, moist	0.2		WH - Weight of Hammer.
20					Red / Brown TILL			
21					Red Brown SILT, Some Sand			
21					End of Borehole			



Sampling Method: ASTM D-1586, Unless otherwise noted.

Visually Classified by: T. Wirickx

File: 204006C-D/tech/MW-7

**GeoLogic NY, Inc.**

P.O. Box 350  
 Homer, NY 13077  
 607-749-5000  
 607-749-5063 (fax)

**SUBSURFACE LOG**

Boring No.: MW-8

Project No.: 204006C-D

Date Started: 11/18/04

Date Completed: 11/18/04

Page 1 of 1

Reference Elevation: N/A

Project: Midler Avenue Site, Brownfield Cleanup  
 Location: Syracuse, New York

Depth (ft)	Number	SPT Blows (6")	N-Value	Recovery (ft)	MATERIAL DESCRIPTION	PID Readings (ppm)	Well Installation	Remarks
0		8			Brown SAND and SILT, Some Gravel at surface 0.4'			Curb Box with locking cap Portland Cement
1	1	8 6 3	14	0.8	FILL: Brown / Black fine-coarse SAND and SLAG, damp	0.9		Bentonite Seal 1.0' - 3.0'
2		2			similar			
3	2	2 3 2	5	0.6		1.1		2" Dia. PVC Riser, 0' - 4.0'
4					PEAT, moist MARL, moist			
5	3	1 1 1 1	2	1.5		0.5		
6					similar, saturated			Sandpack 3.0' - 14.0'
7	4	1 WH WH WH	-	1.7		0.7		
8					seams of PEAT and MARL			
9	5	4 5 4 3	9	2.0		0.6		2" Dia. PVC Well Screen, 0.020 Slot, 4.0' - 14.0'
10					Brown / Gray CLAY, trace peat, wet			
11	6	3 3 8 5	11	0.3	Brown / Gray CLAY, Some fine Gravel, wet	0.5		
12								
13	7	14 10 9 8	19	0.5	Gray to Brown fine-coarse SAND and fine GRAVEL	0.6		
14					similar			
15	8	13 8 8 9	16	0.6		0.4		
16					similar			
17	9	11 26 12 20	38	0.6		0.7		With augers at 12.0', water level at 6.5'.
18					Red / Brown SILT, fine-coarse SAND and GRAVEL, damp			
19					End of Borehole			WH - Weight of Hammer.
20								

Sampling Method: ASTM D-1586, Unless otherwise noted.

Visually Classified by: T. Wirickx

File: 204006C-D/tech/MW-8

Client C & S ENGINEERS  
 Project PIONEER MIDLER LLC  
 Location MIDLER AVE.  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. MW-2D  
 Project No. C81 002.001.220  
 Sheet 1 of 1  
 Date Started 01/21/05  
 Date Completed 01/21/05  
 Driller JEFF GRANT

Drill Rig CME 55  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wt \_\_\_\_\_ lb Ft \_\_\_\_\_ ft  
 Soil Sampler 2" SPLIT SPOON  
 Sample Hammer Wt 110 lb Ft 30 ft  
 Rock Sampler \_\_\_\_\_  
 Other 2" I.D. PVC WELL SCREEN 010 SLOT  
CON SANDPACK  
 Weather Conditions \_\_\_\_\_

Boring Location BY CLIENT  
 Surface Elevation BY CLIENT  
 Ground Water Observations  
 Date Time Casing at Elevation Water at

Depth	Sample Number	Sample Depth		Sample Type	SOIL				ROD
		From (Ft)	To (Ft)		Blows on Sampler				
					0-2"	2-4"	4-6"	6-8"	
1	0.0	2.0	S	16	10	9	5	17	
2	2.0	4.0	S	6	5	5	4	10	
5	3	4.0	6.0	S	4	4	3	2	7
10	4	6.0	8.0	S	2	2	3	2	5
	5	8.0	10.0	S	W	O	H		
	6	10.0	12.0	S	W	O	H	1	
15	7	12.0	14.0	S	1	2	3	2	5
	8	14.0	16.0	S	3	2	2	3	4
	9	16.0	18.0	S	1	W	O	H	
20	10	18.0	20.0	S	1	W	O	H	
	11	20.0	22.0	S	W	O	H		
25									

Sample Recovery	MATERIAL DESCRIPTION	REMARKS
1.7	TOPSOIL	
0.1	MOIST, BROWN, FIRM, FINE SAND. TRACE ORGANICS	
1.0	MOIST, BLACK, FIRM, FINE SAND	
0.7		
5.0	SATURATED, BROWN, MEDIUM PEAT	
1.0		
8.0	WET, TAN, SOFT MARL	
1.8		
2.0		
13.5	WET, TAN, SOFT MARL WITH CONCRETIONS	
14.5	WET TAN, SOFT MARL. TRACE BROWN PEAT	
0.8		
19.0	WET, GRAY, SOFT CLAY	BOTTOM OF WELL 20' 0"
	BORING TERMINATED AT 22' 0"	

Client: **C & S ENGINEERS**  
 Agency: **PIONEER MIDLER, LLC**  
 Location: **MIDLER AVE.**  
**SYRACUSE, N.Y.**



**LYON DRILLING CO.**  
**BORING LOG**

Boring No: **MW-3D**  
 Project No: **C81 002 001 220**  
 Sheet: **1** of **1**  
 Date Started: **01/25/05**  
 Date Completed: **01/25/05**  
 Driller: **JEFF GRANT**

Drilling: **CME 55**  
 Drilling: **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Drilling Hammer: **WT \_\_\_\_\_**  
 Rod Number: **2" SPLIT SPCON**  
 Sample Number: **WT 140** to **FT 30**  
 Rock Sampler:  
 Other: **2" I.D. PVC WELL SCREEN .010 SLOT**  
**OCN SANDPACK**  
 Water Conditions:

Boring Location: **BY CLIENT**

Surface Elevation: **BY CLIENT**

Ground Water Conditions

Date	Time	casing at	Depth at	Water at

Depth	Sample Number	Sample Depth		Sample Type	SOIL				ROD
		From (Ft)	To (Ft)		Blows on Sampler			N	
					2 3/8"	2 3/4"	1 1/4"		
1		0.0	2.0	S	77	20	23	17	43
2		2.0	4.0	S	19	17	11	9	28
5		4.0	6.0	S	2	1	1	2	2
4		6.0	8.0	S	1	2	1	2	3
5		8.0	10.0	S	1	1	1	1	2
6		10.0	12.0	S	1	1	1	1	2
7		12.0	14.0	S	1	1	1	1	2
8		14.0	16.0	S	1	1	1	1	2
9		16.0	18.0	S	2	2	2	2	4
10		18.0	20.0	S	2	3	2	2	5
11		20.0	22.0	S	1	1	1	1	2
12		22.0	24.0	S	W	O	H	1	
13		24.0	26.0	S	W	O	R		
14		26.0	28.0	S	W	O	R		

Sample Recovery	MATERIAL DESCRIPTION	REMARKS
1.2	SATURATED, BROWN, COMPACT, FINE SAND. TRACE GLAG	
0.7		
1.1	SATURATED, BROWN, SOFT PEAT	
1.6		
1.5	WET, WHITE MARL	
1.5		
1.8		
0.8		
2.0	WET, TAN, SOFT MARL. TRACE BROWN PEAT	
1.8		
1.3	WET, GRAY, SOFT CLAY	
1.6	WET, TAN, SOFT MARL. TRACE BROWN PEAT	
0.5	WET, TAN, SOFT MARL. TRACE PEAT	
0.5	WET, GRAY, SOFT CLAY	
		BOTTOM OF WELL 25' 0"
		BORING TERMINATED AT 28' 0"



Client **C & S ENGINEERS**  
 Project **PIONEER MIDLER, LLC**  
 Location **MIDLER AVE.**  
**SYRACUSE, N.Y.**



## LYON DRILLING CO. BORING LOG

Boring No **MW-40**  
 Project No **C31 C02.C01 220**  
 Sheet **1** of **1**  
 Date Started **01/25/05**  
 Date Completed **01/26/05**  
 Driller **JEFF GRANT**

Drill Rig **CME 55**  
 Casing **3 1/4" I.D. HOLLOW STEM AUGERS**  
 Casing Number Vt **\_\_\_\_\_** a **Full**  
 Rod Number **2" SPLIT SPOON**  
 Sample Marker Wt **140** a **Full** **30** a  
 Rock Sampler **\_\_\_\_\_**  
 Other **2" I.D. PVC WELL SCREEN .010 SLOT**  
**CON SANDPACK**  
 Weather Conditions **\_\_\_\_\_**

Boring Location		BY CLIENT			
Surface Elevation		BY CLIENT			
Date		Time		Ground Water Observations	
Casing #1	Depth at	Water at			

Depth	Sample Number	Sample Depth		Sample Type	SOIL				ROD	Sample Recovery	
		From (Ft)	To (Ft)		Cuts on Sampler						
					10/4	10/10	10/15	15/20	N		
					Rock Recovery						
					Ft	%					
1	05	0.9	S	50/4							
2	2.0	3.5	S	45	37	29	50	36			
5	3	4.0	4.1	S	50/1						
4	5.5	7.5	S	5	7	3	2	10			
5	8.0	10.0	S	2	3	2	2	5			
10	6	10.0	12.0	S	1	2	1	2	3		
	7	12.0	14.0	S	2	2	2	2	4		
15	8	14.0	16.0	S	2	1	1	1	2		
	9	16.0	18.0	S	1	1	1	1	2		

Material Description	Depth of Change	Remarks
0.5 BLACKTOP	0.3	
0.1 DRY, GRAY, COMPACT, FINE GRAVEL, SOME		
1.2 COARSE, MEDIUM FINE SAND	1.0	
0.1 MOIST, BLACK, COMPACT, FINE SAND.		
0.1 SATURATED, BROWN, SOFT PEAT	4.0	
0.6 SIMILAR, WET	5.5	
SIMILAR, LOOSE		
0.7	8.5	
SATURATED, BROWN, SOFT PEAT, TRACE		
0.5 MARL		
0.4		
1.3		
1.7 WET, GRAY, SOFT CLAY	15.0	
<b>BORING TERMINATED AT 18'0"</b>		<b>18'0" BOTTOM OF WELL</b>

Client C & S ENGINEERS  
 Project PIONEER MIDLER, LLC  
 Location MIDLER AVE.  
SYRACUSE, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

Boring No. MW-9D  
 Project No. C31 002.001.220  
 Sheet 1 of 1  
 Date Started 01/27/05  
 Date Completed 01/27/05  
 Order JEFF GRANT

Drill Rig CME 55  
 Casing 3 1/4" I.D. HOLLOW STEM AUGERS  
 Casing Hammer Wt \_\_\_\_\_ lb. Ft. \_\_\_\_\_ in  
 Soil Sampler 2" SPLIT SPOON  
 Sample Hammer Wt 140 lb. Ft. 30 in  
 Rock Sampler \_\_\_\_\_  
 Other 2" I.D. PVC WELL SCREEN .010 SLOT  
CON SANDPACK  
 Weather Conditions \_\_\_\_\_

Boring Location BY CLIENT  
 Surface Elevation BY CLIENT  
 Ground Water Observations  
 Date \_\_\_\_\_ Time \_\_\_\_\_ Casing at \_\_\_\_\_ Hole at \_\_\_\_\_ Water at \_\_\_\_\_

Depth	Sample Number	Sample Depth		Sample Type	SOIL				ROD	Sample Recovery	MATERIAL DESCRIPTION	REMARKS
		From (Ft)	To (Ft)		Blows on Sampler			N				
					6.25'	9.25'	12.25'					
				Rock Recovery								
				Ft	%					Depth of Change		
	1	0.0	2.0	S	10	10	10	6	20	1.4 TOPSOIL	0.4	
	2	2.0	4.0	S	6	6	3	2	9	COARSE GRAVEL, LITTLE FINE SAND	0.7	
5	3	4.0	6.0	S	3	4	3	3	7	1.2 MOIST, BLACK, FIRM, FINE SAND, SOME MEDIUM SAND		
	4	6.0	8.0	S	3	3	3	3	6	0.3	5.0	
	5	8.0	10.0	S	1	1	2	1	3	0.8 SATURATED, BROWN, PEAT.	6.0	
10	6	10.0	12.0	S	1	1	1	1	2	SATURATED, BROWN, SOFT PEAT, TRACE MARL	8.0	
	7	12.0	14.0	S	1	1	1	1	2	1.8 WET, TAN, SOFT MARL		
15	8	14.0	16.0	S	1	1	1	1	2	1.7	12.5-12.7 PEAT SEAM	
	9	16.0	18.0	S	1	1	1	1	2	2.0 WET, TAN, SOFT MARL, WITH SEAMS OF BROWN	14.0	
	10	18.0	20.0	S	W	O	H			1.0 PEAT	16.0	
20	11	20.0	22.0	S	W	O	H			WET, TAN, SOFT MARL, TRACE PEAT	17.8	
										2.0 WET, GRAY, SOFT CLAY, LITTLE SILT		
										1.5	18.0 BOTTOM OF WELL WITH 2'0 STICK UP	
										BORING TERMINATED AT 22'0		
25												



OWNER: MICHENER'S  
 PROJECT: MICHENER NIDLER WLD  
 LOCATION: NIDLER WLD  
 COUNTY: SHERIDAN, N.Y.



**LYON DRILLING CO.**  
**BORING LOG**

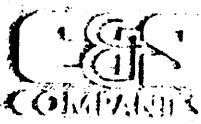
DATE: 01/20/05  
 TIME: 01:00 PM  
 OPERATOR: JEFF CRAMER

WELL NO: ONE 05  
 LOCATION: 317110 ROAD, WESTHAM BORO  
 COUNTY: SHERIDAN  
 STATE: N.Y.  
 ZONE: 21  
 DEPTH: 130  
 DTD: 2110  
 WELL SCREEN: 610 DLOT  
 PACK: 2110

LOG TYPE: BY CORE BIT  
 LOG TYPE: BY CORE BIT

Depth (ft)	Sample Depth		Lithology	Grain Size Distribution (%)					Moisture (%)
	From (ft)	To (ft)		Grain Size					
				20	40	60	100	200	
1	0.0	0.3	S	23	20.1				
2	2.0	4.0	S	27	24	19	7	13	
5	3	4.0	6.0	S	4	3	1	2	4
10	4	6.0	8.0	S	3	2	1	3	3
5	8.0	10.0	S	2	2	2	1	4	
6	10.0	12.0	S	3	3	3	2	6	
7	12.0	14.0	S	3	2	3	2	5	
15	8	14.0	16.0	S	2	2	2	2	4
9	16.0	18.0	S	2	3	2	3	5	
10	18.0	20.0	S	3	3	10	10	13	
11	20.0	22.0	S	8	7	13	15	22	
12	22.0	24.0	S	11	14	15	16	29	
25									

Depth (ft)	Material Description	Remarks
0.3	CRUSHER BIT (CBL)	0.5
1.1	MOIST, BROWN, MEDIUM TO FINE SAND. TRACE SLAG	
0.9		5.0
1.5	SATURATED, BROWN, SCFT PEAT	5.5
1.7	SATURATED, TAN MARL. TRACE PEAT	8.0
1.8	SATURATED, SCFT, BROWN PEAT	8.8
1.3	SATURATED, TAN MARL	11.3
0.5	SATURATED BROWN PEAT	12.0
0.9	WET, TAN SOFT MARL. TRACE BROWN PEAT	15.0
1.5	WET, BROWN, SOFT WOOD. TRACE PEAT	16.0
	WET, TAN, SOFT MARL, TRACE BROWN PEAT	19.0
1.0	WET, GRAY, MEDIUM, COARSE, MEDIUM FINE SAND. TRACE FINE GRAVEL. TRACE CLAY.	
1.2	WET, GRAY, FIRM, MEDIUM TO FINE SAND. SOME COARSE SAND. TRACE FINE GRAVEL	22.0
	BORING TERMINATED AT 24'0"	



ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd.  
 Syracuse, New York 13206  
 Phone: (315) 455-2000  
 Fax: (315) 455-9666

PROJECT: Midler Avenue		MONITORING WELL No. <b>SB-2-1</b>
CLIENT: Pioneer Midler Ave., LLC		PROJECT No. C81.001.001
LOCATION: Syracuse, NY		ELEVATION: 422.15 feet
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 16, 2005
EQUIPMENT: CME 45	DEPTH TO WATER: 4.02 feet	LOGGED BY: Hough
		TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring and shall not be interpreted as being indicative of the site

2				1.4			3" thick concrete floor slab with 1/2" asphalt overlay	
4				3.0		SM	SILTY SAND: dry to wet, brown mottle tan, fine sand and silt	
6	SB-2-1 (5'-7')			2.2				
8		6.5		2.6		SP	MARL: saturated, beige, fine to coarse grained marl	
10	SB-2-1 (8'-10')	18		2.2		ML	SILT: wet, brownish gray silt	
12		18		2.2		CH	CLAY: wet, grey clay	
14							Bottom of Boring = 12.0 feet	
16								
18								
20								

Sampling Method: ASTM D-1586  
 Notes:



ENGINEERS

C&S Engineers, Inc  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13211  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	SB-3-1
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION:	421.68 feet
CONTRACTOR: GeoLogic NY, Inc.		DATE:	March 16, 2005
EQUIPMENT: CME 45		DEPTH TO WATER:	3.69 feet
		LOGGED BY:	Hough
		TIME START:	
		TIME FINISH:	

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring and should not be interpreted as being indicative of the site

2	SB-3-1 (2'-4')	22	▽	1.8		SP	SAND: dry to moist, dark brown, poorly sorted sand (fill)	
4		18		12.6		MARL: moist to saturated, beige, fine to coarse grained marl with organics	2" of peat in the bottom of the spoon may represent marl with color leached from peat beds above	
6		12		5.8		SAND with PEAT: wet, brown sand with peat interbeds grades to...		
8		24		5		SP	MARL: saturated, beige, fine to coarse grained marl with finely interbedded organics	peat bed thickness typically <1"
10		12		2.2				
12	SB-3-1 (12'-14')	16		2.8				
14		24	2.2	CH	CLAY: wet, grey clay			
16							Bottom of Boring = 14.5 feet	
18								
20								

Sampling Method: ASTM D-1586  
 Notes:



ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	<b>SB-7-1</b>
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION:	422.02 feet
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 17, 2005	LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: 3.0 feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring and should not be interpreted as being indicative of the site

2	SB-7-1 (2'-4')	12	▽	5.4	[Stippled pattern]	SP	SAND: dry to moist, dark brown, poorly sorted sand (fill)	6" thick concrete floor slab
4		18		1.8		SP	MARL: moist to saturated, beige, fine to coarse grained marl	
6		4		3			...trace ammounts of disseminated organic material	
8		14		0.6		SP	MARL: saturated, beige, fine to coarse grained marl	
10	24	5.4	SP	MARL: saturated, beige, medium to coarse grained marl, trace gravel and organics	1" thick peat layer at bottom of 8-10' sample spoon			
12	10	1			very fine interbeds of organic material at 12'			
14	SB-7-1 (16'-18')	12	▽	0.6	[Horizontal line pattern]	SC	MARL with CLAY: saturated, beige, medium to coarse grained marl with fine interbeds of grey clay	
16		20		4.2		SM	SILTY SAND: saturated, grey silty sand	
18						CH	CLAY: wet, grey clay	
20							Bottom of Boring = 18.0 feet	

Sampling Method: ASTM D-1586

Notes:



ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	SB-9-1
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION: 422.15 feet	
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 17, 2005	LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: 3.62 feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring and should not be interpreted as being indicative of the site

2		6		3.0		SP	<u>SAND</u> : dry to moist, dark brown, poorly sorted sand (fill)	very poor recovery
4	SB-9-1 (4'-6')	3	▽	0.6				
6		12		1.0				
8		12		1.4		SP	<u>MARL</u> : moist to saturated, beige, fine to coarse grained marl	
10		22		1.0				
12		18		1.0				
14		4		2.2				
16		4		5.8			interbeds of peat typically <1" thick	distinct H <sub>2</sub> S odor through bottom of boring
18	SB-9-1 (16'-18')	12		17.4				
18				23.4		CH	<u>CLAY</u> : wet, grey clay	
20							Bottom of Boring = 18.5 feet	

Sampling Method: ASTM D-1586

Notes:





ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue	MONITORING WELL No. SB-12-1
CLIENT: Pioneer Midler Ave., LLC	PROJECT No. C81.001.001
LOCATION: Syracuse, NY	ELEVATION: 419.69 feet
CONTRACTOR: GeoLogic NY, Inc.	DATE: March 18, 2005
EQUIPMENT: CME 45	DEPTH TO WATER: 1.54 feet
	LOGGED BY: Hough
	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring and should not be interpreted as being indicative of the site

2	SB-12-1 (0'-2')	14	107.8			SP	SAND: dry to moist, dark brown, poorly sorted sand (fill)	5.25" thick concrete floor slab
4		12	5.8			SP		
6		4	3.8			SP		
8		22	3.8			GM	GRAVELLY SAND and SILT: moist to wet, dark brown, poorly sorted silty sand with gravel	
10		6	7.8			SP	MARL: saturated, brown, fine to coarse grained marl with minor gravel	
12		6	3.4			SP		
14		2	4.8			SP	MARL: saturated, beige, fine to coarse grained marl	
16		8	5.0			PT	PEAT and MARL: saturated, beige marl with interbedded peat	distinct H <sub>2</sub> S odor
18	SB-12-1 (16'-18')	8	23.6			ML	SILTY CLAY: saturated, grey, silty clay with unbroken mollusk shells	
20		0	—			CH	CLAY: wet, grey clay	

Sampling Method: ASTM D-1586

Notes:



ENGINEERS

C&S Engineers, Inc.  
499 Col. Eileen Collins Blvd  
Syracuse, New York 13212  
Phone: (315) 455-2000  
Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	SB-12-1
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION: 419.69 feet	
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 18, 2005	LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: 1.54 feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
-------------	---------------	-----------------------	-------------	-------------------	-------------	---------------------	--------------------------------	---------

22		20		3.0		CH	CLAY: wet, grey clay	
	Bottom of Boring = 22.0 feet							
24								
26								
28								
30								
32								
34								
36								
38								
40								

This information pertains only to this boring and should not be interpreted as being indicative of the site

Sampling Method: ASTM D-1586  
Notes:



ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	SB-13-2
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION:	419.15 feet
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 21, 2005	LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
-------------	---------------	-----------------------	-------------	-------------------	-------------	---------------------	--------------------------------	---------

This information pertains only to this boring and should not be interpreted as being indicative of the site

2		4		2.2		SP	<u>SAND</u> : dry, dark brown, poorly sorted sand (fill)	Very poor recovery over top 6 feet. Augers were pulled after 5' to knock out plug. Brown fill material covered top 2' of augers and tan marl covered bottom 3'. Auger plugged with approximately 6" peat.
		2	▽	1.6		SP	<u>MARL</u> : saturated, beige, very soft, fine to coarse grained marl	
4		2		4.6		PT	<u>PEAT</u> :	
6		0		---				
8		24		27.9		SP	<u>MARL</u> : saturated, beige, fine to coarse grained marl with peat interbeds	
10		24		20.2				
12		24		32.3				
14	SB-13-2 (12'-14')	24		27.2		SP	<u>MARL</u> : saturated, dark tan, fine to coarse grained marl	
16		4		18.4		SP	<u>MARL</u> : saturated, beige marl with disseminated organic material	
18				20.4				
20								distinct H <sub>2</sub> S odor

Sampling Method: ASTM D-1586

Notes:



ENGINEERS

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 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue	MONITORING WELL No. SB-13-2		
CLIENT: Pioneer Midler Ave., LLC	PROJECT No. C81.001.001		
LOCATION: Syracuse, NY	ELEVATION: 419.69 feet		
CONTRACTOR: GeoLogic NY, Inc.	DATE: March 18, 2005	LOGGED BY: Hough	
EQUIPMENT: CME 45	DEPTH TO WATER: feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
22				24.2		SP	MARL: saturated, beige marl with disseminated organic material	
22						CH	CLAY: wet, grey clay Bottom of Boring = 22.0 feet	
24								
26								
28								
30								
32								
34								
36								
38								
40								

This information pertains only to this boring and should not be interpreted as being indicative of the site

Sampling Method: ASTM D-1586

Notes:



ENGINEERS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue	MONITORING WELL No. SB-13-4
CLIENT: Pioneer Midler Ave., LLC	PROJECT No. C81.001.001
LOCATION: Syracuse, NY	ELEVATION: 418.96 feet
CONTRACTOR: GeoLogic NY, Inc.	DATE: March 18, 2005 LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: feet
	TIME START: TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
-------------	---------------	-----------------------	-------------	-------------------	-------------	---------------------	--------------------------------	---------

This information pertains only to this boring and should not be interpreted as being indicative of the site

2		12		0.6		SP	SAND: dry, dark brown, poorly sorted sand (fill)	
4	SB-13-4 (4'-6')	13	▽	0.6				
6		16		3		SM	SAND: dry to saturated, dark grey, very fine to medium sand with several 2" interbeds of fine tan sand or peat	
8		12		3.4				distinct H <sub>2</sub> S odor
10		14		1.4				
12		17		0.6		SP	MARL: saturated, beige, fine to coarse grained marl	
14		4		3.0			marl becomes coarser between 12'-14'	poor recovery
16		4		6.2		SP	MARL: saturated, beige marl with fine interbeds of peat	
18		24		19.4		SP	MARL: saturated, beige, fine to coarse grained marl	
20		0		---				

Sampling Method: ASTM D-1586  
 Notes:



ENGINEERS

C&S Engineers, Inc.  
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 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

PROJECT: Midler Avenue		MONITORING WELL No.	SB-13-4
CLIENT: Pioneer Midler Ave., LLC		PROJECT No.	C81.001.001
LOCATION: Syracuse, NY		ELEVATION: 419.69 feet	
CONTRACTOR: GeoLogic NY, Inc.		DATE: March 18, 2005	LOGGED BY: Hough
EQUIPMENT: CME 45	DEPTH TO WATER: feet	TIME START:	TIME FINISH:

Depth (ft.)	Sample Number	Sample Recovery (in.)	Water Level	PID Reading (ppm)	Graphic Log	Soil Classification	Physical Description Lithology	Remarks
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This information pertains only to this boring, and should not be interpreted as being indicative of the site

22	SB-13-4 (20'-22')	10		7.4		SP	<u>MARL</u> : saturated, beige, fine to coarse grained marl	
24		18		0.6		CH	<u>CLAY</u> : saturated, soft, grey clay	
Bottom of Boring = 24.0 feet								
26								
28								
30								
32								
34								
36								
38								
40								

Sampling Method: ASTM D-1586

Notes:



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

Boring ID: GP-1

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/17/05

Start: 8:45

Finish: 11:00

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
-------------	---------------	-----------------------	---	--------------------------------	---------	-------------

2						2
4						4
6						6
8						8
10	S-1	33"	2.1/ 5.4	Tan, wet, MARL		10
12			44.4/ 48.7	Brown, wet, PEAT		12
14						14
16			660/ -	Brown, wet, PEAT		16
18	S-2	36"		Grey, wet, CLAY with fmc sand and fm gravel lense at 19.6'		18
			2.8/ 5.2			
20				Grey, wet, SILTY CLAY, trace f sand at 19.8'	PID= 58 ppm in sand and gravel layer believed to be due to GW from above Boring Terminated at 20'	20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
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 TECHNICAL RESOURCES  
 OPERATIONS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

Boring ID: GP-2

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/17/05

Start: 11:10

Finish: 11:35

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
-------------	---------------	-----------------------	---	--------------------------------	---------	-------------

2						2
4						4
6						6
8						8
10	S-1	48"	0.3/ 1.1	Black/ Dark Brown, wet, fm SAND (foundry)		10
12			5.0/ 6.9	Tan, wet, MARL		12
14	S-2	20"	11.8/ 54.5	Tan, wet, MARL with f concretions		14
16						16
18	S-3	36"	7.4/ 5.7	Tan, wet, MARL with f concretions and brown, wet, PEAT		18
20			0.6/ 2.7	Grey, wet, CLAY at 19.5'		20
			7.2/ 7.1	Grey, wet, f SAND, some silt, trace f gravel		20

Boring Terminated at 20'

Sampling Method: 4 ft. Macro-core

Notes:





**ENGINEERS**  
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C&S Engineers, Inc.  
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 Phone: (315) 455-2000  
 Fax: (315) 455-9667

Boring ID: GP-3  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 2  
 Date: 03/17/05  
 Start: 13:10  
 Finish: 15:00

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	26"	3.1/ 11.1	Tan, wet, MARL to 11.2'		10
			17.6/ 17.9	Brown, wet, PEAT to 11.7"		
12			---	Tan, wet, MARL		12
14	S-2	28"	1.5/ 2.1	Tan, wet, MARL with fm concretions		14
			3.4/ 10.0	Tan, wet, MARL		
16						16
18	S-3	22"	>1999/ --	Tan, wet, MARL with fm concretions	Solvent odor 16 to 19.5'	18
			>1999/ --	Brown, wet, PEAT		
20			60.1/ 97.3	Grey, wet, CLAY		20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
**DESIGN BUILD**  
**TECHNICAL RESOURCES**  
**OPERATIONS**

C&S Engineers, Inc.  
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 Phone: (315) 455-2000  
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**Boring ID: GP-3**

**Project: Midler Ave. Brownsfield**

**Client: Pioneer Midler Ave., LLC**

**Contractor: Northstar Drilling**

**Equipment: Geoprobe**

Page: 2 of 2

Date: 03/17/05

Start: 13:10

Finish: 15:00

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
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22	S-4	12"	0.9/ 51.6	Grey, wet, SILTY CLAY, little fmc sand and f gravel	Boring Terminated at 22'	22
24						24
26						26
28						28
30						30
32						32
34						34
36						36
38						38
40						40

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
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 OPERATIONS

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 Fax: (315) 455-9667

Boring ID: GP-4  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 1  
 Date: 03/17/05  
 Start: 15:30  
 Finish: 16:45

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	36"	480/ 1000	Tan, wet, MARL	Petroleum sheen and odor evident in loose material from above 8'. PID=101.9	10
12			916/ >1999	Brown, wet, PEAT	Solvent odor 8 to 12'	12
14	S-2	24"	17.9/ 69.7	Tan, wet, MARL, trace peat		14
16						16
18	S-3	24"	8.0/ 16.7	Tan, wet, MARL with fm concretions		18
19.8				Grey, wet, CLAY to 19.8'		19.8
20				Grey, wet, CLAY, little fm sand and gravel	Boring Terminated at 20'	20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
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 OPERATIONS

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Boring ID: GP-5  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 1  
 Date: 03/18/05  
 Start: 8:00  
 Finish: 8:45

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (In.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	28"	11.3/ 16.2	Tan, wet, MARL		10
12			65.1/ 127	Brown, wet, PEAT		12
14	S-2	24"	4.9/ 407	Tan, wet, MARL with fmc concretions to 18.8'	Solvent odor 12 to 18.8'	14
16			398/ 688			16
18	S-3	23"	503/ 228	Brown, wet, PEAT to 19'		18
			6.9/ 17.0	Grey, wet, CLAY to 19.9'		
20				Grey, wet, CLAY, little silt and f sand	Boring Terminated at 20'	20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
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 OPERATIONS

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 Fax: (315) 455-9667

Boring ID: GP-6

Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 1  
 Date: 03/18/05  
 Start: 8:50  
 Finish: 10:15

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
0 - 8				X		0 - 8
8 - 10	S-1	26"	107/302	Tan, wet, MARL, trace fmc concretions, some peat		8 - 10
10 - 14						10 - 14
14 - 16	S-2	28"	7.0/11.1	Tan, wet, MARL with fmc concretions to 15.6'		14 - 16
16 - 18						16 - 18
18 - 19				Tan, wet, MARL, some peat		18 - 19
19 - 19.5				Brown, wet, PEAT to 19'		19 - 19.5
19.5 - 20	S-3	22"	33.4/35.4			19.5 - 20
			1.9/4.1	Grey, wet, CLAY		
Boring Terminated at 20'						20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
 DESIGN BUILD  
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 OPERATIONS

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 Fax: (315) 455-9667

Boring ID: GP-7

Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/18/05

Start: 10:30

Finish: 12:30

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
-------------	---------------	-----------------------	---	--------------------------------	---------	-------------

2						2
4						4
6						6
8						8
10	S-1	48"	16.7/ 13.7	Tan, wet, MARL, little peat		10
12						12
14	S-2	28"	2.5/ 3.5	Tan, wet, MARL with fmc concretions		14
16						16
18	S-3	22"	8.8/ 3.8	Tan, wet, MARL and brown, wet, PEAT to 18.9'		18
20			0.9/ 1.2	Grey, wet, CLAY		20

Boring Terminated at 20'

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
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 OPERATIONS

C&S Engineers, Inc.  
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Boring ID: GP-8

Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 1  
 Date: 03/18/05  
 Start: 13:10  
 Finish: 14:10

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	34"	5.6/ 169.5	Tan, wet, MARL	Slight solvent odor 8 to 12'	10
12			132.1/ 253.0	Brown, wet, PEAT		12
14	S-2	22"	2.1/ 55.3	Tan, wet, MARL with fmc concretions		14
16						16
18	S-3	19"	1.9/ 6.3	Tan, wet, MARL		18
20			0.4/ 0.7	Grey, wet, CLAY	Boring Terminated at 20'	20

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
 DESIGN BUILD  
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 OPERATIONS

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Boring ID: GP-9

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/18/05

Start: 14:20

Finish: 15:15

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
0 - 8				X		0 - 8
8 - 10	S-1	24"	4.5/ 11.4	Tan, wet, MARL and brown, wet, PEAT		8 - 10
10 - 12			0.1/ 0.3			10 - 12
12 - 14	S-2	24"	0.0/ 0.4	Tan, wet, MARL with fm concretions		12 - 14
14 - 16			1.9/ 1.5			14 - 16
16 - 18	S-3	30"	1.0/ 1.8	Tan, wet, MARL and brown, wet, PEAT		16 - 18
18 - 19.7			0.6/ 1.0	Grey, wet, CLAY to 19.7'		18 - 19.7
19.7 - 20				Grey, wet, CLAY, little l gravel		19.7 - 20
Boring Terminated at 20'						20

Sampling Method: 4 ft. Macro-core

Notes:





**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

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Boring ID: GP-10

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 3/18/05 & 3/21/05 (see notes)

Start: 15:30 & 8:30

Finish: 17:00 & 10:00

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
0						0
2						2
4						4
6						6
8						8
8.0	S-1	48"	0.0/ 0.1	Black/ Dark Brown, wet, fm SAND (foundry)		8
9.3			5.3/ 4.4	Tan, wet, MARL, little peat		9.3
10.7			3.4/ 2.7	Brown, wet, PEAT, little marl		10.7
12.1			2.5/ 1.9	Tan, wet, MARL		12.1
12						12
14	S-2/ S-5	24"	0.4/ 1.6	Tan, wet, MARL with fm concretions		14
15.4			10.9/ 2.0	Tan, wet, MARL and brown, wet, PEAT		15.4
16						16
18	S-3/ S-5	30"	2.4/ 1.6	Grey, wet, CLAY		18
20						

Boring Terminated at 20'

Sampling Method: 4 ft. Macro-core

Notes: Revisited boring on 3`



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

C&S Engineers, Inc.  
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 Phone: (315) 455-2000  
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Boring ID: GP-11

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/21/05

Start: 10:00

Finish: 11:15

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	15"	0.8/ 3.6	Tan, wet, MARL		10
12						12
14	S-2	26"	0.5/ 1.6	Tan, wet, MARL with fmc concretions		14
16			1.0/ 6.4	Tan, wet, MARL, some peat		16
18	S-3	21"	0.6/ 1.1	Grey, wet, CLAY		18
20			0.7/ 1.7	Grey, wet, CLAY		20
Boring Terminated at 20'						

Sampling Method: 4 ft. Macro-core

Notes:



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

C&S Engineers, Inc.  
 499 Col. Eileen Collins Blvd  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

Boring ID: GP-12

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/21/05

Start: 11:15

Finish: 12:05

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (In.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	26"	5.7/ 78.2	Tan, wet, MARL		10
12						12
14	S-2	24"	1.1/ 2.8	Tan, wet, MARL with fmc concretions		14
16			17.8/ 65.1			16
18	S-3	17"	16.2/ 74.1	Tan, wet, MARL and brown, wet, PEAT		18
20			0.9/ 7.4	Grey, wet, CLAY		20
Boring Terminated at 20'						

Sampling Method: 4 ft. Macro-core

Notes:



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Boring ID: **GP-13**  
 Project: **Midler Ave. Brownsfield**  
 Client: **Pioneer Midler Ave., LLC**  
 Contractor: **Northstar Drilling**  
 Equipment: **Geoprobe**

Page: 1 of 1  
 Date: 03/21/05  
 Start: 13:05  
 Finish: 14:00

C&S Representative: **Thomas Wirickx**

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
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2				(Empty section with diagonal lines)		2
4						4
6						6
8						8
10	S-1	30"	109.3/ 236.3	Tan, wet, MARL, trace peat		10
12						12
14	S-2	12"	13.8/ 8.6	Tan, wet, MARL with fm concretions		14
16			5.1/ 8.3			16
18	S-3	28"	10.9/ 31.7	Brown, wet, PEAT, trace marl		18
20			2.8/ 2.6	Grey, wet, CLAY		20

Boring Terminated at 20'

Sampling Method: 4 ft. Macro-core  
 Notes:



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Boring ID: GP-14

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 1

Date: 03/21/05

Start: 14:05

Finish: 15:10

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (In.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6						6
8						8
10	S-1	23"	7.9/ 10.1	Tan, wet, MARL		10
12						12
14	S-2	35"	23.1/ 29.7	Tan, wet, MARL, trace peat		14
16						16
18	S-3	22"	1.7/ 2.3	Tan, wet, MARL with f concretions		18
			27.3/ 30.2	Brown, wet, PEAT		
			1.9/ 1.5	Grey, wet, CLAY		
20					Boring Terminated at 20'	20

Sampling Method: 4 ft. Macro-core

Notes:



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Boring ID: GP-15

Project: Midler Ave. Brownsfield

Client: Pioneer Midler Ave., LLC

Contractor: Northstar Drilling

Equipment: Geoprobe

Page: 1 of 2

Date: 03/21/05

Start: 15:20

Finish: 16:20

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6	S-1	36"	1.7/ 2.7	Brown, moist to wet, fmc SAND, little slag		6
8			0.5/ 1.8			8
10	S-2	28"	0.8/ 2.1	Brown, wet, PEAT		10
12			1.8/ 2.9			12
14	S-3	27"	1.2/ 4.9	Tan, wet, MARL		14
16						16
18	S-4	16"	5.8/ 7.9	Tan, wet, MARL with fm concretions		18
20						20

Sampling Method: 4 ft. Macro-core

Notes: Depth measurements given below wood floor grade, actual soil depth 3.0 ft. below wood floor



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Boring ID: GP-15  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 2 of 2  
 Date: 03/21/05  
 Start: 15:20  
 Finish: 16:20

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
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22	S-5	36"	10.1/ 18.9	SIMILAR- questionable recovery		22
24			600/ 1450			24
26	S-6	15"	4.3/ 5.9	Grey, wet, CLAY, trace f gravel		26
28					Boring Terminated at 27'	28
30						30
32						32
34						34
36						36
38						38
40						40

Sampling Method: 4 ft. Macro-core

Notes: Depth measurements given below wood floor grade, actual soil depth 3.0 ft. below wood floor



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Boring ID: GP-16  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: Northstar Drilling  
 Equipment: Geoprobe

Page: 1 of 1  
 Date: 03/21/05  
 Start: 16:30  
 Finish: 17:15

C&S Representative: Thomas Wirickx

Depth (ft.)	Sample Number	Sample Recovery (in.)	PID Reading (ppm) Open Air/ Zero Headspace	Physical Description Lithology	Remarks	Depth (ft.)
2						2
4						4
6	S-1	29"	1.8/2.4			6
8				Tan, wet, MARL		8
10	S-2	39"	3.4/ 10.0			10
12				Brown, wet, PEAT		12
14	S-3	21"	6.9/11.1			14
16				Tan, wet, MARL		16
18				Tan, wet, MARL, trace peat		18
20	S-4	22"	>1999/ —			20
				Tan, wet, MARL and brown, wet, PEAT to 19.9'		
				Grey, wet, CLAY		
					Boring Terminated at 20'	

Sampling Method: 4 ft. Macro-core

Notes:





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-1	
<b>Client:</b> Pioneer Midler, LLC			
<b>Location:</b> Syracuse, NY		<b>Project No.:</b> C81.002.001	
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 27, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> -421.54	<b>Depth to Water:</b> 4.22

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
16				PT		pushed directly to 16'	
18	DW-1 S-1 (16-20)		42	OH		PEAT: Moist peat	
20				CL		CLAY: Moist, grey clay with interbedded fine sand and silt beds below 19'	
22	DW-1 S-2 (20-24)		36	SM		SAND: Wet, grey, fine sand	
24							
26	DW-1 S-3 (24-27)		24				
28	DW-1 S-4 (27-28)						
30	DW-1 S-5 (28-32)		24	SP		SAND & GRAVEL: grey, fine sand and gravel some silt grading downward to reddish-brown, fine sand, little coarse sand, little fine to medium gravel, trace of silt	
32							GW sample DW-1-32.2
34	DW-1 S-6 (32-36)		24				

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
30% - 40%	SOME	SAND	0.075 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-1	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 27, 2005
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 27, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> -421.54	<b>Depth to Water:</b> 4.22

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
36	DW-1 S-7 (36-37.5)	[Vertical bars]	6	ML	[Dotted pattern]	TILL: reddish-brown, silt, some fine sand and a trace of fine gravel	GW sample DW-1-37
38							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.075 - 0.425 mm
1% - 10%	TRACE	Medium	0.425 - 2.00 mm
		Fine	2.00 - 4.75 mm
		GRAVEL	4.75 - 75 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 26, 2005
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 26, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Eastng:</b>	<b>Surface Elevation:</b> -420.33	<b>Depth to Water:</b> 2.80

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (In.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GC		FILL: Dry, topsoil and crusher run	
2	DW-2 S-1 (0-4)		36	SP		SAND: Damp, dark brown, fine to medium sand, little slag	
4				GM		SAND: Damp, black fine to medium sand and slag	
6	DW-2 S-2 (4-8)		24	PT		PEAT: Moist peat little marl	
8				PT		PEAT: Moist peat and marl	
10	DW-2 S-3 (8-12)		36	SP		MARL: Moist marl with a trace of peat	
12				PT		PEAT: Moist peat with a trace of marl	
14	DW-2 S-4 (12-16)		8	SP		MARL: Wet, beige, marl with a trace of peat	
16							
18			0			no recovery	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
20% - 40%	SOME	SAND	0.075 - 0.425 mm
10% - 20%	LITTLE	Coarse Medium	0.425 - 2.000 mm
1% - 10%	TRACE	Fine	2.000 - 4.750 mm
		GRAVEL	4.750 - 75.000 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 26, 2005
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> ~420.33	<b>Depth to Water:</b> 2.80

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	DW-2 S-5 (20-24)	42	42	SP		MARL: Wet, beige, well cemented, marl	
				MH		SILTY CLAY: Grey, wet, silty clay	
				ML		SILTY SAND: Grey, wet, silty fine sand	
24				MH		SILTY CLAY: Grey, wet, silty clay	
26	DW-2 S-6 (24-28)	36	36	GP		SAND & GRAVEL: Grey, wet, medium to coarse sand and fine gravel coarsening downward to medium gravel	
28				SC		SILTY SAND: Grey, wet, silty fine sand with a trace of clay	
30	DW-2 S-7 (28-32)	48	48				
32				MH		SILTY CLAY: Grey, wet silty clay fines downward to clay little silt	
34	DW-2 S-8 (32-36)	48	48				
36							
38	DW-2 S-9 (36-40)	24	24	SM		SANDY SILT: Grey, wet, fine sandy silt with a trace of clay coarsening downward to silty fine sand	
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
30% - 40%	SOME	SAND	
10% - 30%	LITTLE	Coarse Medium Fine	0.075 - 0.42 mm 0.42 - 2.00 mm 2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> July 26, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> -420.33	<b>Depth to Water:</b> 2.80

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
42	DW-2 S-10 (40-43)		24	SP		SAND: Grey, wet, fine, medium and coarse sand with a trace of fine gravel	GW sample DW-2
44						Drove to refusal. No sample obtained.	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
30% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-3	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 25, 2005
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> ~418.76	<b>Depth to Water:</b> 5.25

Depth (ft.)	Sample Number	PID Reading (ppm) <small>2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0</small>	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GC		FILL: Asphalt and Crusher Run	
2	DW-3 S-1 (0-4)		24	SP		SAND: Black, moist fine sand trace of slag. Slag content and organic percentage increases downward	
4							
6	DW-3 S-2 (4-8)		36				
8				PT		PEAT: Dark brown to black, wet, peat	
10	DW-3 S-3 (8-12)		36				
12				SP		MARL: Wet, beige, marl	
14	DW-3 S-4 (12-16)						
16							
18	DW-3 S-5 (16-20)						
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.075 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.75 mm
		GRAVEL	4.75 - 75 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-3	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 25, 2005
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> ~418.76	<b>Depth to Water:</b> 5.25

Depth (ft.)	Sample Number	PIV Reading (ppm)	Recovery (In.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	DW-3 S-6 (20-24)		36	CL		SILTY CLAY: Wet, grey silty clay grading downward to clay with little silt	
24							
26	DW-3 S-7 (24-28)		36	CL		CLAY: Reddish-brown clay, little silt, soft, silt content increases downward	
28							
30	DW-3 S-8 (28-32)		36				
32							
34	DW-3 S-9 (32-36)		48				
36							
38	DW-3 S-10 (36-40)		48				
40				CL		CLAY: reddish-brown silty clay with alternating	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
30% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.075 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.75 mm
		GRAVEL	4.75 - 75 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-3	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> CME-55 w/GP	<b>Date:</b> July 25, 2005
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> -418.76	<b>Depth to Water:</b> 5.25

Depth (ft.)	Sample Number	PID Reading (ppm) <small>0 10 20 30 40 50 60 70 80 90 100</small>	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
42	DW-3 S-11 (40-44)		48			0.25' layers of fine sand and silt	
44	DW-3 S-12 (44-48)		48				
	DW-3 S-13 (48-52)		48				
			0			no recovery	
	DW-3 S-14 (56-57.2)		14	<b>ML</b>		Drove directly to refusal at 57.2'. No sample obtained	GW sample DW-3

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.075 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





C&S Engineers, Inc  
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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> July 28, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Easting:</b>	<b>Surface Elevation:</b> ~420.10	<b>Depth to Water:</b> 7.77

Depth (ft.)	Sample Number	PTD Reading (ft.)	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GP		FILL: 2' Asphalt - dry, fine sand and fine gravel little silt	
2			30	SP		SAND: Damp to wet, dark brown to black fine sand and slag with a trace of fine gravel & brick	
4				PT		PEAT: Moist peat little marl	
6			24	PT		PEAT: Moist peat little marl	
8				SP		MARL: Wet, beige, marl with fine concretions	
10			24	SP		MARL: Wet, beige, marl with fine concretions	
12				SP		MARL: Wet, beige, marl and peat	
14			42	SP		MARL: Wet, beige, marl and peat	
16				SP		MARL: Wet, beige, marl and peat	
18			36	SP		MARL: Wet, beige, marl and peat	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.075 mm
30% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> July 28, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Eastng:</b>	<b>Surface Elevation:</b> ~420.10	<b>Depth to Water:</b> 7.77

Depth (ft.)	Sample Number	PID Reading (ppm) Asst. 1000 100 10 1 0.1	Recovery (in.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22			48	CL	[Symbolic representation of clay]	SILTY CLAY: Wet, grey, silty clay becoming reddish-brown at 19.7'	
24							
26			24	SP	[Symbolic representation of sand]	SAND: Brown, wet, fine to coarse sand and fine gravel with a trace of silt	GW sample DW-4-28
28							
30			22				
32				ML	[Symbolic representation of silt]	SILT: Reddish-brown, wet, silt with a trace of clay	GW sample DW-4-32
34			36	SM	[Symbolic representation of silty sand]	SILTY SAND: 1"-3" beds of brown, wet, fine to coarse sand and fine gravel with a trace of silt alternating with 1"-3" beds of reddish brown silt with a trace of clay	
36							
38			36	ML	[Symbolic representation of clayey silt]	CLAYEY SILT: Reddish-brown, wet, clayey silt	
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
30% - 40%	SOME	SAND	
10% - 30%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> DW-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> CME-55 w/GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> July 28, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b>	<b>Eastng:</b>	<b>Surface Elevation:</b> ~420.10	<b>Depth to Water:</b> 7.77

Depth (ft.)	Sample Number	PID Reading (ppm) 0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0	Recovery (In.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
42			30	MH	[Graphic Log Pattern]	SILT: Reddish-brown, wet, silt	GW sample DW-4-43.1
44				ML	[Graphic Log Pattern]	TILL: Reddish-brown, hard, sandy silt some fine gravel, trace of clay	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

UNIFIED SOIL CLASSIFICATION SYSTEM			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> DAW-1	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> August 22-25, 2005	
<b>Contractor:</b> Lyon Drilling	<b>Equipment:</b> CME 55	<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA

Depth (ft.)	Well Schematic	Well Construction Details
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	At Grade Material		Grout		Sand
	Concrete		Bentonite		Groundwater

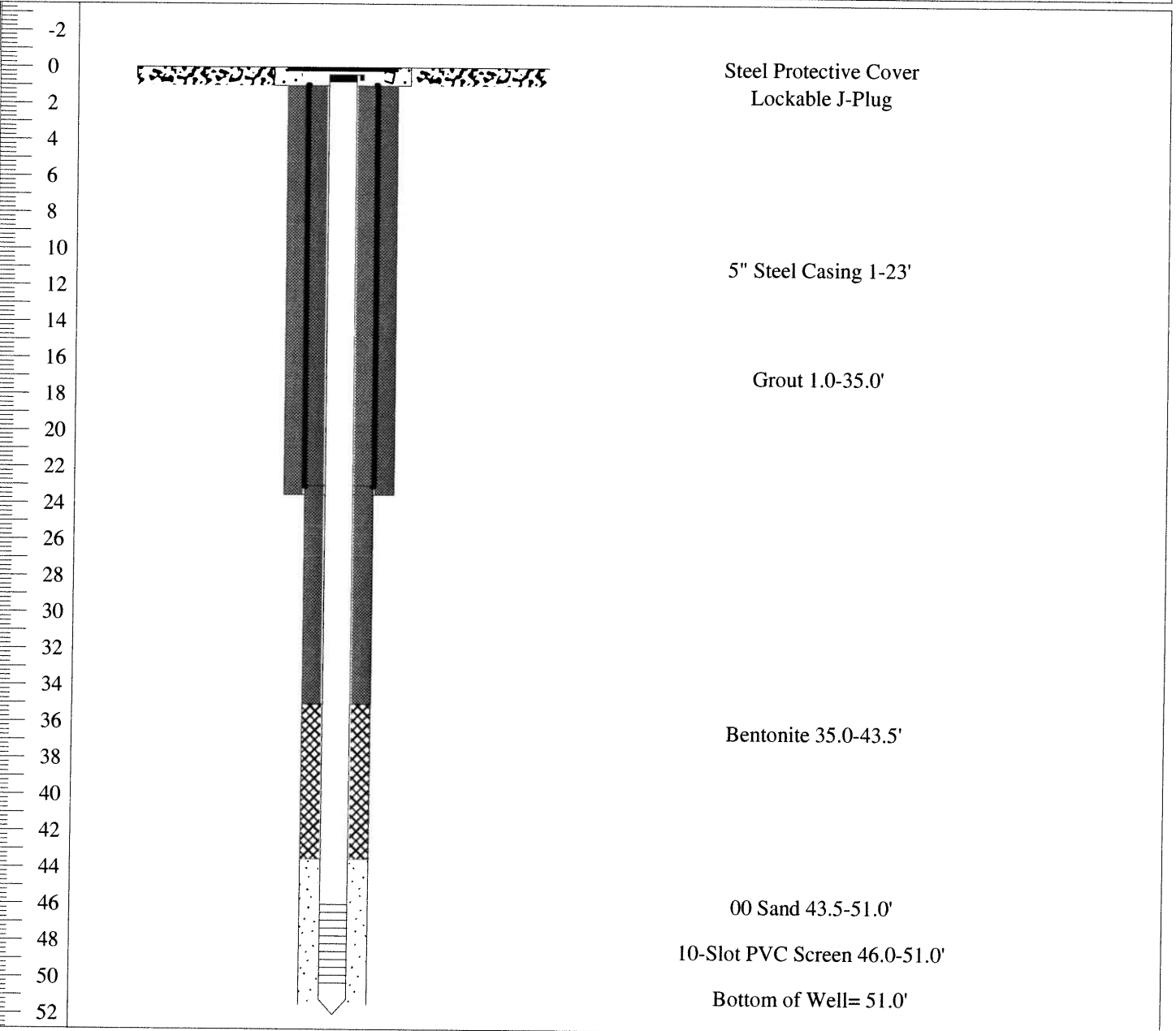


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> DAW-2	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> August 22-25, 2005	<b>Logged By:</b> T. Wirickx
<b>Contractor:</b> Lyon Drilling	<b>Equipment:</b> CME 55	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA		

Depth (ft.)	Well Schematic	Well Construction Details
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	At Grade Material		Grout		Sand
	Concrete		Bentonite		Groundwater

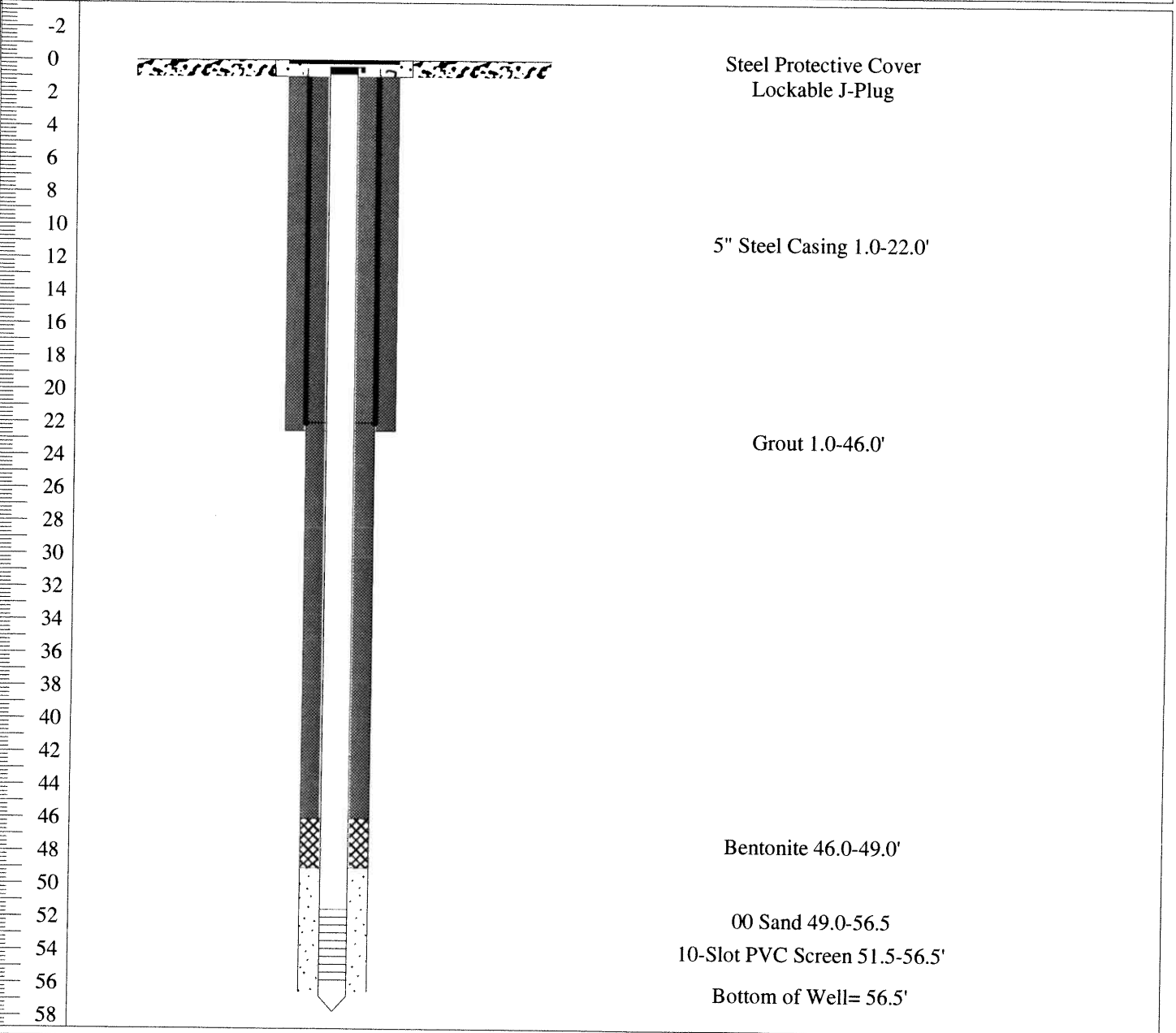


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave <b>Client:</b> Pioneer Midler, LLC.		<b>Monitoring Well ID:</b> <b>DAW-3</b>	
<b>Location:</b> Midler Ave.		<b>Project No.:</b> C81.002.001	
<b>Contractor:</b> Lyon Drilling	<b>Equipment:</b> CME 55	<b>Date:</b> August 22-25, 2005	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA

Depth (ft.)	Well Schematic	Well Construction Details
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	At Grade Material		Grout		Sand
	Concrete		Bentonite		Groundwater

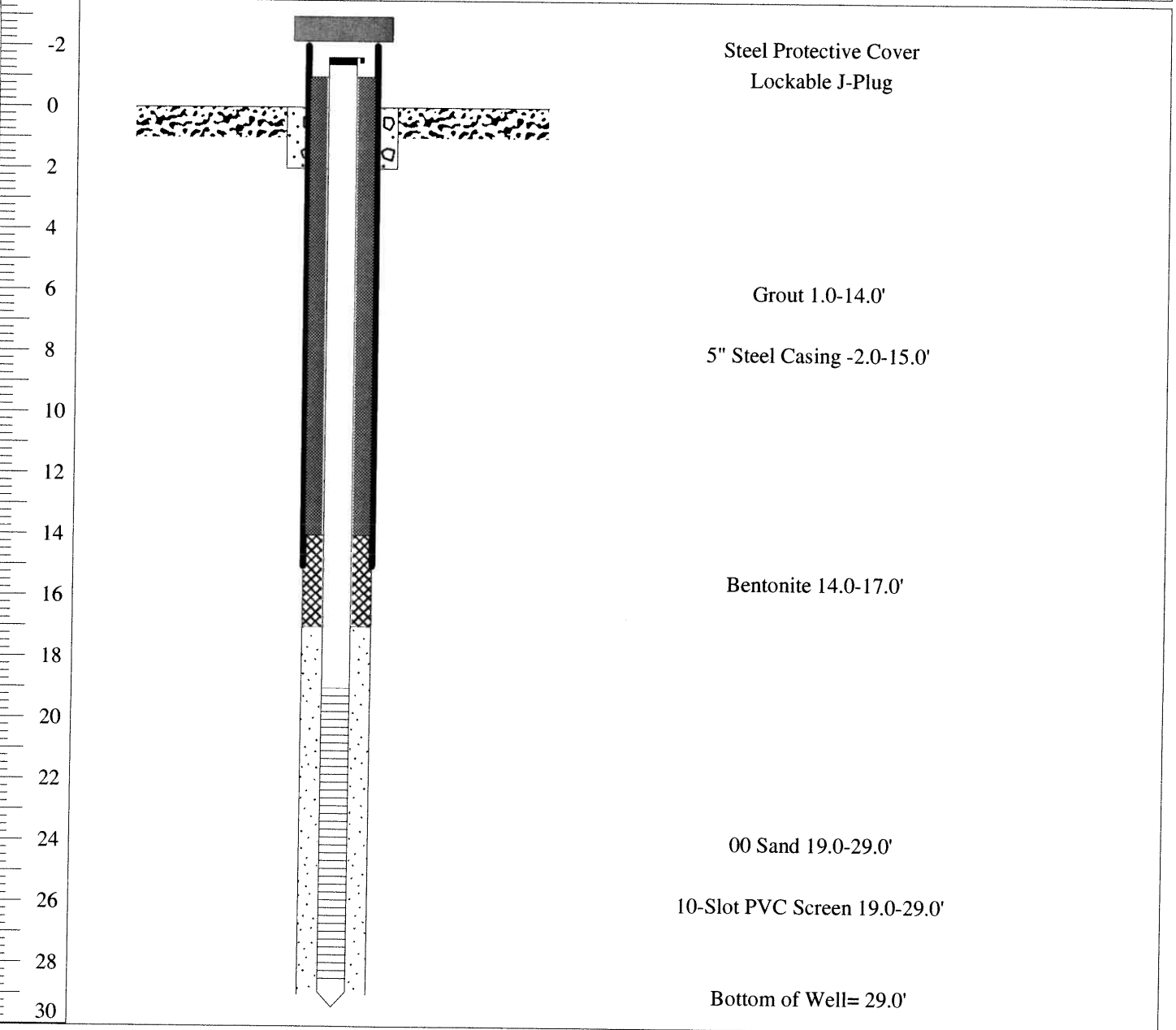


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> DAW-4	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> April 14, 2006	<b>Logged By:</b> T. Wirickx
<b>Contractor:</b> North Star	<b>Equipment:</b> ATV Rig	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA		

Depth (ft.)	Well Schematic	Well Construction Details
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	At Grade Material		Grout		Sand
	Concrete		Bentonite		Groundwater



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPD-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/6/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.98	<b>Depth to Water:</b> ~2.7

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks	
0	S-1	4.7	3.8	GM		Grey, dry, SILT, fmc SAND and fc GRAVEL	Sampled 7-9'	
2		4.5		SP		Black and dark brown, damp, f SAND		
4	S-2	9.2	3.0	ML		White, wet, MARL		
6				PT		Dark brown to black, wet, PEAT		
8				SM		Beige, wet, MARL, f concretions		
8	S-3	10.6	4.0	SM		Beige, wet, MARL, f concretions, trace peat		
10		1.0		PT		Dark brown, wet, PEAT		
12	S-4	0.4	3.0	GM		Beige, wet, MARL, fm concretions		Sampled 11-14'
14		0.6		PT		Brown, wet, PEAT, trace marl		
16	S-5	NR	NR	CL		NO RECOVERY		Terminated Boring at 17'
18	S-6	NC	1.0	CL		Grey, moist, CLAY, some silt, little fmc sand and f gravel		

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 30%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-2</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/6/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.38	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Grey, dry, SILT, fmc SAND and fc GRAVEL	
2	S-1	10.2	3.0	SP		Dark brown, dry to damp, fmc SAND, some slag	
4		1.1		PT		Brown, moist, PEAT, trace shells	
4				ML		White, wet, MARL, some peat	
6	S-2	114	3.0	ML		Beige, wet, MARL	
8		304					
8	S-3	2074	3.8	PT		Brown, moist, PEAT, trace shells	
10		38.8					
12	S-4	107	3.5	GP		Beige, wet, MARL, fmc concretions	
14		927		ML		Beige, wet, MARL, some peat, trace shells	
16	S-5	241	4.0	PT		Dark brown, wet, PEAT, trace marl	
16		16.5		CH		Grey, moist, CLAY	
18							Sampled 15.8-17.5'
20							Terminated boring at 17.5'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-3</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/6/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.60	<b>Depth to Water:</b> ~2.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	396	2.7	GP		Grey, wet, fmc SAND and fm GRAVEL, little silt	
				GM		White, wet, MARL, some slag	
				ML		White, wet, MARL	
4				PT		Dark brown, wet, PEAT	
6	S-2	>9999	3.4	ML		Beige, wet, MARL, some peat	Solvent odor, sampled 4-8'
10	S-3	4284	.5	ML		Beige, wet, MARL	Solvent odor
14	S-4	2394	1.5	SM		Beige, wet, MARL, f concretions	Solvent odor
				PT		Brown, wet, PEAT, little marl	
16	S-5	742	1.8	CH		Reddish grey, wet, CLAY, trace silt	Solvent odor, sampled 15-17'
				CL		Reddish grey, wet, CLAY, little silt, fmc sand and f gravel	
18	S-6	>2000	2.2	GP		Grey, wet, fmc SAND and f GRAVEL, trace silt and c gravel	Solvent odor, sampled 17-20'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.42 - 2.00 mm
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-3</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/6/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.60	<b>Depth to Water:</b> ~2.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-7	203	3.0	SP		Brown, wet, fmc SAND	Slight solvent odor
		67.7					
24	S-8	24	1.5	SP		Brown, wet, fm SAND	Sampled 23-26'
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-4</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/7/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.69	<b>Depth to Water:</b> N/A

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	Refusal at 3.1'
2	S-1	11.1	0.7	GP		Grey, moist, fmc SAND, f GRAVEL, CONCRETE, BRICK, AND WOOD	
4							
6							
8							
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-5	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/7/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.86	<b>Depth to Water:</b> ~2.7

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	4.1	3.7	GP		Dark brown, dry, fmc SAND, fc GRAVEL, CONCRETE and SLAG	
		3.2		GP		Light brown, dry, fmc SAND and f GRAVEL	
				SP		Dark brown and black, moist to wet, fmc SAND, little slag	
4	S-2	4.2	3	PT		Dark brown, moist, PEAT, trace marl and shells	
				ML		Beige, wet, MARL, trace peat	
6				PT		Dark brown, moist, PEAT	
				GM		Beige, wet, MARL, fm concretions	
8				PT		Brown, wet, PEAT	
10	S-3	10.2	1.5	ML		Beige, wet, MARL, trace peat	
12				SM		Beige, wet, MARL, f concretions	
14	S-4	3.1	3.5	PT		Brown, wet, PEAT, little marl	Sampled 14-15.2'
		54.5		CH		Grey, wet, CLAY, trace silt	
16	S-5	9.9	1.5	GP		Grey, wet, fmc SAND and fc GRAVEL, little clay and silt	Sampled 16-18'
18		5.1					
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-6</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/7/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.86	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks	
0						CONCRETE		
2	S-1	2.5	3.5	GP		Grey, dry to damp, fmc SAND and fc GRAVEL, little silt	Sampled 4-8'	
				SP		Dark brown, moist, fm SAND and SLAG		
				SP		Black, wet, f SAND		
4				ML		Beige, wet, MARL, trace peat		
6	S-2	8.7	4	GP		Beige, wet, MARL, fmc concretions		
8		8.2		PT		Beige and brown, wet, MARL and PEAT		
10	S-3	4.4	2	ML		Beige, wet, MARL		
12				GP		Beige, wet, MARL, fmc concretions		
14				SM		Beige, wet, MARL, f concretions		
14	S-4	7.1	3.8	PT		Dark brown, wet, PEAT, little marl, trace shells		Sampled 12-13'
16		5.6		CH		Grey, moist, CLAY		Sampled 13-15'
18								Terminated boring at 15'
20								

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPD-7</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
		<b>Date:</b> 9/7/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.86	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	1.8	3	GM		Grey, damp, fmc SAND and fc GRAVEL, little silt	Sampled 4-8'
		2.7		SP		Dark brown and black, moist, f SAND and SLAG	
				PT		Dark grey, moist, PEAT	
4				ML		White, wet, MARL	
6	S-2	16.7	4	ML		Beige, wet, MARL, trace organics	
8	S-3	0.8	0.5	ML		Beige, wet, MARL, trace peat	
10	S-4	0.7	0.2	GP		Beige, wet, MARL, fmc concretions	
10							Refusal at 9.6'
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-8</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/7,8&20/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.86	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks	
0						CONCRETE		
2	S-1	1.8	3.5	GP		Grey, dry, fmc SAND and fc GRAVEL, little brick	Sampled 4-7.6'	
				SP		Black, moist to wet, f SAND		
4		3.3		PT		Brown, moist, PEAT		
6	S-2	18.5	3.5	ML		Beige, wet, MARL, trace peat		
8		3.5		PT		Dark brown, moist, PEAT		
	S-3	2.4	1	SM		Beige, wet, MARL, f concretions, some peat		
10	S-4	0.8	1					Refusal at 10.1', augered to 11.5'
12	S-5	2.3	2.5	GP		Beige, wet, MARL, fmc concretions		
14				PT		Brown, wet, PEAT, little marl		
16				CH		Grey, moist, CLAY, trace f gravel		
18	S-6	1.0	2.5					
		0.7		GP		Grey, wet, fmc SAND and f GRAVEL, trace silt		
20							Terminated boring at 19'	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium SAND	0.42 - 2.00 mm
1% - 10%	TRACE	Fine SAND	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-9</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.86	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	0.8	2	GP		Grey, damp to wet, fmc SAND and fc GRAVEL	
4	S-2		NR			NO RECOVERY	
6							Refusal at 5.1'
8							
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-10</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.78	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SM		Dark brown, moist, SILT, some f sand	
2	S-1	8.9	3	SP		Brown, moist, f SAND	
4				SP		Black, wet, f SAND, trace slag and silt	
6	S-2	22.8	3	PT		Beige and brown, wet, MARL and PEAT	Sampled 4-7
6				ML		Beige, wet, MARL	
8							
10	S-3	19.5	4	SM		Beige, wet, MARL, f concretions	
12							
14	S-4	17.9	3	SM		Beige, wet, MARL, f concretions, trace shells	
16							
16	S-5	9.4	3.5				
18				CL		Grey to reddish grey, wet, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-11	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.68	<b>Depth to Water:</b> -3.7

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GP		Brown, dry, fmc SAND and f GRAVEL, little organics	
2	S-1	2.7	3	SP		Light brown, damp, f SAND	
4				SP		Dark brown, moist to wet, f SAND, ASH, GLASS and SLAG	
6	S-2	33.8	2.7	ML		Beige, wet, MARL, trace shells and organics	
8				SM		Beige, wet, MARL, f concretions, trace shells and organics	
10	S-3	13.1	3.5				
12				GM		Beige, wet, MARL, fm concretions, trace shells	
14	S-4	14.6	3				
16				PT		Beige and brown, wet, MARL and PEAT	
18	S-5	22.6	3.5				
		0.2		CL		Grey, wet, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-12</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
		<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.88	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Brown, dry, SILT, fmc SAND, and f GRAVEL	
1				SP		Light brown, damp, f SAND	
2	S-1	2.1	3	SP		Black, moist, f SAND, trace slag and glass	
3				ML		White, moist, ASH	
4				PT		Dark brown, wet, PEAT	
5	S-2	46.2	3	ML		Beige, wet, MARL, trace organics and shells	Sampled 4-7'
6							
7				SM		Beige, wet, MARL, f concretions	
8	S-3	7.1	3.5				
9							
10				SM		Beige, wet, MARL, f concretions, trace organics	
11	S-4	13.5	3.5				
12							
13				PT		Dark brown, wet, PEAT, trace shells	Sampled 15-16'
14		9.0					
15	S-5	0.3	3	CH		Grey, wet, CLAY	Sampled 16-19'
16							
17							
18							
19	S-6	0.3	2	CL		Reddish grey, wet, SILTY CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-12</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.88	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22							Terminated boring at 21'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-13</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.98	<b>Depth to Water:</b> ~5.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Brown, dry, SILT, fmc SAND, and f GRAVEL	Sampled 4-7'
2	S-1	1.3	3	SP		Light brown, brown and black, damp to moist, f SAND, little slag and glass	
4							
6	S-2	10.2	3.5	ML		White to beige, wet, MARL, trace shells	
8							
10	S-3	5.0	3	SM		Beige, wet, MARL, f concretions, trace shells	
12							
14	S-4	2.7	3	SM		Beige, wet, MARL, f concretions, trace organics and shells	
16							
16	S-5	1.8	3	PT		Dark brown, moist, PEAT	
17				ML		Greyish white, moist, MARL, trace shells	
18		0.3		CH		Grey, moist, CLAY	
19				CL		Reddish grey, moist, SILTY CLAY	
20						Terminated boring at 19'	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 30%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-14</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/8/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.58	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Brown, dry, SILT, fmc SAND, and f GRAVEL	
2	S-1	0.2	3.5	SP		Dark brown, damp, f SAND	
				SP		Light brown, moist, f SAND	
4				SP		Black, wet, f SAND	
6	S-1	27.3	2.3	SP		Black, wet, f SAND, trace slag and glass	
8	S-3	90.2	2				Sampled 7-9.8'
10		9.4		ML		Beige, wet, MARL	
12	S-4	4.3	2.5	GP		Beige, wet, MARL, fmc concretions	
14							
16	S-5	18.3	3	ML		Beige, wet, MARL, little peat	Sampled 15-17.5'
18		0.4		CH		Grey, moist, CLAY	
				CL		Reddish grey, wet, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-15</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.98	<b>Depth to Water:</b> ~3.6

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	0.6	4	MH		Brown, dry, SILT, trace f gravel and organics	Terminated boring at 19'
1				SP		Dark brown, dry, f SAND, trace f gravel	
2				SP		Light brown, moist, f SAND	
3				SP		Dark brown, moist to wet, fmc SAND and SLAG	
4				SP		Black, wet, f SAND	
6	S-2	19.2	2.7	SP		Black, wet, f SAND, trace slag	
8	S-3	9.8	3.5	SM		Beige, wet, MARL, f concretions, trace organics and shells	
12				PT		Dark brown, moist, PEAT	
14				ML		Beige, wet, MARL	
16	S-5	9.1	3.5	SM		Beige, wet, MARL, f concretions	
17				PT		Dark brown, wet, PEAT, trace marl	
18		0.4		ML		Greyish white, moist, MARL, trace shells	
19				CH		Grey, moist, CLAY, trace shells	
20				CL		Reddish grey, wet, SILTY CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-16</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.18	<b>Depth to Water:</b> ~3.2

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Brown, dry, SILT, fmc SAND, and f GRAVEL, trace organics	
2	S-1	0.5	3.4	SP		Dark brown and black, damp, fmc SAND, f GRAVEL, BRICK and SLAG	
				SP		Light brown, damp, f SAND	
				SP		Black, damp, f SAND	
				SP		Orange, wet, f SAND	
				SP		Black, wet, f SAND	
6	S-2	13.4	3	SP		Black, wet, f SAND, trace silt and slag	Sampled 4-7'
8				SP		Black, wet, fmc SAND, f GRAVEL, and SLAG	
10	S-3	8.8	2				
12				SM		Beige, wet, MARL, f concretions	Sampled 11-15'
14	S-4	8.6	2.5				
16				PT		Dark brown, moist, PEAT, little marl	
18	S-5	2.9	3	CH		Grey, moist, CLAY	
		0.4		CL		Reddish grey, moist, CLAY, little silt	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-17</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.68	<b>Depth to Water:</b> ~2.6

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Brown, dry, SILT and fmc SAND, trace f gravel	
2	S-1	2.4	3	SP		Black and brown, damp, fm SAND, trace slag, ash and metal	
				SP		Light brown, moist to wet, f SAND	
4				SP		Black, wet, f SAND, little slag and glass	
6	S-2	2.3	3	SP		Black, wet, f SAND, trace slag	
8							Sampled 7-11'
10	S-3	49.5	4				
12				SM		Beige, wet, MARL, f concretions	Terminated boring at 19'
14	S-4	46.2	3				
16				ML		Beige, wet, MARL, trace peat	
18	S-5	3.1	3.3	CH		Grey, moist, CLAY	
		0.4		CH		Reddish grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPD-18</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.04	<b>Depth to Water:</b> ~3.7

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				<b>SM</b>		Dark brown, damp, SILT and fmc SAND, trace organics	Sampled 4-7'                Terminated boring at 19'
2	S-1	2.8	3.5	<b>SP</b>		Dark brown, damp to wet, f SAND	
4				<b>PT</b>		Dark brown, moist, PEAT	
6	S-2	36.2	3	<b>ML</b>		Beige, wet, MARL	
8				<b>SM</b>		Beige, wet, MARL, f concretions	
10	S-3	48.1	3.7				
12				<b>ML</b>		Beige, wet, MARL	
14	S-4	75.1	3.5				
16		29.6		<b>CH</b>		Grey, moist, CLAY	
18	S-5	0.6	3.5	<b>CL</b>		Grey, wet, SILTY CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-19</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.29	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks	
0								
2	S-1	30.4	3	GP		Grey, damp, fmc SAND, f GRAVEL, ASH and SLAG	Sampled 3-4'	
4		167		PT		Brown, moist, PEAT		
6	S-2	120	2	ML		Beige, wet, MARL		
8				GP		Beige, wet, MARL, fmc concretions		
10	S-3	199	3	ML		Beige, wet, MARL	Sampled 7-11'	
12				PT		Dark brown, wet, PEAT		
12	S-4	84.2	0.3	GP		Beige, wet, MARL, fmc concretions	Refusal at 12'	
12	S-5	176	0.2					
14								
16								
18								
20								

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-20	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.89	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		4.0		GP		Grey, damp, fmc SAND, f GRAVEL, ASH and SLAG	Sampled 2-4'
2	S-1	26.8	3	ML		Beige, moist, MARL, trace peat	
				PT		Dark brown, moist, PEAT	
4				ML		Beige, wet, MARL, little peat	
				PT		Beige and dark brown, wet, MARL and PEAT	Sampled 15-17.7'
6	S-2	2.8	3	ML		Beige, wet, MARL	
8				ML		Beige, wet, MARL, trace peat	
10	S-3	17.1	3	PT		Dark brown, wet, PEAT	
				SM		Beige, wet, MARL, f concretions	Sampled 17.7-19'
12	S-4	87.4	3	SM		Beige, wet, MARL, f concretions, trace organics	
14				SM		Beige, wet, MARL, f concretions, trace organics	
16	S-5	61.8	2.5				Terminated boring at 19'
18		0.6		CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Course	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-21</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.19	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GM		Dry, grey, SILT, fmc SAND and F GRAVEL	
2	S-1	3.5	3.0	GP		Damp, dark brown, fmc SAND, f GRAVEL, SLAG, BRICK and ASH	
4		275		PT		Moist to wet, dark brown and black, PEAT	Fuel oil odor, sampled 3.3-4'
4				PT		Wet, beige and dark brown, MARL and PEAT	
4				GM		Wet, beige, MARL, fm concretions	
6	S-2	25.1	2.5	SM		Wet, beige, MARL, f concretions	
8				PT		Wet, dark brown, PEAT	
10	S-3	74.4	2.0	GP		Wet, beige, MARL, fmc concretions	Fuel oil odor
10				ML		Wet, beige, MARL, trace peat	
12				ML		Wet, beige, MARL	
14				PT		Wet, dark brown, PEAT	
14				ML		Wet, beige, MARL	
16	S-5	121	3.0	ML		Wet, beige, MARL, trace peat	Sampled 15-18.2'
18		0.3		CH		Moist, grey, CLAY	
20	S-6	0.1	2.0	CL		Wet, reddish grey, SILTY CLAY	Sampled 19-21'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
30% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-21</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/9/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Logged By:</b> T. Wirickx
		<b>Surface Elevation:</b> 420.19	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22							Terminated boring at 21'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-22</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 417.09	<b>Depth to Water:</b> ~2.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	72.7	3.0	GM		Moist, grey, SILT, fmc SAND, and f GRAVEL	Fuel oil odor
		37.4		PT		Wet, dark brown, PEAT	
4	S-2	29.8	3.0	ML		Wet, beige, MARL	
6							
8	S-3	124	2.5	SM		Wet, beige, MARL, f concretions	
10							
12	S-4	85.1	2.4	SM		Wet, beige, MARL, f concretions, trace peat	
14							
16	S-5	0.7	3.0	CH		Moist, grey, CLAY grading to Wet, grey, SILTY CLAY	
18				CL			
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-23</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 417.99	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	0.4	2.5	SP		Dry, grey, fmc SAND and f GRAVEL	
2		1.7		PT		Damp to moist, beige and brown, MARL and PEAT	
4	S-2	38.0	3.0	ML		Wet, beige, MARL, trace organics	
6							
8	S-3	21.9	2.5	ML		Wet, beige, MARL, some peat, trace organics	
10							
12	S-4	1.5	3.5	ML		Wet, beige, MARL, trace peat and organics	
14							
16	S-5	0.8	4.0	CH		Moist, grey, CLAY grading to wet, reddish grey, SILTY CLAY	
18							
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPD-24</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Eastng:</b> NA	<b>Surface Elevation:</b> 419.29	<b>Depth to Water:</b> ~2.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	0.4	3.8	SP		Damp to moist, grey and black, fmc SAND and SLAG	Sampled 2-4'
2				SP		Wet, light brown and tan to grey and brown, f SAND	
4		0.4		SP		Wet, black, f SAND and SLAG, trace silt	
4		S-2		2.5	0.8	SP	
6	S-3	2.3	1.5	SP		Wet, black, f SAND and SLAG	Sampled 11-15'
8	S-4	24.9	3.0	PT		Wet, brown, PEAT	
10				GM		Wet, beige, MARL, fm concretions	
12	S-5	26.9	3.0	PT		Wet, brown, PEAT	Sampled 16-17'
14				ML		Wet, beige, MARL	
16	S-6	8.1	3.0	PT		Wet, dark brown, PEAT	Sampled 16-17'
18		1.4		ML		Moist, greyish beige, MARL grading to moist, grey, CLAY and MARL	
20				CH		Moist, grey, CLAY	Refusal at 17'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-25</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.89	<b>Depth to Water:</b> ~3.3

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SP		Dry, grey, fmc SAND and fc GRAVEL, little silt	Sampled 3.3-4'
2	S-1	0.4	2.5	SP		Moist to wet, black, brown and tan, f SAND, little slag	
4		6.2					Sampled 11-15'
6	S-2	1.8	0.7	PT		Wet, brown, PEAT, little marl	
8							
10	S-3	65.3	4.0	ML		Wet, beige, MARL	Sampled 11-15'
12							
14	S-4	71.1	3.0	ML		Wet, beige, MARL, trace peat	
16	S-5	56.9	2.0	ML		Wet, greyish beige, MARL, trace peat	
18							Sampled 11-15'
20	S-6	1.5	2.0	CH		Moist, grey, CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-25</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.89	<b>Depth to Water:</b> ~3.3

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
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				CL		Moist, grey, SILTY CLAY	Terminated boring at 21'
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-26</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/12/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.99	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA			<b>Depth to Water:</b> ~2.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SP		ASPHALT	
0-2	S-1	43.6	2.0	SP		Dry, grey, fmc SAND and f GRAVEL	
2-4		166		ML		Damp to wet, black, f SAND and SLAG	Petroleum odor
4-6	S-2	1005	1.5	ML		Wet, beige, MARL, trace peat	Petroleum odor, sampled 4-7'
6-8							
8-10	S-3	24.4	3.0	SM		Wet, beige, MARL, f concretions	Solvent odor, sampled 11-15'
10-12							
12-14	S-4	>9999	2.0				
14-16	S-5	2992	3.5	PT		Moist, dark brown, PEAT, some marl	Sampled 17.5-19'
16-18				ML		Moist, greyish beige, MARL	
18-20		2.0		CL		Moist, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.42 - 2.00 mm
10% - 20%	LITTLE	Medium Sand	2.00 - 4.76 mm
1% - 10%	TRACE	Fine Sand	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-27</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/12/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.99	<b>Depth to Water:</b> ~2.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	55.3	3.0	SP		Moist to wet, black, f SAND and SLAG, trace silt	Petroleum odor, sampled 0-4'
4				PT ML		Wet, brown, PEAT	
6	S-2	39.3	3.0	ML		Wet, beige, MARL, trace peat	
8				ML		Wet, beige, MARL	
10	S-3	54.3	2.5				Sampled 7-11'
12				GP		Wet, beige, MARL, fmc concretions	
14	S-4	46.0	3.0	SM		Wet, beige, MARL, f concretions	
16		38.1		PT		Wet, dark brown, PEAT	
18	S-5	0.5	3.5	ML		Moist, greyish beige, MARL	
18				CH		Moist, grey, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-28</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/13/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.89	<b>Depth to Water:</b> ~2.0

Depth (ft.)	Sample Number	PTD Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
				SP		Wet, black, f SAND and SLAG	
2	S-1	0.7	1.5	ML		Wet, beige, MARL	Sampled 0.5-4'
4				GP		Wet, dark pink, MARL, fmc concretions	
6	S-2	3.4	1.5				
8	S-3	10.6	2.5	SM		Wet, beige, MARL, f concretions	Sampled 11-15'
12	S-4	40.6	2.5				
16	S-5	25.1	2.5	PT		Wet, dark brown, PEAT	
18		1.0		CH		Moist, grey, CLAY grading to moist, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-29</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/13/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.79	<b>Depth to Water:</b> ~2.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
				GP		Wet, dark pink, MARL, fmc concretions	
2	S-1	1.7	2.0	ML		Wet, beige, MARL, trace peat	Petroleum odor, sampled 0.5-4'
4				GP		Wet, beige, MARL, fmc concretions	
6	S-2	7.0	2.5	SM		Wet, beige, MARL, f concretions	
8	S-3	2.5	1.5	SM		Wet, beige, MARL, f concretions, little peat	
10				GP		Wet, beige, MARL, fmc concretions	
12		NR		GM		Wet, beige, MARL, fm concretions	Refusal at 10.5, augered to 12'
14	S-4	7.9	2.5	ML		Wet, beige, MARL, little peat	Samples 12-16'
16				PT		Wet, dark brown, PEAT	
18	S-5	4.3		ML		Wet to moist, greyish beige, MARL	
20		0.5	3.5	CH		Moist, grey, CLAY grading to moist, grey, CLAY, little silt	Terminated boring at 20'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-30</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/13/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.91	<b>Depth to Water:</b> ~2.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SP		CONCRETE	
0.3-4'						Wet, black, f SAND, SLAG, and ASH	Sampled 0.3-4'
2	S-1	2.7	1.0	ML		Wet, beige, MARL	
4							
6	S-2	0.9	3.0	GM		Wet, beige, MARL, fm concretions	
8							
10	S-3	2.5	3.5	SM		Wet, beige, MARL, f concretions	
12							
14	S-4	5.8	3.0	GP		Wet, beige, MARL, fmc concretions	Sampled 11-15'
16		5.0		ML		Wet, beige, MARL, trace peat	
16				PT		Wet, brown, PEAT	
16				ML		Moist, greyish beige, MARL, trace shells	
18	S-5	1.6	3.8	CH		Moist, grey, CLAY grading to moist, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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 Fax: (315) 455-9667

# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-31	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/13&14/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.21	<b>Depth to Water:</b> ~2.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	Petroleum odor
2	S-1	68.4	1.0	GP		Wet, black, fmc SAND, SLAG and CONCRETE	
		NR				CONCRETE	
4	S-2	6.3	0.5	SP		Wet, black, f SAND and SLAG	
6	S-3	106	2.0			Wet, beige, MARL	
8	S-4	320	2.5	ML		Wet, beige, MARL	
10		230		PT		Wet, dark, brown, PEAT	Terminated boring at 10.3'
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



C&S Engineers, Inc  
 499 Col. Eileen Collins Blvd.  
 Syracuse, New York 13212  
 Phone: (315) 455-2000  
 Fax: (315) 455-9667

# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-32	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/14/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.21	<b>Depth to Water:</b> NR

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	NR	NR			NO RECOVERY	
4	S-2	35.0	2.0	PT		Wet, brown, PEAT	Sampled 11-15'
6				ML		Wet, beige, MARL	
8	S-3	51.0	2.5	SM		Wet, beige, MARL, f concretions	
12	S-4	130	3.5	ML		Wet, beige, MARL	
14				PT		Wet, dark brown, PEAT	
16	S-5	31	3.0	PT		Wet, beige and dark brown, MARL and PEAT (4-8" layers)	
18		4.4		CH		Moist, grey, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-33</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/14/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.13	<b>Depth to Water:</b> NR

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	NR	NR			NO RECOVERY	
4	S-2	3.8	0.5				
6				PT		Wet, beige and brown, MARL and PEAT	
8	S-3	24.2	1.0				
10				GM		Wet, beige, MARL, fm concretions	
12	S-4	35.0	4.0				
14				ML		Wet, beige, MARL, some peat	
16	S-5	90.0	2.0				
18		1.7		CH		Moist, grey, CLAY	Sampled 15-18'
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-34</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/14/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.01	<b>Depth to Water:</b> NR

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	1.3	0.5	GM		Damp, black, SILT, f SAND, and SLAG	
4	S-2	32.6	3.0	PT		Wet, beige and dark brown, MARL and PEAT	
6				ML		Wet, beige, MARL	
8	S-3	186	3.0	PT		Wet, beige and dark brown, MARL and PEAT (1-5' layers)	Sampled 7-11'
10				ML		Wet, beige, MARL	
12	S-4	24.6	0.5	GP		Wet, beige, MARL, fmc concretions	Sampled 15-17'
14				PT		Moist, dark brown, PEAT	
16				ML		Wet, beige, MARL	
18	S-5	282	3.25	CH		Moist, grey, CLAY	Terminated boring at 19'
20		3.2					

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-35</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/14/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.91	<b>Depth to Water:</b> NR

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	32.4	2.0	SM		Damp to moist, black, SILT, m SAND, and SLAG	
4		24.1		ML		Wet, light brown, MARL	
6	S-2	4.8	3.0	PT		Wet, beige and brown, MARL and PEAT (layered)	
8				ML		Wet, beige, MARL	
10	S-3	126	3.5	PT		Wet, beige and brown, MARL and PEAT (layered)	
12	S-4	118	2.25				
14				GM		Wet, beige, MARL, fm concretions	
16	S-5	16.9	4.0	ML		Wet, beige, MARL	
18		2.2		CL		Wet, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-36	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Logged By:</b> T. Wirickx
		<b>Surface Elevation:</b> 419.01	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	0.6	2.0	SP		Wet, brown, fmc SAND, little f gravel	
4				ML		Wet, beige, MARL	
6	S-2	30.2	3.8	ML		Wet, beige to light brown, MARL	Sampled 4-7'
8	S-3	29.1	3.5	ML		Wet, light brown to beige, MARL	
12	S-4	158	3.5	GM		Wet, beige, MARL, fm concretions	Sampled 11-15'
14				GM		Wet, beige, MARL, fm concretions. trace peat	
16	S-5	122	3.5	ML		Wet to moist, beige to light grey, MARL	
18		0.8		CH		Moist, grey, CLAY, grading to moist, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-37</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.01	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
0-2				DP		Damp, dark brown, fmc SAND and f GRAVEL	
2-4		0.9		ML		Wet, white, MARL	
4-6	S-2	1.1	3.0	ML		Wet, white, MARL	
6-8							
8-10	S-3	245	3.0	ML		Wet, beige, MARL	Sampled 7-11'
10-12							
12-14	S-4	29.6	3.5	SM		Wet, beige, MARL, f concretions	
14-16							
16-18	S-5	129	1.5	PT		Wet, dark brown, PEAT	Sampled 15-18.3'
18-19		1.9		ML		Wet, beige, MARL	
19-20				CH		Moist, grey, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-38</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.31	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	2.6	1.5	SP		Wet, black. f SAND, trace slag	Sampled 4-7'
4	S-2	43.6	1.0	PT		Wet, beige and brown, MARL and PEAT (6" layers)	
8	S-3	157	3.5	SM		Wet, beige, MARL, f concretions	
12	S-4	99.5	1.0	GP		Wet, beige, MARL, fmc concretions	
16	S-5	182	3.0	PT		Wet, dark brown, PEAT	Sampled 15-17'
17		ML			Wet to moist, beige to grey, MARL		
18		CH			Wet, grey, CLAY	Sampled 17-19'	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-39</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.21	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA			<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	NR	NR			CONCRETE	Refusal at 2.4'
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-40</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/15/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.21	<b>Depth to Water:</b> ~2.75

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	8.9	1.0	SP		Wet, black, f SAND and SLAG	
4							
6	S-2	5.4	1.0	PT		Wet, dark brown, PEAT, trace marl	
8							
8	S-3	104	2.5	PT		Wet, dark brown, PEAT	
10							
10				ML		Wet, beige, MARL	
12				PT		Moist, dark brown, PEAT	
12				GP		Wet, beige, MARL, fmc concretions	
14	S-4	229	1.5	ML		Wet, beige, MARL	
16							
16	S-5	144	3.0	ML		Wet, beige, MARL, little peat	
18		3.9		CH		Moist, grey, CLAY, grading to moist, grey, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-41</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.01	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	3.2	1.0	SP		Black, wet, f SAND and SLAG	Sampled 7-11'
4				PT		Dark brown, wet, PEAT, trace marl	
6	S-2	9.9	1.5	ML		White, wet, MARL	
6				PT		Dark brown, wet, PEAT	
6				GM		Beige, wet, MARL, fmc concretions	
8	S-3	288	3.5	ML		Beige with pink tinge, wet, MARL	
10							
12	S-4	170	3.5	GM		Beige, wet, MARL, fm concretions	
14				ML		Beige, wet, MARL	
16	S-5	64.4	3.0	PT		Brown and beige, wet, PEAT and MARL	
18				ML		Greyish beige, moist, MARL	
18		2.1		CH		Grey, moist, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 30%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-42</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/16/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.01	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0					0 0 0 0	CONCRETE	
2	S-1	7.5	2.5	SP		Black brown, moist to wet, f SAND, little slag, trace silt	
4							
6	S-2	152	3.0	ML		Beige, wet, MARL	Sampled 11-15'
8	S-3	138	3.0				
10							
12							
14	S-4	276	3.0				
16				ML		Beige, wet, MARL, little peat	
18	S-5	29.8	3.5	ML		Beige to greyish beige, wet, MARL	
		2.0		CH		Grey, moist, CLAY grading to grey, moist, SILTY CLAY	
20							Terminated Boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-43</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.71	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	2.2	3.0	SP		Light brown, moist to wet, fmc SAND	
4				SP		Dark brown, wet, f SAND and SLAG	
				ML		White, wet, MARL	
				SP		Black, wet, f SAND and SLAG	
				PT		Dark brown, wet, PEAT	
6	S-2	23.8	3.0				
8	S-3	258	3.5	ML		Beige, wet, MARL	
10							
12	S-4	281	3.5				
14							Sampled 11-15'
16	S-5	117	3.5	ML		Beige to greyish beige, wet to moist, MARL	
18		4.0		CH		Grey, moist, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-44</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.11	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	28.2	3.0	SP		Black, moist to wet, fm SAND, little slag	Sampled 4-7'
4	S-2	337	2.0	PT		Dark brown, wet, PEAT	
6				ML		Beige, wet, MARL	
8				PT		Dark brown, wet, PEAT	
10	S-3	269	1.0	PT		Dark brown, wet, PEAT, little to trace marl	
12	S-4	200	3.7	ML		Beige, wet, MARL	Sampled 15-17.9'
14							
16	S-5	107	3.0	ML		Beige to greyish beige, wet to moist, MARL, trace shells	
18							
20		1.1		CH		Grey, moist, CLAY	Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-45</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.11	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	4.8	2.0	SP		Brown, dry, fmc SAND and f GRAVEL	Petroleum odor, sampled 2-4'
				SP		BRICK	
4		66.7		SP		Black, damp to wet, fm SAND, little slag	
6	S-2	11.6	1.5	SP		Black, wet, fm SAND and SLAG	
8	S-3	28.1	2.5	ML		Pinkish beige, wet, MARL	Sampled 15-18.3'
10							
12	S-4	130	4.0	ML		Beige, wet, MARL	
14							
16	S-5	143	2.5	ML		Beige, wet, MARL, some peat	
18				CH		Grey, moist, CLAY	
20		19.2					

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-45</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.11	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA			<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	5.7	3.0	CL		Grey, wet, SILTY CLAY	Sampled 19-22'
24							Terminated boring at 22'
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-46</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16&19/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16&19/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.50	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2				SP		Brown, dry, fmc SAND, fc GRAVEL, trace silt	
	S-1	2.8	1.0	SP		Black, dry, fm SAND, some slag and f gravel	
4				GW		Yellow and red, dry to wet, BRICK	
	S-2	2.2	1.0	SP		Black and brown, wet, fmc SAND, SLAG and CONCRETE	
6							
8							Refusal at 7'
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-47	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16&19/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/16&19/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.50	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
0-2	S-1	5.0	3.0	GM		Brown, dry, SILT, fmc SAND and f GRAVEL	
2-4				SP		Black, moist to wet, fm SAND, some slag and glass	
4-6	S-2	36.7	3.0	PT		Dark brown and black, wet, PEAT	Sampled 4-7'
6-12	S-3	189	3.0	ML		Beige, wet, MARL	
12-18	S-4	194	3.5				Sampled 11-15'
18-20	S-5	123	3.0	CH		Grey, moist, CLAY grading to grey, moist, CLAY, little silt	Sampled 18-19'
20		2.7					Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-48</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/19/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/19/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.90	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SM		Brown, dry, SILT and fmc SAND, trace f gravel	
2	S-1	1.5	3.0	SP		Brown, damp, fm SAND	
4				SP		Black, moist to wet, f SAND, trace slag and concrete	
6	S-2	20.3	3.0	PT		Brown, wet, PEAT	
8				ML		Beige, wet, MARL	
10	S-3	26.9	3.0	SM		Beige, wet, MARL, f concretions	Sampled 7-11'
12				SM		Beige, wet, MARL, f concretions	
14	S-4	15.6	3.0	SM		Beige, wet, MARL, f concretions	
16				ML		Beige, wet, MARL	
18	S-5	16.1	3.0	ML		Greyish beige, moist, MARL, trace shells	Sampled 15-17.3'
20				CH		Grey, wet, CLAY grading to reddish grey, wet, SILTY CLAY	Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-49</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.10	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA			<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				SM		Brown, dry, SILT and fmc SAND, trace f gravel	
2	S-1	2.0	3.0	SP		CONCRETE Black, brown and tan, damp to wet, fm SAND, little slag and glass	
4							
6	S-2	2.2	3.0	SP		Black, wet, f SAND, trace slag	
		0.3					
8				ML		Beige, wet, MARL	
10	S-3	25.6	3.5	SM		Beige, wet, MARL, f concretions	
12							
14	S-4	73.9	3.0	ML		Beige, wet, MARL	Sampled 11-15'
16							
18	S-5	49.7	2.7	ML		Greyish beige, moist, MARL	Sampled 15-17'
		0.3		CH		Grey, moist, CLAY grading to reddish brown, moist, SILTY CLAY	Sampled 17-19'
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-50</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.8	<b>Depth to Water:</b> ~3.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
1	S-1	4.3	0.7	GP		Grey, damp, fmc SAND and fc GRAVEL, trace silt	
2						CONCRETE	
3	S-2	5.9	2.0	SP		Brown, wet, fm SAND	
3.5				PT		Brown, wet, PEAT	
4				ML		Beige, wet, MARL	
4.5				GP		Beige, wet, MARL, fmc concretions	
5.5	S-3	17.2	2.0	PT		Brown and beige, wet, PEAT and MARL	Sampled 4-7'
8	S-4	3.5	3.5	GM		Beige, wet, MARL, fm concretions	
12	S-5	2.6	3.0	PT		Brown, wet, PEAT, little marl	Sampled 11-14'
13.5		0.7		CH		Grey, moist, CLAY	Sampled 14-15'
16	S-6	1.3	2.5	GP		Grey, wet, fmc SAND and f GRAVEL, trace silt and c gravel	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-51</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.00	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	13.5	3.0	GP		Grey, damp, fmc SAND and f GRAVEL	
				SP		Tan, moist, f SAND, trace silt	
4							
6	S-2	2.2	3.0	ML		Beige, wet, MARL	
8							
10	S-3	1.6	3.0	SM		Beige, wet, MARL, f concretions	
12							
14	S-4	5.7	3.0	GM		Beige, wet, MARL, fm concretions	
16							Solvent odor
18	S-5	>9999	3.0	SM		Beige, wet, MARL, f concretions	
		24.8		PT		Dark brown, wet, PEAT	Solvent odor, sampled 15-18.2'
				CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-51</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.00	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Recovery:</b> NA	<b>Depth to Water:</b> -4.0	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	5.2	3.0	CL		Grey, wet, SILTY CLAY	Sampled 19-23'
24							Terminated boring at 23'
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-52</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/20/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.60	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT AND CONCRETE	
2	S-1	2.4	1.5	SP		Dark brown, damp to moist, fm SAND, trace slag	
4							
6	S-2	1.4	0.5				
8	S-3	NR	NR			NO RECOVERY	
10							
12	S-4	6.1	1.5	GP		Beige, wet, MARL, fmc concretions	
14							
16	S-5	417	2.7	ML		Beige, wet, MARL	Slight solvent odor, sampled 15-17.5
18				ML		Beige, wet, MARL, little peat	
20				CH		Grey, moist, CLAY	
20		1.5					Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-53</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/21/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.90	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
				GP		Grey, fmc damp, SAND and f GRAVEL	
				CONCRETE		CONCRETE	
2	S-1	2.6	3.0	GP		Grey, dry, fmc SAND and fc GRAVEL	
				ML		Beige, damp, MARL	
				SP		Dark brown, damp, fm SAND, some slag	
4				ML		Beige, wet, MARL	
6	S-2	0.6	3.0	SM		Beige, wet, MARL, f concretions	
8	S-3	1.4	3.5	ML		Beige, wet, MARL	
10				ML		Beige, wet, MARL	
12	S-4	16.7	4.0	GM		Beige, wet, MARL, fm concretions	
14				GM		Beige, wet, MARL, fm concretions	
16	S-5	222	3.5	ML		Beige, wet, MARL, some peat	
18		3.2		CH		Grey, moist, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-54</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/21/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> ~423.90	<b>Depth to Water:</b> ~5.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	NR			NO RECOVERY	
4	S-2	0.8	0.5	GP		Dark brown, moist, fmc SAND and SLAG	
	S-3	8.6	1.2				
6				SP PT		Black, wet, f SAND Brown, wet, PEAT	
8	S-4	2.7	2.8	ML		Beige, wet, MARL	
10				GM		Beige, wet, MARL, fm concretions	
12	S-5	1.2	3.7	SM		Beige, wet, MARL, f concretions	
14							
16	S-6	4.3	1.0	GP		Beige, wet, MARL, fmc concretions	
18							
20							Refusal at 17.5'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPD-55	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Logged By:</b> T. Wirickx
		<b>Surface Elevation:</b> 421.60	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
						CONCRETE	
2	S-1	2.1	1.5	SP		Dark brown, moist, fm SAND	Petroleum odor, free product, sampled 4-7'
4				ML		Beige, wet, MARL	
6	S-2	1.9	2.5	GP		Beige, wet, MARL, fmc concretions	
8	S-3	1.3	3.0	SM		Beige, wet, MARL, f concretions	
12	S-4	13.6	3.5	ML		Beige, wet, MARL	
16	S-5	20.2	3.0	PT		Dark brown, wet, PEAT, little marl	
18		0.6		CH		Grey, moist, CLAY	Sampled 15-18'
20	S-6	NR	NR			NO RECOVERY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-55</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.60	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22							Terminated boring at 21'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-56</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/21/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.80	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0					ASPHALT CONCRETE		
2	S-1	2.8	1.5	SP	[Dotted pattern]	Dark brown, dry to moist, f SAND	
4							
6	S-2	0.7	3.0	SM	[Dotted pattern]	White to beige, wet, MARL, f concretions	
8							
10	S-3	1.3	3.0	GM	[Dotted pattern]	Beige, wet, MARL, fm concretions	
12							
14	S-4	21.1	3.5	GM	[Dotted pattern]	Light brown, wet, MARL, fm concretions	
16							
18	S-5	4604	3.0	ML	[Horizontal line pattern]	Beige, wet, MARL, some peat	Solvent odor
19		142		CH	[Horizontal line pattern]	Grey, moist, CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-57</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/21/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.90	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	31.7	2.0	ML		White, moist, MARL	Sampled 0.5-4'
4				PT		Brown, moist, PEAT	
4				ML		White, wet, MARL	
6	S-2	1.7	3.0	ML		Beige, wet, MARL	Sampled 11-14.5
8	S-3	1.5	4.0				
12	S-4	1.5	3.0	GM		Beige, wet, MARL, fmc concretions	
14				PT		Brown, wet, PEAT, trace marl	
16	S-5	0.8	3.0	CL		Grey, moist, CLAY, some fc gravel	
18				GM		Grey, wet, SILT, fmc SAND and f GRAVEL grading to grey, wet, fmc SAND and f GRAVEL, little SILT	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Medium Fine	0.074 - 0.42 mm
10% - 20%	LITTLE		0.42 - 2.00 mm
1% - 10%	TRACE	GRAVEL	2.00 - 4.76 mm
			4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-58</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21&22/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21&22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.70	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT CONCRETE	
2	S-1	5.3	1.5	SP		Dark brown and black, moist, f SAND, trace slag	
4							
6	S-2	1.9	1.2	SP		Dark brown and black, wet, f SAND, trace slag	
8							
10	S-3	4.0	3.0	SM		Beige, wet, MARL, f concretions	
12	S-4	NR	NR	GM		Beige, wet, MARL, fm concretions NO RECOVERY	
14	S-5	1.0	1.5	GM ML		Beige, wet, MARL, fm concretions	
16							
18	S-6	25.2	3.0	ML		Beige, wet, MARL, little peat	Sampled 15-18.5'
		2.3		CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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 Syracuse, New York 13212  
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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-58</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21&22/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/21&22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.70	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-7	0.3	4.0	CL		Grey, wet, SILTY CLAY	Terminated boring at 23'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-59</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.80	<b>Depth to Water:</b> ~4.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	9.3	0.25	PT		Dark brown, moist, PEAT	Poor recovery
4							
6	S-2	3.0	3.5	ML		Beige, wet, MARL	
8							
8				PT		Dark brown, wet, PEAT, trace marl	
10	S-3	60.1	3.2	ML		Beige, wet, MARL	Sampled 7-11'
12							
12				SM		Beige, wet, MARL, f concretions	
14	S-4	25.1	2.3	ML		Beige, wet, MARL, some peat	Sampled 11-14.3'
14		5.6		CH		Grey, moist, CLAY	Sampled 14.3-15'
16	S-5	NR	NR			NO RECOVERY	Refusal at 16.5'
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-60</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.80	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	137	1.0	GP		Black and brown, damp, f SAND, SLAG, GLASS and BRICK	Sampled 4-7'
4				ML		White, moist to wet, MARL	
6	S-2	220	1.0	ML		Beige, wet, MARL	
8				PT		Brown, wet, PEAT, some marl	
10	S-3	0.8	2.5	GP		Beige, wet, MARL, fmc concretions	
12				SM		Beige, wet, MARL, f concretions	
14	S-4	0.8	1.5	PT		Dark brown, wet, PEAT, trace marl	
16		0.7		CH		Grey, moist, CLAY	
18							Terminated boring at 15'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-61</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.80	<b>Depth to Water:</b> ~3.2

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	1.0	2.0	SM		Brown and white, moist to wet, f SAND and MARL, trace slag	
4							
6	S-2	0.5	3.0	ML		Beige, wet, MARL	
8							
10	S-3	0.6	4.0				
12				SM		Beige, wet, MARL, f concretions	
14	S-4	37.1	3.6				
16				ML		Beige, wet, MARL	
18	S-5	47.9	2.5	PT		Dark brown, wet, PEAT	Sampled 15-17.8'
				ML		Greyish beige, moist, MARL	
		0.5		CH		Grey, moist, CLAY grading to grey, moist, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-62</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/22/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.30	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	2.6	3.0	SP		Black and dark brown, damp to wet, f SAND, trace slag	
4	S-2	1.7	1.5	ML		Beige, wet, MARL	
6				PT		Brown, wet, PEAT	
8	S-3	9.3	4.0	SM		Beige, wet, MARL, f concretions	
12	S-4	86.1	4.0	ML		Beige, wet, MARL	Sampled 11-15'
14							
16	S-5	45.4	3.7	CH		Grey, moist, CLAY grading to grey, moist, SILTY CLAY	Sampled 15-16.5'
18		0.6					
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF


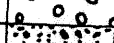
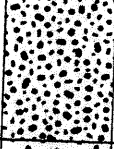


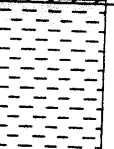
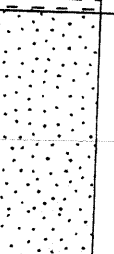
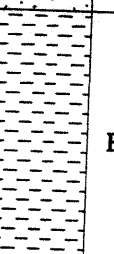
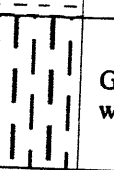
FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-63</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/23/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.40	<b>Depth to Water:</b> ~3.5

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
						CONCRETE	
2	S-1	68.8	2.5	SP		Black and brown, damp to moist, fm SAND	Sampled 1-4'
4				GP		Black and brown, wet, fm SAND and SLAG	
6	S-2	1.1	2.5	PT		Brown, wet, PEAT	
8				ML		Beige, wet, MARL	Sampled 15-16.6'
10	S-3	0.1	3.5	SM		Beige, wet, MARL, f concretions	
12							
14	S-4	24.9	3.5	ML		Beige, wet, MARL	
16		19.2					
18	S-5	0.4	3.5	CL		Grey, moist, CLAY, trace silt grading to grey, wet, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-64</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/23/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 417.30	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						Brown, dry, SILT and fmc SAND, trace f gravel	
2	S-1	0.4	2.0	GP		Dark brown and black, moist to wet, fmc SAND and SLAG	
6	S-2	1.3	2.0	PT		Brown, wet, PEAT	
10	S-3	19.6	3.2	ML		Beige, wet, MARL	
11				PT		Brown, wet, PEAT	
12	S-4	92.1	4.0	ML		Beige, wet, MARL	Sampled 11-15'
16	S-5	0.4	3.8	CL		Grey, wet, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-65</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/23/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.00	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	4.6	2.5	SP		Dark brown and black, damp to wet, fm SAND, trace slag	
4	S-2	81.6	3.0	PT		Brown, wet, PEAT	
6				ML		Beige, wet, MARL	
8	S-3	71.7	3.0	SM		Beige, wet, MARL, f concretions	
12	S-4	127	3.5				
14	S-5	82.6	3.0	ML		Beige, wet, MARL	Sampled 11-15'
16				CH		Grey, moist, CLAY grading to grey, moist, SILTY CLAY	Sampled 17.2-19'
18		0.7					Terminated boring at 19'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-66</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/23/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.90	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	18.8	2.5	SP		Black, brown and tan, moist to wet, fmc SAND, trace slag	
4				ML		Beige, wet, MARL	
4				PT		Brown, wet, PEAT	
6	S-2	3.5	3.0				
8	S-3	24.5	3.5				
12	S-4	40.3	3.5	ML		Beige, wet, MARL	
14							Sampled 11-15'
16	S-5	20.8	3.0				
18		0.4		CH		Grey, moist, CLAY grading to reddish grey, moist, SILTY CLAY	
20							Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
30% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPD-67</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 9/23/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.00	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						CONCRETE	
2	S-1	43.6	2.0	SP		Black, moist to wet, fmc SAND, trace glass and slag	
4							
6	S-2	1.5	3.0	SP		Black, wet, f SAND, trace slag and silt	
8						Beige, wet, MARL	
10	S-3	43.0	3.5	SM		Beige, wet, MARL, f concretions	
12							
14	S-4	668	3.5	ML		Beige, wet, MARL	Sampled 11-15'
16							
18	S-5	12.3	3.0	ML		Beige, wet, MARL, trace peat	
20		0.5		CH		Grey, moist, CLAY grading to grey, wet, SILTY CLAY	Terminated boring at 19'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> SVGP-1	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/27/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.30	<b>Depth to Water:</b> ~5.0

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GP		Dark brown, wet, fmc SAND and f GRAVEL, little SILT	
2	S-1	0.5	3.5	SP		Black and dark brown, fm SAND, trace slag and glass	
4				PT		Dark brown, moist, PEAT, trace marl	
6	S-2	0.1	2.5	GP		Beige, wet, MARL, fmc concretions	
8	S-3	0.9	3.0	PT		Dark, brown, wet, PEAT	
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> SVGP-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> Custom GP	<b>Date:</b> 9/27/05
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> Custom GP	<b>Date:</b> 9/27/05	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.30	<b>Depth to Water:</b> ~3.8

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0				GP		Greyish brown, moist, fmc SAND and fc GRAVEL, little silt	
2	S-1	13.4	2.0	GP		Black and brown, moist to wet, fmc SAND, SLAG and BRICK	
4				PT		Dark brown, moist, PEAT, some marl	
6	S-2	4.3	2.5	SM		Beige, wet, MARL, f concretions	
8				ML		Beige, wet, MARL	
10	S-3	12.8	3.0	GP		Beige, wet, MARL, fmc concretions	
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-1	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.003	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	0.6	3.0	SP		Black, moist, f SAND, trace slag and marl	
4	S-2	2.4	1.0	SP		Black, wet, f SAND, trace slag and marl	
8	S-3	0.7	1.5				
12	S-4	43.5	4.0	SM		Beige, wet, Marl, f concretions	Sampled 10-14'
16	S-5	96.8	3.2	ML		Beige, wet, MARL, trace peat	Sampled 14-18'
18				CH		Grey, moist, CLAY, little silt, trace peat	
20	S-6	0.3	4.0	CL		Grey, wet, SILTY CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.003	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	0.3	4.0	CL		Grey, wet SILTY CLAY	Terminated Boring at 22'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.460	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	0.6	3.2	SP		Black and Brown, f SAND, wet, trace slag and marl	
4	S-2	1.2	0.7	SP		Black, wet, f SAND, trace peat	
8	S-3	0.6	4.0				
12	S-4	21.2	4.0	SM		Beige, wet, MARL, f concretions	Sampled 10-14'
16	S-5	65.4	3.0				Sampled 14-17.3
18		1.9		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-3</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/27/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.833	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	1.5			GRAVEL, BRICK, CONCRETE	
4		1.2		SP		Black, wet, fm SAND, little brick and concrete, trace peat	
	S-1	1.3	2.0	SP		Black, wet, fm SAND, some brick and concrete	
6				ML		Beige, wet, MARL, trace peat (seams)	
8	S-3	23.0	2.0				
10							
12	S-4	34.9	3.0	SM		Beige, wet, MARL, f concretions	Sampled 10-14'
14							
16	S-5	49.6	3.0				Sampled 14-17.5'
18		1.7		CL		Grey, wet, SILTY CLAY	Terminated boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.043	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	2.5			GRAVEL, BRICK, CONCRETE	
4		0.8		ML		White, wet, MARL, little slag and f sand, trace peat	
4	S-2	4.4	1.2	PT		Black to Dark brown, wet, PEAT	
6							
8	S-3	5.5	3.3				
10				SM		Beige, wet, MARL, f concretions	
12	S-4	21.9	4.0				Sampled 10-14'
14							
16	S-5	46.5	3.0				Sampled 14-17.7'
16				SM		Beige, wet, MARL, f concretions, little peat	
18		0.9		CH		Grey, wet, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-5	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.260	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	1.8	2.3	SP		Brown, moist, f SAND, some marl	
4		0.8	1.5	SW		Black, wet, f SAND	
6	S-2	0.8	1.5	PT		Brown, wet, PEAT	
8	S-3	4.5	4.0	SM		Beige, wet, MARL, f concretions	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	81.6	3.0	ML		Beige, wet, MARL	Sampled 10-14'
14				ML		Beige, wet, MARL, trace peat	
16	S-5	58.6	3.0	ML		Beige, wet, MARL, trace peat	Sampled 14-17.7'
18		1.7		CH		Grey, moist, CLAY	
				CL		Grey, wet, SILTY CLAY	Terminated boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-6</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Surface Elevation:</b> 418.314
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Depth to Water:</b> NA	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	12.5	2.5				
4	S-2	7.5	1.0	SP		Black and Brown, fm SAND, trace slag	
6							
8	S-3	1.9	3.0	SW		Black, f SAND	
10							Petroleum Sheen 9-9.8'
12	S-4	52.3	3.5	GM		Beige, wet, MARL, fm concretions	
				SM		Beige, wet, MARL, f concretions	Sampled 10-14'
14				ML		Beige, wet, MARL	
16	S-5	33.8	2.5	ML		Beige, wet, MARL, little peat	Sampled 14-17'
		4.1		CH		Grey, moist, CLAY	
18				CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GP3-7</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 8/06 & 3/2/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 8/06 & 3/2/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.474	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	4.6	3.5			Black and Dark Brown. wet, f SAND, some slag	
4	S-2	6.3	0.8	SP			
6				PT		Brown, wet, PEAT, some marl	
8	S-3	NR	NR			NO RECOVERY	
12	S-4	20.3	2.0	SM		Beige, wet, MARL, f concretions	
14				ML		Beige, wet, MARL	
16	S-5	25.4	3.0	SM		Beige, wet, MARL, f concretions	Sampled 14-16.7', Sample Collected From Adjacent Boring
16		1.6		ML		Beige, wet, MARL, little peat	
18	S-6	1.7	4.0	CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	Coarse 0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-8	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.598	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				ASPHALT	
2	S-1	6.6	2.0	SW		Black, wet, f SAND	
4	S-2	2.4	1.3	GP		Black, wet, SLAG, little f sand	
6				PT		Dark Brown, wet, PEAT	
8	S-3	5.4	4.0	ML		Beige, wet, MARL	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	186	3.3	ML		Beige, wet, MARL	Solvent Odor 11-14'
14	S-5	288	3.5				ML
16				ML	Beige, wet, MARL, little peat	Solvent Odor 14-18'	
18				ML	Beige, wet, MARL		
18		254		CL		Grey, wet, SILTY CLAY	Sample 14-18' Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-9	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.783	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				ASPHALT	
2	S-1	24.9	2.0	GP		Grey, moist, fmc SAND, fc GRAVEL, and CONCRETE	
4				SP		Black and Brown, wet, f SAND, little slag	
4	S-2	4.0	1.5	PT		Dark brown, wet, PEAT, trace marl	
6				ML		Beige, wet, MARL	
8	S-3	2.5	4.0				
10				SM		Beige, wet, MARL, f concretions	
12	S-4	734	2.0				Solvent Odor 10-14'
14							Sampled 10-14'
16	S-5	>9999	3.5	ML		Beige, wet, MARL, trace peat	Solvent Odor 14-18'
18				CH		Grey, moist, CLAY	Sampled 14-18' Terminated Boring at 18'
20	S-6	4.2	4.0	CL		Grey, moist, SILTY CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-9	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 2/28/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.783	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	4.2	4.0	CL		Reddish Grey, wet, SILTY CLAY	
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-10</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.964	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE	
2	S-1	0.6	2.3	GP		Grey, wet, fmc SAND, fc GRAVEL, CONCRETE and BRICK	
4	S-2	0.5	0.3	SM		Beige, wet, MARL, some peat, little f sand	
6							
8	S-3	2.9	2.5	SM		Beige, wet, MARL, f concretions	
10							
12	S-4	18.1	4.0	SM			
14							
16	S-5	37.2	3.5	ML		Beige, wet, MARL, trace peat	Sampled 14-18'
18				CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GP3-11	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.391	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks	
0		NR						
2	S-1	1.3	3.0	SP		Brown, wet, f SAND and SLAG	Sampled 14-17.5'	
4		2.1		ML		White, wet, MARL		
6	S-2	2.1	2.0	ML		Beige, wet, MARL		
8	S-3	4.4	3.0	SM		Beige, wet, MARL, f concretions		
10								
12	S-4	8.3	3.5	ML		Beige, wet, MARL		
14	S-5	49.2	3.0	ML		Beige, wet, MARL, trace peat		
16		1.3		CL		Grey, wet, SILTY CLAY		
18								Terminated Boring at 18'
20								

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-12</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.349	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	NR	3.5	GP		SAND, GRAVEL, BRICK and CONCRETE	Sampled 14-17.5  Terminated Boring at 18'
4		6.6					
4	S-2	1.8	0.2	SP		Black and Dark Brown, wet, f SAND, little slag	
6							
8	S-3	5.4	2.0	PT		Brown, wet, PEAT	
10							
12	S-4	11.9	2.0	SM		Beige, wet, MARL, f concretions	
14							
16	S-5	58.8	3.0	ML		Beige, wet, MARL	
18		0.9		CL		Grey, wet, SILTY CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GP3-13</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/1/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 418.555	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR		GP		ASPHALT	
2	S-1	11.9	2.5	SP		Grey, moist, fc GRAVEL and CONCRETE, little fmc sand and silt	
4						Black and Brown, wet, f SAND, little slag	
6	S-2	0.3	1.0	PT		Brown, wet, PEAT	
8						Beige, wet, MARL	
10	S-3	7.4	4.0	SM		Beige, wet, MARL, f concretions	
12	S-4	69.0	4.0	ML		Beige, wet, MARL	Sampled 10-14'
14							
16	S-5	38.9	3.5	ML		Beige, wet, MARL, trace peat	Sampled 14-17'
18		2.0		CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPS1-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.269	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	2.0			BRICK and CONCRETE	
4							
6	S-2	2.4	1.5	SM		Beige, wet, MARL, f concretions	
8	S-3	9.3	2.5	ML		Beige, wet, MARL	
				PT		Dark Brown, wet, PEAT	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	12.1	2.5	GP		Beige, wet, MARL, fmc concretions	Sampled 10-14'
14							
16	S-5	6.4	2.5	ML		Beige, wet, MARL, little peat	
18		2.1		PT		Dark Brown, wet, PEAT	
				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPS1-2</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.810	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	6.1	2.0			BRICK, CONCRETE and WOOD	
4	S-2	0.6	0.7	SM		Beige, wet. MARL, f concretions	
6				GM		Beige, wet, MARL, fm concretions	
8	S-3	0.4	3.5	PT		Dark Brown, wet, PEAT	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	0.8	4.0	ML		Beige, wet, MARL, trace peat	
14				PT		Brown, wet, PEAT, little marl	
16	S-5	0.2	3.0	CH		Grey, moist, CLAY	
18		0.1					Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPS1-3</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.802	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	0.5	2.5			BRICK, CONCRETE and WOOD	
4	S-2	0.2	1.0	GP		BRICK, CONCRETE and WOOD, little marl	
6							
8	S-3	1.9	4.0	ML		Beige, wet, MARL	
10				PT		Dark Brown, wet, PEAT	
12	S-4	1.4	4.0	ML		Beige, wet, MARL	
14				ML		Beige, wet, MARL, some peat (layers)	
16	S-5	0.9	3.0	ML		Beige, wet, MARL	
18		0.1		SM		Beige, wet, MARL, some peat (layers)	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPS1-4</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.604	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Depth to Water:</b> NA		

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks		
0									
2	S-1	1.6	3.5			GRAVEL, BRICK, CONCRETE and WOOD	Slight Petroleum Odor		
4	S-2	3.5	1.5						
8	S-3	0.6	2.5	PT				Brown, PEAT, little marl (layers)	
12	S-4	4.6	3.5	ML				Beige, wet, MARL	Sampled 10-14'
16	S-5	2.8	3.5	PT				Brown, PEAT, little marl (layers)	
18				CH	Grey, moist, CLAY	Terminated Boring at 18'			
20									

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.42 - 2.00 mm
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPS1-5</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.509	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	1.2	3.0			GRAVEL, BRICK, CONCRETE and WOOD	
4	S-2	0.4	1.5				
6							
8	S-3	1.5	3.0	ML		Beige, wet, MARL	
10				PT		Brown, wet, PEAT, little marl	
12	S-4	2.6	3.0	ML		Beige, wet, MARL	
14				ML		Beige, wet, MARL, some peat (layers)	
16	S-5	0.8	4.0	ML		Beige, wet, MARL	
18				PT		Dark brown, moist, PEAT	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-1</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.431	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	3.0			GRAVEL, BRICK, CONCRETE and WOOD	
4	S-2	209	1.0	ML		Beige, wet, MARL, trace peat	Petroleum Odor 4-6'
6							
8	S-3	90.8	3.5	GM		Beige, wet, MARL, fm concretions, little peat	
				SM		Beige, wet, MARL, f concretions, little peat	
10				PT		Brown, wet, PEAT	
				GP		Beige, wet, MARL, fmc concretions	Solvent Odor 10-17'
12	S-4	529	2.5	SM		Beige, wet, MARL, f concretions	
				ML		Beige, wet, MARL	
14				PT		Brown, wet, PEAT, trace marl	Sampled 14-17'
				SM		Beige, wet, MARL, f concretions	
16	S-5	764	2.5	ML		Beige, wet, MARL, trace peat	
		10.7		CH		Grey, moist, CLAY	Terminated Boring at 18'
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-2</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/2/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.092	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	18.0	2.5			Grey, wet, fmc SAND, BRICK, CONCRETE and SLAG	Petroleum Odor 0-6'
4	S-2	53.5	1.0				
6							
8	S-3	NR	1.5			NO RECOVERY	
10				ML		Beige, wet, MARL	
				PT		Brown, wet, PEAT	
12	S-4	9258	3.5	GP		Beige, wet, MARL, fmc concretions	Solvent Odor 10-18'
14				SM		Beige, wet, MARL, f concretions	
16	S-5	>9999	3.5	GM		Beige, wet, MARL, fm concretions	Sampled 14-18'
				SM		Beige, wet, MARL, f concretions	
				PT		Brown, wet, PEAT, some marl (layers)	
18				ML		Greyish Beige, moist, MARL, trace clay	
20	S-6	4.5		CL		Grey, wet, SILTY CLAY	Terminated Boring at 20'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-3</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/3/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.958	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	46	3.5			Brown, wet, PEAT, MARL, fmc SAND, BRICK and CONCRETE	Petroleum Odor 4-10'
4	S-2	33.4	0.5	SP		Black, wet, fmc SAND and SLAG	
6				GM		Black, wet, SLAG, little fm SAND	
8	S-3	43.4	1.0	SM		Beige, wet, MARL, f concretions	
10	S-4	4950	3.0	GP		Beige, wet, MARL, fmc concretions	
12							Solvent Odor 10-11.8' Sampled 10-11.8' Refusal at 11.8'
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB1-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/3/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/3/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.776	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				Grey, moist, fmc SAND, fc GRAVEL, and CONCRETE	
2	S-1	65.7	2.5	PT		Black, moist, PEAT, little marl	
4				ML		White, wet, MARL, some peat, trace wood	
4	S-2	8.1	1.0	ML		Beige, wet, MARL, trace peat	
6				GP		Beige, wet, MARL, fmc concretions	Petroleum Odor 0-10'
6				SM		Beige, wet, MARL, f concretions	
8	S-3	61.5	2.0	GM		Beige, wet, MARL, fm concretions	
10				PT		Dark Brown, wet, PEAT	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	22.3	2.5	SM		Beige, wet, MARL, f concretions	
14				ML		Beige, wet, MARL, trace organics	Solvent Odor 14-17.6'
16	S-5	>9999	2.3	ML		Beige, wet, MARL, little peat	Sampled 14-17.6'
18		3.0		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-5</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/3/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.077	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	3.7	2.0			BRICK, CONCRETE and MARL	
4	S-2	2.9	2.0	GM		Beige, wet, MARL, fm concretions	
6				ML		Beige, wet, MARL	
8	S-3	11.4	3.8	GM		Beige, wet, MARL, fm concretions, trace peat	
10				PT		Dark Brown, wet, PEAT	
12	S-4	4.6	2.0	SM		Beige, wet, MARL, f concretions	
14							
16	S-5	33.2	3.0	GP		Beige, wet, MARL, fmc concretions	Sampled 14-17'
17				PT		Brown, wet, PEAT, little marl	
18		1.5		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-6</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/3/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.589	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	3.0			Black, wet, f SAND, BRICK and CONCRETE	Petroleum Odor 0-6'
4		371		SP		Black, wet, f SAND and SILT, trace marl	
6	S-2	47.6	0.5	SP		Black, wet, f SAND and SILT, some slag	
8	S-3	343	3.7	SM		Beige, wet, MARL, f concretions	
9				GM		Beige, wet, MARL, fm concretions	
10				PT		Brown, moist, PEAT	
11				SM		Beige, wet, MARL, f concretions	
12	S-4	401	3.7	GP		Beige, wet, MARL, fmc concretions	Solvent Odor 6-17.7'
16	S-5	>9999	2.0	SM		Beige, wet, MARL, f concretions	
17		24.2		PT		Dark Brown, wet, PEAT	
18				ML		Greyish Beige, wet, MARL	
18				CH		Grey, moist, CLAY	Sampled 14-17.7' Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-7</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.280	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	1.3			BRICK and CONCRETE	
4		17.9		SP		Black and Brown, wet, f SAND, little silt, trace slag	
4	S-2	2.8	2.0	GP		Beige, wet, MARL, fmc concretions	
6				ML		Beige, wet, MARL, trace organics	
6				GP		Beige, wet, MARL, fmc concretions	
8	S-3	116	3.8	SM		Beige, wet, MARL, f concretions	
8				GP		Beige, wet, MARL, fmc concretions	
10				ML		Beige, wet, MARL	
10				PT		Dark Brown, wet, PEAT	
12	S-4	209	1.5	GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	
16	S-5	326	3.0	ML		Beige, wet, MARL, little peat	Sampled 14-18'
16				ML		Beige to Greyish Beige, wet, MARL	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB1-8	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.794	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	3.0			BRICK and CONCRETE	Petroleum Odor 0-8'
4		33.5		SP		Black, wet, f SAND, some slag	
4	S-2	15.9	1.0	SP		Black, wet, f SAND and SLAG, trace marl and concrete	Solvent Odor 8-18'
6							
8	S-3	145	3.0	GP		Beige, wet, MARL, fmc concretions	Terminated Boring at 18'
10				PT		Dark Brown, wet, PEAT	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	386	1.5	PT		Dark Brown, wet, PEAT	
12				PT		Brown, wet, PEAT, some marl	
14				GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	
16	S-5	<9999	2.5	SM		Beige, wet, MARL, f concretions, little peat	
18				ML		Beige to Greyish Beige, wet, MARL	
18				CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB1-9</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/9/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.416	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	1.7	2.5			Black, wet, fm SAND, BRICK, CONCRETE, SILT and MARL	
4							
6	S-2	4.4	1.5	SM		Beige, wet, MARL, f concretions	
8	S-3	21.7	3.5	SM		Beige, wet, MARL, f concretions, some peat	
10				PT		Brown, wet, PEAT	
12	S-4	444	3.3	GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	Solvent Odor 10-17.4'
16	S-5	>9999	3.0	ML		Beige, wet, MARL, trace peat	
18		29.3		ML CL		Beige to Greyish Beige, wet, MARL Grey, wet, SILTY CLAY	Sampled 14-17.4' Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-10</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/9/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.074	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK and CONCRETE	
2	S-1	7.4	2.0	SP		Black and Brown, wet, f SAND and SLAG	
4	S-2	29.8	2.0	SM		Beige, wet, MARL, f concretions, trace peat	Petroleum Odor 2-8'
6							
8	S-3	24.2	3.5	PT		Brown, wet, PEAT	
10							
12	S-4	59.8	3.0	SM		Beige, wet, MARL, f concretions	
14							
16	S-5	>9999	1.5	GM		Beige, wet, MARL, fm concretions	Solvent Odor 14-16.8'
18		79.4		PT		Brown, wet, PEAT, trace marl	Sampled 14-16.8'
18				CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB1-11</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/9/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.215	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK and CONCRETE	
2	S-1	1.3	3.0	SP		Black, wet, f SAND and SLAG	
				SP		Brown, wet, f SAND	
				SP		Tan, wet, f SAND	
4				ML		White, wet, MARL	
6	S-2	3.7	2.0	ML		Beige, wet, MARL, some peat	
8	S-3	59.0	4.0	ML		Beige, wet, MARL, trace peat	
				ML		Beige, wet, MARL, some peat	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	91.5	4.0	PT		Brown, wet, PEAT, trace marl	
				GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	
16	S-5	149.0	2.5	ML		Beige, wet, MARL, trace peat	
				ML		Beige, wet, MARL	
				PT		Brown, wet, PEAT	
				ML		Beige to Greyish Beige, wet, MARL	
18		2.9		CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-12</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/9/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.559	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	3.5			BRICK, CONCRETE and WOOD	Sampled 2.5-4'
		110		ML		White, wet, MARL	
4	S-1	48.9	1.0	SP		Black, wet, f SAND and SLAG	
6							
8	S-3	112	3.7	ML		Beige, wet, MARL	Sampled 10-14'
10				SM		Beige, wet, MARL, f concretions	
12	S-4	120	3.0	ML		Beige, wet, MARL	
14							
16	S-5	50.2	1.5	SM		Beige, wet, MARL, f concretions, trace peat	Sampled 14-18'
18				ML		Greyish Beige, wet, MARL	Terminated Boring at 18'
				CL		Grey, wet, SILTY CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-13</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/10/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.464	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	1.3	3.0	SP		Black, wet, f SAND and SLAG	
4	S-2	30.8	1.5	ML		Beige, wet, MARL	
6				SM		Beige, wet, MARL, f concretions	Petroleum Odor 4-10'
8	S-3	63.7	3.0	ML		Beige, wet, MARL	
10				PT		Brown, wet, PEAT	Sampled 6-10'
12	S-4	19.3		SM		Beige, wet, MARL, f concretions	
14							
16	S-5	13.4		PT		Brown, wet, PEAT, some marl	Sampled 14-17.2
18		1.2		ML		Greyish Beige, wet, MARL	
				CH		Grey, wet, CLAY, little silt	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB1-14</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/10/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.943	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	2.5			BRICK, CONCRETE and WOOD	
4		0.6		SM		Beige, wet, MARL, f concretions	
4	S-2	1.6	1.5	SM		Beige, wet, MARL, f concretions, trace peat	
6				PT		Brown, wet, PEAT	
6				GP		Beige, wet, MARL, fmc concretions	
8	S-3	23.8	3.0	SM		Beige, wet, MARL, f concretions	
8				GM		Beige, wet, MARL, fm concretions	
10				PT		Brown, wet, PEAT	Sampled 6-10'
10				SM		Beige, wet, MARL, f concretions	
10	S-4	0.2	3.0	GP		Beige, wet, MARL, fmc concretions	
10				GP		Beige, wet, MARL, fmc concretions	Refusal at 10.4'
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB1-15</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.877	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2							
4							
6							
8							
10							
12	S-1	0.5	0.5	GP		Beige, wet, MARL, fmc concretion	Drove SP-21 to 11'
14	S-2	3.8	0.5				
16	S-3	9.2	2.0	GM		Beige, wet, MARL, fm concretion	Sampled 14-17'
16				PT		Brown, wet, PEAT	
17				ML		Beige, wet, MARL	
17				PT		Brown, wet, PEAT	
18		0.4		CL		Grey, wet, SILTY CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB1-16</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/19/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/19/06	<b>Logged By:</b> Woodmansee
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						BRICK and CONCRETE	
2	S-1	114	1.5	ML		Dark Brown, wet, SILT, some organics	
4	S-2	5.8	0.3	GM		Dark Brown, wet, SILT and GRAVEL	Poor Recovery 4-6'
6							
8	S-3	NR	NR			No Recovery	No Recovery 6-10'
10							
12	S-4	15.4	1.5	GP		Beige, wet, MARL, fmc concretions	
14		9.5		ML		Beige, wet, MARL	
16	S-5	29.8	2.0	ML		Beige, wet, MARL, some peat (layers)	Sampled 15.5-17'
18		0.2		CH		Grey, moist, CLAY	Sampled 17-18'
20							Terminated Boring at 18'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.998	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR					
2	S-1	8.3	3.0	SM		GRAVEL, BRICK, CONCRETE and WOOD	
4				GM		Black, wet, fm SAND, trace silt and slag	
4	S-2	3.1	1.0	PT		Beige, wet, MARL, fm concretions	
4				PT		Dark Brown, wet, PEAT	
6				GM		Beige, wet, MARL, fm concretions	
8	S-3	3.9	3.5	SM		Beige, wet, MARL, f concretions	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	4.2	2.5	ML		Beige, wet, MARL	
14				ML		Beige, wet, MARL	
16	S-5	21.2	2.5	GP		Beige, wet, MARL, fmc concretions	Sampled 14-18'
16				ML		Beige, wet, MARL, some peat	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-2	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	
<b>Equipment:</b> ATV Mounted GeoProbe		<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.038	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	2.5			GRAVEL, BRICK, CONCRETE and WOOD	
4		3.1					
4	S-2	2.1	1.0	GP		Brown, Grey and Black, wet, f SAND, some concrete, marl, and slag	
6							
8	S-3	6.5	1.5	SM		Beige, wet, MARL, f concretions	
10							
12	S-4	5.0	3.5	ML		Beige, wet, MARL	
14				SM		Beige, wet, MARL, f concretions	
14				ML	Beige, wet, MARL		
16	S-5	>9999	3.5	SM		Beige, wet, MARL, f concretions	Solvent Odor 14-18'
16				GP		Beige, wet, MARL, fmc concretions	
18				ML		Beige and Brown, wet, MARL and PEAT (layers)	Sampled 14-18'
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.42 - 2.00 mm
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-3	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.135	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	8.1	3.5	ML		White, wet, MARL	
4				PT		Dark Grey, moist, PEAT, trace marl	
4	S-2	4.7	0.5	ML		White, wet, MARL	
6							
8	S-3	4.1	1.0	ML		Beige, wet, MARL	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	16.8	3.0	GM		Beige, wet, MARL, fmc concretions	
14							
16	S-5	1524	3.0	SM		Beige, wet, MARL, f concretions	Solvent Odor 14-17.5'
16				ML		Beige and Brown, wet, MARL and PEAT (layers)	Sampled 14-17.5'
18		24.1		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-4	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.902	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	2.5			BRICK, CONCRETE and WOOD	
4		3.9		SP		Black, wet, f SAND and PEAT, little silt	
4	S-2	6.6	1.0	SP		Black, wet, f SAND and PEAT, little silt, trace slag and metal	
6				SM		Beige, wet, MARL, f concretions	
8	S-3	6.0	2.0				
10				SM			
12	S-4	5.6	2.5			Beige, wet, MARL, f concretions with fm concretions layers	
14							
16	S-5	6.4	2.3				Sampled 14-17.6'
16				ML		Beige, wet, MARL, trace peat	
18				PT		Brown, wet, PEAT	Terminated Boring at 18'
18				CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-5	
<b>Client:</b> Pioneer Midler, LLC			
<b>Location:</b> Syracuse, NY		<b>Project No.:</b> C81.002.001	
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.251	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	12.5	2.0	ML		White, moist, MARL	
4				PT		Black, moist, PEAT	
4	S-2	7.8	2.0	SM		Beige, wet, MARL, f concretions	
6				ML		Beige, wet, MARL	
6				SM		Beige, wet, MARL, f concretions	Slight Solvent Odor 6-10'
8	S-3	621	3.8	ML		Beige, wet, MARL	Sampled 6-10'
10				PT		Brown, wet, PEAT	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	67.8	2.0	SM		Beige, wet, MARL, f concretions	
14				GM		Beige, wet, MARL, fm concretions	
14				ML		Beige and Brown, wet, MARL and PEAT	
16	S-5	99.2	3.0	ML		Beige, wet, MARL	Sampled 14- 16.7'
16				PT		Brown, wet, PEAT, little marl	
18		12.0		CH		Grey, moist, CLAY	Terminated Boring at 18'
18				CH		Grey, moist, CLAY, little fmc sand and f gravel, trace silt	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Medium	0.074 - 0.42 mm
10% - 20%	LITTLE	Fine	0.42 - 2.00 mm
1% - 10%	TRACE	GRAVEL	2.00 - 4.76 mm
			4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-6</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/6/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.378	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR		GM		Grey, wet, fmc SAND and fc GRAVEL, little silt	Sampled 0.5-4'
2	S-1	60.7	3.0	SP		Black and Brown, wet, f SAND and SLAG	
4				SP		Black, wet, f SAND and SLAG	
4	S-2	2.7	0.5	SP		Black, wet, f SAND and SLAG	Sampled 10-14'
6							
8	S-3	35.2	3.7	SM		Beige, wet, MARL, f concretions	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	51.8	3.7	SM		Beige, wet, MARL, f concretions	
14				GP		Beige, wet, MARL, fmc concretions	Terminated Boring at 18'
14				PT		Brown, moist, PEAT and WOOD	
16	S-5	41.8	2.0	SM		Beige, wet, MARL, f concretions	
16				ML		Beige and Brown, wet, MARL and PEAT	
16				PT		Brown, moist, PEAT	
18		3.1		CH		Grey, moist, CLAY	
18				CL		Grey, wet, SILT, little clay, fmc sand, and f gravel	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-7</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.204	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				CONCRETE	
2	S-1	10.9	1.3	SP		Black and Brown, moist, f SAND and SLAG	
4				SP		Black, wet, f SAND and PEAT, trace marl and slag	
6	S-2	195	2.0	ML		White, wet, MARL	Solvent Odor 4-17'
8	S-3	3155	3.8	ML		Beige, wet, MARL	Sampled 6-10'
12	S-4	161	1.5	GP		Beige, wet, MARL, fmc concretions	
16	S-5	420	3.0	GM		Beige, wet, MARL, fm concretions	Sampled 14-17'
18		13.4		SM		Brown, moist, PEAT, trace marl	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-8</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.599	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR					
2	S-1	1.3	3.0	SP		Black, wet, f SAND and SLAG	
4				SP		Tan, wet, f SAND	
4				SP		Brown, wet, f SAND	
6	S-2	3.6	1.0	SP		Black, wet, f SAND, little slag	
8	S-3	72.6	3.0	ML		Beige, wet, MARL	
10				SM		Beige, wet, MARL, f concretions	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	82.3	1.5	GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	
16	S-5	1384	2.5	PT		Brown, wet, PEAT, little marl (layers)	Solvent Odor 14-17'
18		7.3		CH		Grey, moist, CLAY	Sampled 14-17'  Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-9</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/7/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.737	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR					
2	S-1	11.3	2.5	SP		Black and Brown, wet, f SAND, SLAG and GLASS	
4	S-2	2.6	1.5	PT		Brown, wet, PEAT, trace marl	
6				PT		Brown, wet, PEAT	
8	S-3	4.2	3.5	SM		Beige, wet, MARL, f concretions	
10				PT		Brown, wet, PEAT	
12	S-4	81.9	3.3	ML		Beige, wet, MARL	
				SM		Beige, wet, MARL, f concretions	
14				GM		Beige, wet, MARL, fm concretions	
				SM		Beige, wet, MARL, f concretions	Solvent Odor 14-17.5'
16	S-5	>9999	3.0	ML		Beige, wet, MARL	
				ML		Beige, wet, MARL, trace peat	Sampled 14-17.5'
				PT		Brown, wet, PEAT	
18		16.2		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-10</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/7/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.574	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	5.6	2.0	SP		Black, wet, f SAND and SLAG	
4	S-2	1.1	2.0	ML		Beige, wet, MARL	
6							
8	S-3	0.6	3.5	GM		Beige, wet, MARL, f concretions	
10							
12	S-4	2.1	3.0	GP		Beige, wet, MARL, fmc concretions	
14							
16	S-5	82.9	1.5	GM		Beige, wet, MARL, fm concretions	Sampled 14-17.5'
18				PT		Brown, wet, PEAT, trace marl	Terminated Boring at 18'
18				CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-11</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.656	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	22.6	3.0	SP		Black and Brown, wet, f SAND, little slag, trace silt	
4				SP		Black, wet, f SAND, little silt, trace slag	
4	S-2	1.2	2.0	ML		Beige, wet, MARL, trace peat	
6				GM		Beige, wet, MARL, fm concretions	
8	S-3	0.3	4.0				
10				SM		Beige, wet, MARL, f concretions	
12	S-4	0.6	4.0				
14				GM		Beige, wet, MARL, fm concretions	
16	S-5	158	2.5	SM		Beige, wet, MARL, f concretions	Sampled 14-18'
16				ML		Beige, wet, MARL	
18				PT		Brown, wet, PEAT	Terminated Boring at 18'
18				CH		Grey, moist, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-12	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.291	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	2.1	3.5	SP		Black and Brown, wet, f SAND and SLAG, trace silt	
4	S-1	0.8	1.0	PT		Dark Brown, moist to wet, PEAT	
6				GP		Beige, wet, MARL, fmc concretions	
				SM		Beige, wet, MARL, f concretions	
8	S-3	7.3	3.7	ML		Beige, wet, MARL	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	49.7	3.0	GP		Beige, wet, MARL, fmc concretions	
14				GM		Beige, wet, MARL, fm concretions	
				GP		Beige, wet, MARL, fmc concretions	
				GM		Beige, wet, MARL, fm concretions	
16	S-5	169.0	1.5	ML		Beige, wet, MARL, little peat	Sampled 14-17.5'
				PT		Brown, wet, PEAT	
18		3.1		CH		Grey, moist, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-13</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.694	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	NR	3.0	GM		Grey, wet, fmc SAND and fc GRAVEL, little silt	Sampled 6-10'  Refusal at 11.5'
2		0.8		SP		Black, wet, f SAND and SLAG	
4	S-2	1.9	1.5	SP		Black, wet, f SAND, trace slag	
6				PT		Dark Brown, wet, PEAT	
8	S-3	516	3.0	ML		Beige, wet, MARL, trace peat	
10	S-4	NR	0.0	PT		Dark Brown, wet, PEAT	
12				GP		Beige, wet, MARL, fmc concretions	
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-14</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.657	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR		GM		Grey, wet, fmc SAND and fc GRAVEL, little silt	
2	S-1	0.6	2.5	SP		Black, moist, f SAND, trace brick and slag	
4	S-2	3.4	1.5	PT		Dark Brown, wet, PEAT	
6				ML		Beige, wet, MARL	
8	S-3	7.0	3.0	SM		Beige, wet, MARL, f concretions	
10				GP		Beige, wet, MARL, fmc concretions	
12	S-4	1.4	3.0	GM		Beige, wet, MARL, fm concretions	
14				GP		Beige, wet, MARL, fmc concretions	
16	S-5	140	2.5	SM		Beige, wet, MARL, f concretions	Sampled 14-17'
18		6.4		ML		Beige, wet, MARL, little peat	
				PT		Brown, wet, PEAT	
				CH		Grey, wet, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-15	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 422.084	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR		GM		Grey, wet, fmc SAND and fc GRAVEL, some silt	Terminated Boring at 18'
2	S-1	6.7	2.5	SP		Black and Brown, wet, f SAND, some slag	
4	S-2	0.6	2.0	ML		White, wet, MARL	
6				ML		Beige, wet, MARL	
8	S-3	10.7	4.0	ML		Beige, wet, MARL	
10				SM		Beige, wet, MARL, f concretions, trace peat	
10				PT		Brown, wet, PEAT	
10				SM		Beige, wet, MARL, f concretions, trace peat	
12	S-4	27.3	3.0	GM		Beige, wet, MARL, f concretions with fm concretions layers	
14				PT		Brown, wet, PEAT	
14		19.7		ML		Beige, wet, MARL, trace peat	
16	S-5		4.0	PT		Beige, wet, MARL, f concretions, trace peat	
16		0.7		CH		Grey, moist, CLAY	
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-16</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.941	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	NR	3.5	GM		Grey, wet, fmc SAND and fc GRAVEL, some brick and concrete, trace silt	Sampled 10-14'
2		12.8		ML		White, wet, MARL	
4				PT		Greyish Brown, wet, PEAT	
4	S-2	3.6	2.0	ML		White, wet, MARL	
6	S-3	29.0	2.0	SM		Beige, wet, MARL, f concretions	
8				GM		Beige, wet, MARL, fm concretions	
10				SM		Beige, wet, MARL, f concretions	
10				PT		Brown, wet, PEAT	
10	S-4	7.1	2.0	SM		Beige, wet, MARL, f concretions, trace peat	
12				SM		Beige, wet, MARL, f concretions	
12				GM		Beige, wet, MARL, fm concretions	
14	S-5	68.9	3.0	ML		Beige, wet, MARL, trace peat	
16				ML		Beige, wet, MARL, little peat	
18				PT		Brown, wet, PEAT	
18				CH		Grey, moist, CLAY	
18		0.8		CL		Grey, moist, CLAY, some fc gravel	Terminated boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.42 - 2.00 mm
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-17</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.640	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				GRAVEL, BRICK, CONCRETE and WOOD	
2	S-1	1.2	2.3	SP		Brown, wet, fmc SAND, trace silt	
4	S-2	0.9	0.5	SP		Brown, wet, fmc SAND, little marl and slag, trace silt	
8	S-3	0.2	3.0	SM		Beige, wet, MARL, f concretions	
12	S-4	3.5	2.5	GM		Beige, wet, MARL, fm concretions	
16	S-5	624	2.0	SM		Beige, wet, MARL, f concretions	Sampled 14-18'
18				SM		Beige, wet, MARL, f concretions, trace peat	
18				PT		Brown, wet, PEAT	
20	S-6	3.4	4.0	CH		Grey, moist, CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-17</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/8/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 421.640	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	3.4	4.0	CL		Grey, wet, SILTY CLAY	Terminated Boring at 22'
				CL		Grey, moist, SILTY CLAY, trace f sand (partings)	
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-18	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	6.3	2.0	SP		Black and Brown, moist to wet, fmc SAND and SLAG	
4	S-2	6.2	2.0	SP		Black and Brown, wet, fm SAND, trace slag	
6				PT		Dark Brown, wet, PEAT	
8	S-3	>9999	2.0	ML		Beige, wet, MARL	Solvent Odor 6-10'
10				PT		Brown, wet, PEAT, little marl	Sampled 6-10'
12	S-4	183	3.2	SM		Beige, wet, MARL, f concretions	
14				GP		Beige, wet, MARL, fmc concretions	
14				SM		Beige, wet, MARL, f concretions	
14				PT		Brown, wet, PEAT	
16	S-5	683	3.5	ML		Beige, wet, MARL, little peat	Sampled 14-16.9'
18		30		PT		Brown, wet, PEAT	
18				CH		Grey, moist, CLAY	Terminated Boring at 18'
18				CH		Grey, moist, CLAY, trace f sand (partings)	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-19	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	3.8	1.5	GP		Brown, wet, fmc SAND, fc GRAVEL and BRICK	
4	S-2	1.2	0.5	GP		Brown, wet, fmc SAND, fc GRAVEL and BRICK, trace marl	
8	S-3	0.2	3.5	SM		Beige, wet, MARL, f concretions	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	0.6	3.0	SM		Beige, wet, MARL, f concretions	
14				GM		Beige, wet, MARL, fm concretions	
16	S-5	7.2	3.5	SM		Beige, wet, MARL, f concretions	Sampled 14-18'
18				ML		Beige, wet, MARL	
18				PT		Brown, wet, PEAT	
18	S-6	0.2	2.0	CH		Grey, moist, CLAY	
20				CH		Grey, moist, CLAY, trace f sand (partings)	Terminated Boring at 20'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-20</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	6.9	2.2	SP		Black and Brown, moist to wet, fmc SAND and SLAG	
4	S-2	26.9	2.0				
6				PT		Dark Brown, wet, PEAT, some f SAND	
8	S-3	1.4	0.4	SM		Beige, wet, MARL, f concretions	Poor Recovery, Piece of Wood in Tube
10	S-4	0.3	0.3	GP		Beige, wet, MARL, fmc concretions	
12							Refusal at 11.5
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
		Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
1% - 10%	TRACE	GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-21</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	2.8	3.0	SP		Black and Brown, moist to wet, fmc SAND and SLAG	Sampled 6-10'
4	S-2	7.6	2.0				
6				PT		Dark Brown, wet, PEAT	
8	S-3	23.2	3.0	ML		Beige, wet, MARL	
10				PT		Brown, wet, PEAT	
10				GM		Beige, wet, MARL, fm concretions	
12	S-4	1.5	3.2	GP		Beige, wet, MARL, fmc concretions	
14				PT		Brown, wet, PEAT, trace marl	
14		3.0		SM		Beige, wet, MARL, f concretions	
16	S-5	0.1	3.0	PT		Dark Brown, wet, PEAT	
16				CH		Grey, moist, CLAY	
18				CL		Grey, moist, CLAY, little fmc sand and f gravel	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-22</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	21.4	3.2	SP		Black and Brown, moist to wet, fmc SAND, f GRAVEL and SLAG	
4	S-2	0.1	1.0	SP		Black, wet, f SAND	
6				PT		Brown, wet, PEAT	
8	S-3	>9999	2.5	SM		Beige, wet, MARL, f concretions	Solvent Odor 6-10'
10				PT		Brown, wet, PEAT	Sampled 6-10'
10				GM		Beige, wet, MARL, fm concretions	
10				PT		Brown, wet, PEAT	
12	S-4	NR	1.0	GP		Beige, wet, MARL, fmc concretions	Refusal at 11.8'
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-23	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0					//	ASPHALT	
2	S-1	1.3	1.5	SP	••••	Black and Brown, moist to wet, fmc SAND, f GRAVEL and SLAG	Terminated Boring at 4'
4							
6							
8							
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB3-24</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18-19/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18-19/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	13.6	2.0	SP		Black and Brown, moist to wet, fmc SAND, f GRAVEL and SLAG	
4	S-2	0.1	2.0	SP		Black, wet, fm SAND	
6				ML		Beige, wet, MARL	
8	S-3	5.1	3.0	GM		Beige, wet, MARL, fm concretions, trace peat	Sampled 6-10'
10				PT		Brown, wet, PEAT	
12	S-4	2.1	1.0	GP		Beige, wet, MARL, fmc concretions	Refusal at 11.6'
14		NR					Aurged to 13'
16	S-5	0.1	2.3	ML		Beige, wet, MARL	
18		0.3		ML		Beige, wet, MARL, some peat (layers)	Sampled 15.5-17'
20	S-6	0.0	3.5	CH		Grey, moist, CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> GPB3-25	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 4/18/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b>	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2							
4							
6		NR					
8							
10						Drove Directly to 11'	Drove Directly to 11'
				GP		ASSUMED: Beige, wet, MARL, fmc concretions	Refusal at 11'
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB5-1</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/9/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.090	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	0.9	3.5	SP		Brown, wet, fm SAND, some slag	
				SP		Brown, wet, f SAND, trace slag	
4				GP		CONCRETE	
6	S-2	0.7	1.0				
8	S-3	6.9	3.7	SM		Beige, wet, MARL, f concretions	
10							
12	S-4	20.2	3.0	GP		Beige, wet, MARL, fmc concretion	
				SM		Beige, wet, MARL, f concretions	
14				GP		Beige, wet, MARL, fmc concretion	
				SM		Beige, wet, MARL, f concretions	
16	S-5	78.1	3.0	ML		Beige, wet, MARL, trace peat	Sampled 14-18'
				PT		Brown, wet, PEAT	
18				ML		Greyish Beige, wet, MARL	Terminated Boring at 18'
				CH		Grey, wet, CLAY	
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPB5-2</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	
<b>Contractor:</b> Lyon Drilling Co.		<b>Date:</b> 3/9/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.347	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0							
2	S-1	NR	3.0			BRICK, CONCRETE and WOOD	
4		0.4		SP		Black, wet, f SAND	
4	S-2	0.7	0.7	ML		White, wet, MARL	
6				ML		Beige, wet, MARL	
8	S-3	20.0	3.4			Beige, wet, MARL, f concretions	
10				SM		Beige, wet, MARL, f concretions	
12	S-4	32.6	2.5			Beige, wet, MARL, fm concretions	
14				GM		Beige, wet, MARL, fm concretions	
16	S-5	88.5	3.5			Beige, wet, MARL	Sampled 14-17.5'
16				ML		Beige, wet, MARL	
18		1.7		ML		Greyish Beige, wet, MARL	
18				CH		Grey, wet, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	0.074 - 0.42 mm
10% - 20%	LITTLE	Coarse	0.42 - 2.00 mm
1% - 10%	TRACE	Medium	2.00 - 4.76 mm
		Fine	4.76 - 76 mm
		GRAVEL	



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPB5-3</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/9/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.055	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR				BRICK, CONCRETE and WOOD	
2	S-1	7.5	3.5	SP		Tan, moist, f SAND, little silt	
4				SP		Black and Brown, wet, f SAND, little slag	
4				GP		BRICK and CONCRETE	
6	S-2	3.0	0.5				
8	S-3	11.9	3.0	SM		Beige, wet, MARL, f concretions	Sampled 6-10'
10							
12	S-4	13.5	3.5				Sampled 10-14'
14				GM		Beige, wet, MARL, fm concretions	
16	S-5	15.7	2.5	ML		Beige, wet, MARL	Sampled 14-17'
16				PT		Brown, wet, PEAT, little marl	
18		0.6		CH		Grey, wet, CLAY	Terminated Boring at 18'
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Surface Elevation:</b> 419.740
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Depth to Water:</b> NA	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	NR	2.2	SP		Brown, wet, fmc SAND and fc GRAVEL, some silt	Sampled 2-4'
4		192		SP		Black, wet, f SAND, little slag, trace brick and concrete	
4	S-2	62.5	2.0	PT		Black, wet, PEAT	Petroleum Odor 2-4.8'
6		5.9		ML		Beige, wet, MARL	
8	S-3	6.1	4.0	SM		Beige, wet, MARL, f concretions	Sampled 4.8-10'
10				ML		Beige, wet, MARL	
12	S-4	32.3	4.0	SM		Beige, wet, MARL, f concretions	Sampled 14-18'
14				ML		Beige, wet, MARL	
16	S-5	47.1	3.5				
18	S-6	13.6	3.5	PT		Brown, wet, PEAT	
				ML		Beige, wet, MARL	
		PT			Brown, wet, PEAT		
		ML			Greyish Biege, moist, MARL		
20		1.0		CH		Grey, moist, CLAY	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium	0.42 - 2.00 mm
1% - 10%	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-1</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.740	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	1.0	3.5	CL		Grey, wet, SILTY CLAY	Terminated Boring at 22'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%		SILT AND CLAY	< 0.074 mm
20% - 40%	AND	SAND	
10% - 20%	SOME	Coarse	0.074 - 0.42 mm
1% - 10%	LITTLE	Medium	0.42 - 2.00 mm
	TRACE	Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPCS-2</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.081	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0		NR		GM		ASPHALT	
2	S-1	96.7	3.0	SP		Greyish Brown, moist, fmc SAND and fc GRAVEL, little silt	Sampled 1.3-4'
4						Black and Brown, wet, f SAND and SLAG, trace brick and silt	
4	S-2	34.4	2.0	ML		White, wet, MARL	Petroleum Odor 1.3-5'
6							
8	S-3	2.9	3.8	ML		Beige, wet, MARL	
10							
12	S-4	15.2	3.7	SM		Beige, wet, MARL, f concretions	
14							
16	S-5	22.6	3.7	ML		Beige, wet, MARL, trace organics	Sampled 14-18'
18							
18		10.5		PT		Brown, PEAT, trace marl	
18				ML		Beige, wet, MARL	
18				PT		Brown, wet, PEAT	
18				ML		Beige, wet, MARL	
18	S-6	0.5	2.0	CH		Greyish Beige, moist, MARL	
18				ML		Grey, moist, CLAY	
20				CL		Grey, moist, SILTY CLAY	Terminated Boring at 20'

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.074 - 0.42 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm





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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <span style="border: 1px solid black; padding: 2px;">GPCS-3</span>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.255	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	NR	3.0	GM		Grey, wet, fmc SAND and fc GRAVEL, trace silt	Sampled 3.4-6'  Petroleum Odor 3.4-6'
4		128					
4	S-2	53.3	0.4	SP		Black, wet, f SAND and SLAG	
6				SM		Beige, wet, MARL, f concretions	
8	S-3	19.5	3.5	ML		Beige, wet, MARL	
10							
12	S-4	9.2	4.0	SM		Beige, wet, MARL, f concretions	Sampled 14-18'
14							
16	S-5	24.5	3.7	ML		Beige, wet, MARL, f concretions, some peat	
18				ML		Greyish Beige, moist, MARL	Terminated boring at 20'
20	S-6	3.1	2.0	ML		Grey, moist, CLAY	
20		0.5		CH			

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.42 - 2.00 mm
10% - 20%	LITTLE	Medium Sand	2.00 - 4.76 mm
1% - 10%	TRACE	Fine Sand	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-4</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.363	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0	S-1	NR	3.0	SP		Black and Brown, wet, f SAND, little slag	Sampled 2.2-4'
0.5				SP		Black, wet, f SAND, SLAG and ASH	
1.0				GW		BRICK and CONCRETE	
2.0	0.8	SP		Black and Brown, wet, f SAND, trace slag			
3.0	S-2	0.3	2.0	PT		Black, wet, PEAT	
3.5				ML		White, wet, MARL	
4.0	S-3	0.4	4.0	ML		Beige, wet, MARL	
5.0				SM		Beige, wet, MARL, f concretions	
6.0	S-4	3.3	3.7	SM		Beige, wet, MARL, f concretions	
7.0				SM		Beige, wet, MARL, f concretions	
8.0	S-5	26.8	3.0	SM		Beige, wet, MARL, f concretions	
9.0				SM		Beige, wet, MARL, f concretions	
10.0	S-6	12.8	3.0	ML		Beige, wet, MARL, little peat	
11.0				ML		Greyish Beige, moist, MARL	
12.0	S-6	0.5	3.0	ML		Beige, wet, MARL, little peat	
13.0				ML		Greyish Beige, moist, MARL	

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY SAND	< 0.074 mm
20% - 40%	SOME	Coarse Sand	0.42 - 2.00 mm
10% - 20%	LITTLE	Medium Sand	0.42 - 2.00 mm
1% - 10%	TRACE	Fine Sand	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-4</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Eastng:</b> NA	<b>Surface Elevation:</b> 420.363	<b>Logged By:</b> T. Wirickx
<b>Northng:</b> NA			<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
22	S-6	0.5	3.0	CL		Grey, wet, SILTY CLAY	Terminated Boring at 21'
24							
26							
28							
30							
32							
34							
36							
38							
40							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-5</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.		<b>Logged By:</b> T. Wirickx	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 419.297	

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	NR	2.0	GM		Grey, wet, fmc SAND and fc GRAVEL, trace silt	Sampled 2-4'
4		10.6		SP		Black and Brown, wet, f SAND, some slag	
6	S-2	2.5	1.0	ML		Beige, wet, MARL	
8		3.6					
10							Terminated Boring at 8'
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm



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# SOIL BORING LOG

<b>Project:</b> Midler Ave.		<b>Soil Boring ID:</b> <b>GPCS-6</b>	
<b>Client:</b> Pioneer Midler, LLC		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Syracuse, NY		<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06
<b>Contractor:</b> Lyon Drilling Co.	<b>Equipment:</b> ATV Mounted GeoProbe	<b>Date:</b> 3/13/06	<b>Logged By:</b> T. Wirickx
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> 420.523	<b>Depth to Water:</b> NA

Depth (ft.)	Sample Number	PID Reading (ppm)	Recovery (ft.)	Soil Classification	Graphic Log	Physical Description Lithology	Remarks
0						ASPHALT	
2	S-1	NR	3.0	SP		Black and Brown, wet, f SAND, some slag	Petroleum Odor and Sheen 4-4.5'
		0.2					
4	S-2	37.2	3.3	PT		Brown, wet, PEAT	Sampled 4-6'
6							
8		3.3					
10							
12							
14							
16							
18							
20							

NON COHESIVE		COHESIVE	
BLOWS FT.	DENSITY	BLOWS FT.	DENSITY
0-4	VERY LOOSE	0-2	VERY SOFT
4-10	LOOSE	2-4	SOFT
10-30	MEDIUM COMPACT	4-8	MEDIUM STIFF
30-50	COMPACT	8-15	STIFF
50+	VERY COMPACT	15-30	VERY STIFF

FIELD SOIL CLASSIFICATION			
% COMPOSITION	MODIFIER	DESCRIPTION	GRAIN SIZE
40% - 50%	AND	SILT AND CLAY	< 0.074 mm
20% - 40%	SOME	SAND	
10% - 20%	LITTLE	Coarse	0.074 - 0.42 mm
1% - 10%	TRACE	Medium	0.42 - 2.00 mm
		Fine	2.00 - 4.76 mm
		GRAVEL	4.76 - 76 mm

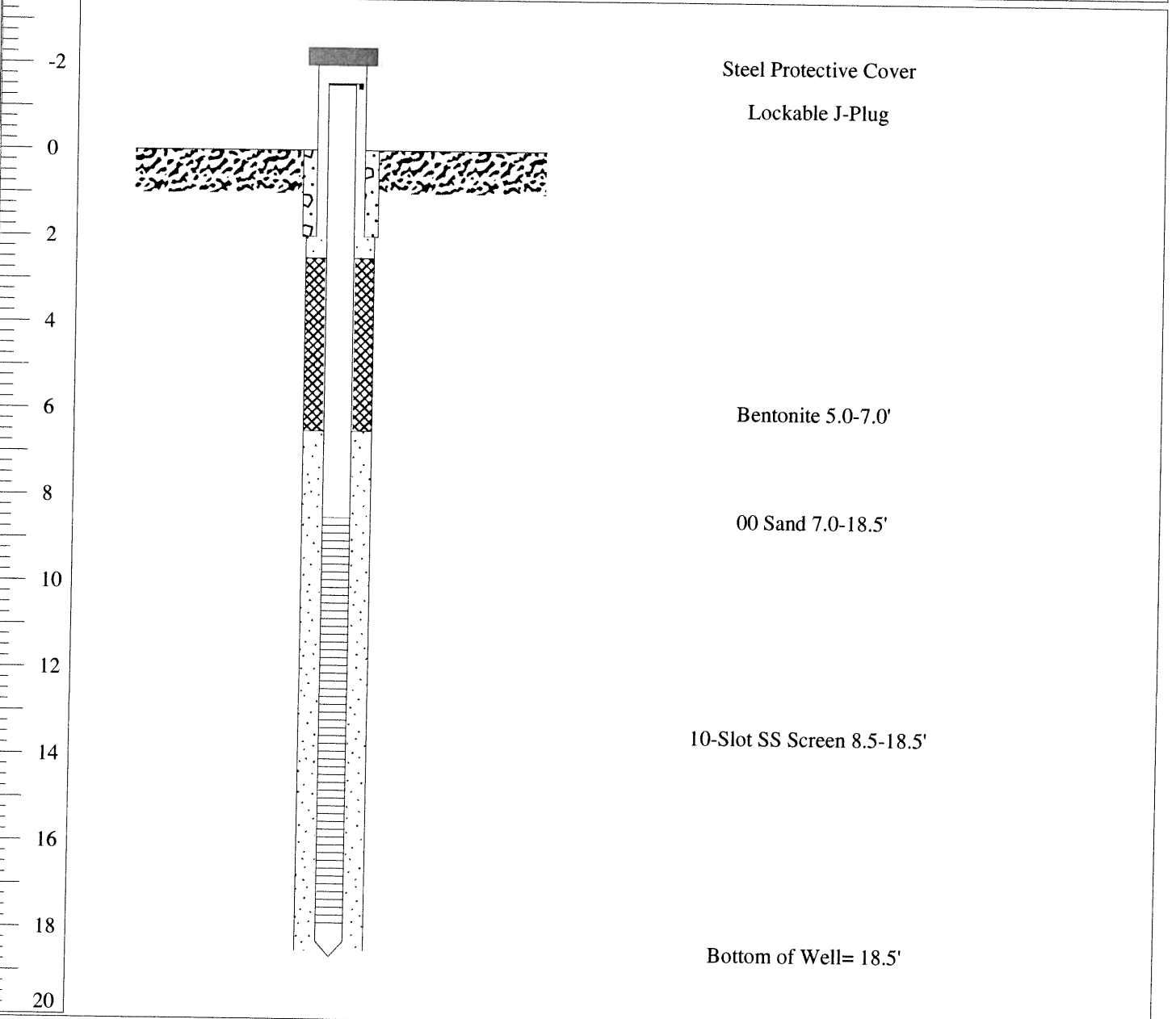


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> MW-12D	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> April 21, 2006	
<b>Contractor:</b> North Star	<b>Equipment:</b> CME-45	<b>Logged By:</b> T. Wirickx	
<b>Northing:</b> NA	<b>Easting:</b> NA	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA

Depth (ft.)	Well Schematic	Well Construction Details
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At Grade Material	Grout	Sand
Concrete	Bentonite	Groundwater

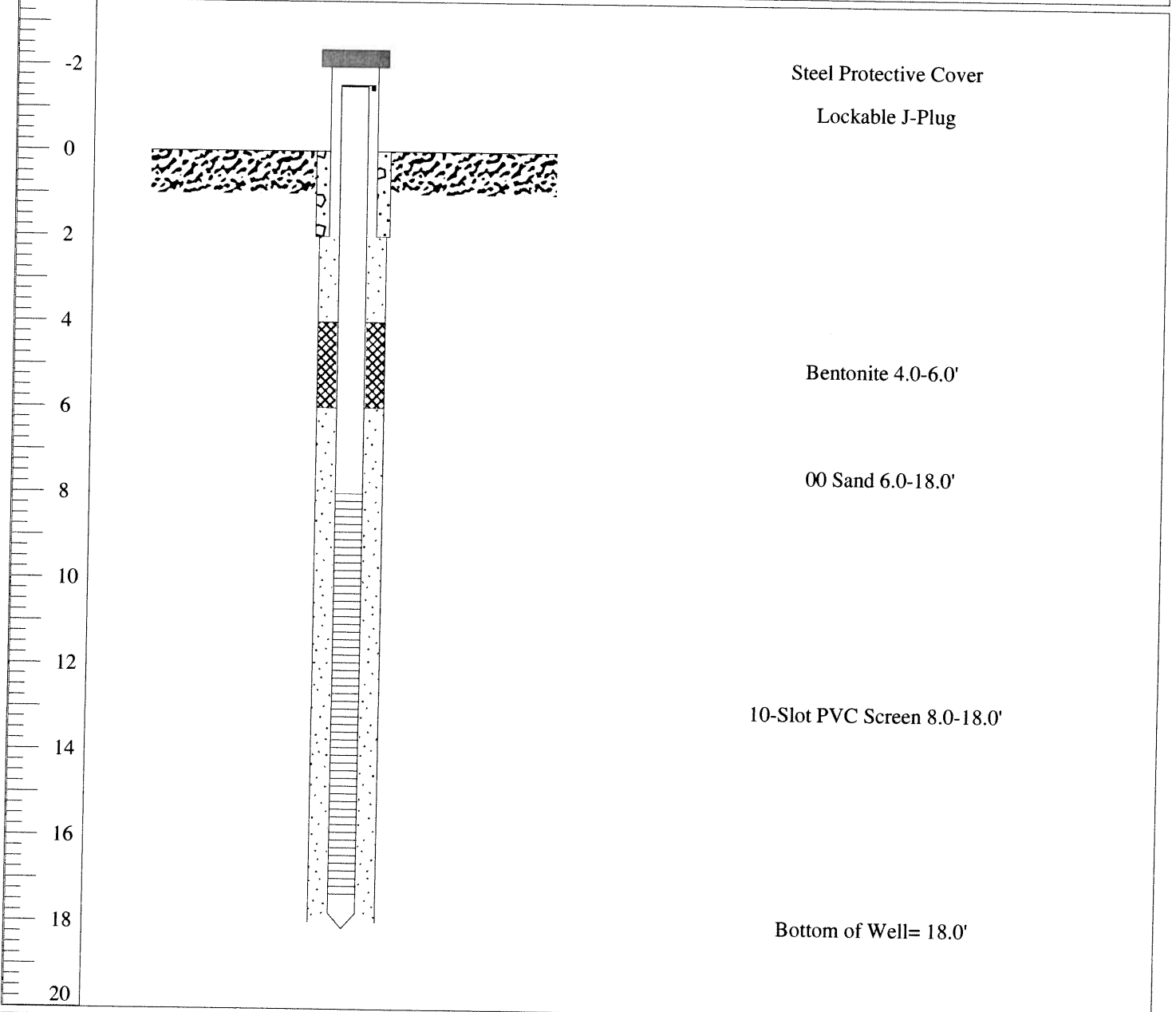


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> MW-13D	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> April 24, 2006	<b>Logged By:</b> T. Wirickx
<b>Contractor:</b> North Star	<b>Equipment:</b> CME 55	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA		

Depth (ft.)	Well Schematic	Well Construction Details
-------------	----------------	---------------------------



	At Grade Material		Grout		Sand
	Concrete		Bentonite		Groundwater

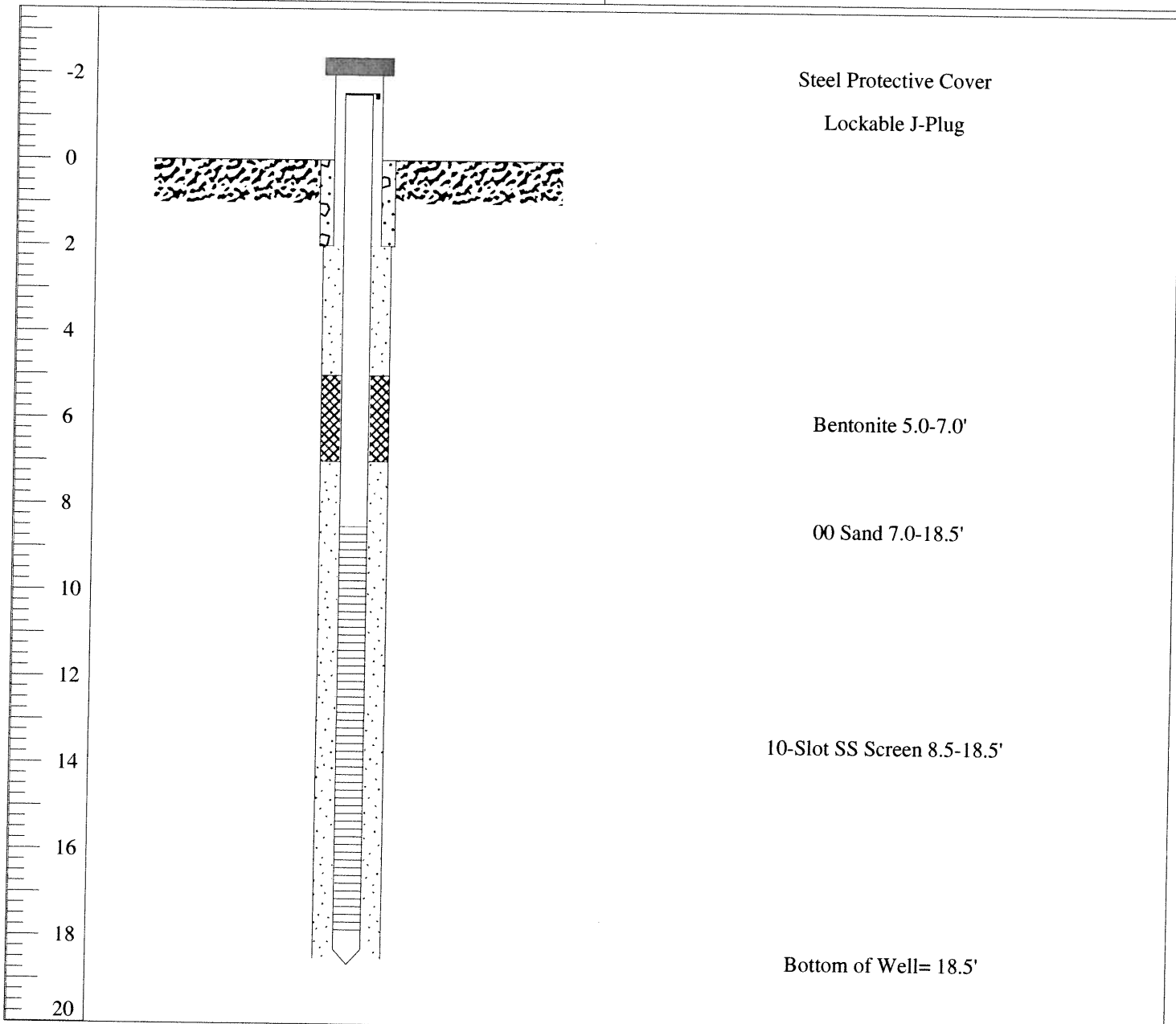


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# MONITORING WELL LOG

<b>Project:</b> Midler Ave		<b>Monitoring Well ID:</b> MW-12D-R	
<b>Client:</b> Pioneer Midler, LLC.		<b>Project No.:</b> C81.002.001	
<b>Location:</b> Midler Ave.		<b>Date:</b> July 23, 2007	<b>Logged By:</b> T. Wirickx
<b>Contractor:</b> Parrott-Wolfe	<b>Equipment:</b> CME 55	<b>Surface Elevation:</b> NA	<b>Depth to Water:</b> NA
<b>Northing:</b> NA	<b>Easting:</b> NA		

Depth (ft.)	Well Schematic	Well Construction Details
-------------	----------------	---------------------------



At Grade Material	Grout	Sand
Concrete	Bentonite	Groundwater



# **GEOTECHNICAL BORING LOGS**



**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

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**Boring ID:** LB-1  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 8, 2004  
**Start:** 0940  
**Finish:** 1045  
**C&S Rep.:** Tom Wirickx

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	20	19	0.1	Dark Brown, Wet, F-M-C Sand and F-M-C Gravel, with Trace Silt, Asphalt, and Slag	
2						
3	2	17	11	0.2	6" of Light Brown, Moist, F-M-C Sand, with Trace Slag 11" of Dark Brown -to- Black, Moist, F-M-C Sand, with Trace Slag	
4						
5	3	15	5	0.1	Black, Wet, F-M-C Sand, with Trace F-M Gravel and Slag	Groundwater at Approx. 4'
6						
7	4	16	6	0.7	6" of Black, Wet, F-M-C Sand, with Trace F-M Gravel and Slag 3" of Dark Brown -to- Red, Moist, Peat 7" of Dark Brown -to- Red, Moist, Marl and Peat	
8						
9	5	16	2	2.3	5" of Dark Brown, Moist, Marl 11" of Dark Brown -to- Red, Moist, Marl and Peat	
10						
11	6	13	WH	1.5	Dark Brown -to- Red, Moist, Marl and Peat	
12						
13	7	14	12	2.0	Dark Brown -to- Red, Moist, Marl, with Some Peat	Wood in Tip of Shoe
14						
15	8	14	5	3.2	Dark Brown -to- Red, Moist, Marl, with Trace Peat, Wood, and Shells	
16						
17	9	12	8	5.0	6" of Dark Brown -to- Red, Moist, Marl, with Trace Peat, Wood, and Shells 3" of Dark Brown -to- Red, Moist, Peat	
18						
19	10	6	24	5.0	3" of Dark Brown -to- Red, Moist, F-M-C Sand and F Gravel, with Little Silt 3" of Dark Brown -to- Red, Moist, Silt, F-M-C Sand, and F-M Gravel	Bottom Layer Appears to be Till
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:**  
 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 Geotechnical Samples: 23 - 25' = Till  
 28 - 30' = Till

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Lowe's Home Center on Midler Avenue, Syracuse, NY  
**Client:** Pioneer Midler Avenue, LLC  
**Location of Boring:** See Boring Location Sketch

**Report No.:** 25667B-01-1204  
**Date Started:** 11/08/04 **Finished:** 11/08/04  
**Elevation of Surface of Boring:** 423.4'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger **Driller:** Alan Linstruth  
**Casing Hammer:** **Driller:** Jeremy Walshvelo  
**Other:** **Inspector:**  
**Soil Sampler:** 2" OD Split Barrel **Rod Size:** AWJ  
**Sampler Hammer:** Wt. 140 lbs. **Fall:** 30 in.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/08/04	While drilling	4.9'	4.0'
11/08/04	Before casing removed	16.5'	28.0'
11/08/04	After casing removed	4.0'	out
11/08/04	After casing removed	Caved @ 5.0'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or QRD
			From	To					
0	XXX	1a	0.0	0.5	SS/20	7-7-6-8		Grey/Brown cmf SAND and cmf GRAVEL, trace SILT (moist)	13
	H	1b	0.5	2.0				Brown mf SAND (moist)	
5	O	2	2.0	4.0	SS/14	3-3-2-2		Black mf Foundry SAND, trace Beige MARL, trace CINDERS (saturated) ~ Unprepared Miscellaneous Fill ~	5
	L	3	4.0	6.0	SS/12	4-9-8-5		Black mf Foundry SAND, some SLAG/CINDERS (saturated)	17
10	L	4a	6.0	7.5	SS/18	5-6-3-2	7.5	Black mf SAND, trace ORGANICS (saturated)	9
	O	4b	7.5	8.0				Black PEAT, some Beige MARL (saturated)	
15	W	5	8.0	10.0	SS/18	2-1-1-2		Similar Soil (saturated)	2
	S	6	10.0	12.0	SS/6	3-2-2-2		Similar Soil (saturated)	4
20	T	7	12.0	14.0	SS/12	4-2-1-1		Brown PEAT and Beige MARL (saturated)	3
	E	8a	14.0	15.0	SS/8	2-1-2-2	15.0	Similar Soil (saturated)	3
25	M	8b	15.0	16.0			16.0	Grey CLAY, some SILT (wet, soft)	
	A	9a	16.0	17.5	SS/16	2-1-3-13	17.5	Brown PEAT, trace MARL (wet, medium stiff)	4
20		9b	17.5	18.0			18.0	Grey CLAY, trace SILT (saturated, very stiff)	
	U	10	18.0	20.0	SS/10	11-7-9-8		Grey/Brown cmf GRAVEL, some cmf SAND, some SILT (saturated, medium compact)	16
25	G						20.0		
	E	11	23.0	25.0	SS/10	5-5-6-4		Pinkish-Brown cmf SAND, some SILT, some mf GRAVEL, trace CLAY (moist, medium compact) ~ SM ~	11

Boring continued on Page 2

\*SS - Split Spoon, U - Undisturbed Tube, C - Core

Remarks:

LOG OF BORING SAMPLES

CLASSIFICATION OF MATERIAL

Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
30	XXX H S A  XXX	12	28.0	30.0	SS/12	11-9-10-8			Boring continued from Page 1  Pinkish-Brown cmf SAND and SILT, little CLAY, trace fine GRAVEL (saturated, medium compact)  ~ Glacial Till ~  Bottom of Boring @ 30.0'	19
35										
45										
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core

Remarks:



**ENGINEERS**  
DESIGN BUILD  
TECHNICAL RESOURCES  
OPERATIONS

C&S Engineer  
499 Col. Eileen Collins  
Syracuse, New York  
Phone: (315) 451-  
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**Boring ID:** LB-3  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 10, 2006  
**Start:** 1420  
**Finish:** 1530  
**C&S Rep.:** Tom Wirickx

DEPTH (FU)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	14	9	0.1	6" of Grey -to- Brown, Moist, F-M-C Sand and F-M Gravel 8" of Black, Moist, F-M-C Sand, with Some F Gravel and Trace Slag	
2						
3	2	14	11	0.3	Black -to- Brown, Moist, F-M-C Sand, with Some F Gravel and Trace Slag and Silt	
4						
5	3	12	4	0.4	6" of Dark Brown -to- Red, Wet, Marl 6" of Dark Brown -to-Red, Moist, Marl	Groundwater at Approx. 4.5'
6						
7	4	8	1	1.1	Dark Brown -to- Red, Moist, Peat, with Trace Marl and Wood	
8						
9	5	16	WH	1.0	4" of Dark Brown -to- Red, Moist, Peat and Wood 12" of Dark Brown -to- Red, Wet Marl with Concretions	
10						
11	6	12	6	0.4	Dark Brown -to- Red, Moist, Peat and Wood	
12						
13	7	4	4	0.2	Grey, Wet, Clay, with Trace F-M-C Sand, F Gravel, Marl, and Peat	
14						
15	8	16	13	0.2	Grey, Wet, Silt, with Little F Sand and Trace Clay	
16						
17	9	9	19	0.2	Grey, Moist, Silt and F-M-C Sand, with Some F-M-C Gravel	
18						
19	10	12	29	0.1	Grey -to- Red -to- Brown, Moist, Silt and F-M-C Sand, with Some F-M-C Gravel	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
" WH " denotes an N-Value equivalent to Weight of Hammer  
Background PID = 0.0 - 0.1  
Geotechnical Samples: 23.5 - 25.5' = Brown -to- Red, Wet, Silt, with Some F-M-C Sand and F-M Gravel, and Trace Clay  
28 - 30' = Till

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Lowe's Home Center on Midler Avenue, Syracuse, NY  
**Client:** Pioneer Midler Avenue, LLC  
**Location of Boring:** See Boring Location Sketch  
**Report No.:** 25667B-01-1204  
**Date Started:** 11/15/04 **Finished:** 11/15/04  
**Elevation of Surface of Boring:** 423.0'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger  
**Casing Hammer:**  
**Other:**  
**Soil Sampler:** 2" OD Split Barrel  
**Sampler Hammer:** Wt. 140 lbs.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted  
**Driller:** Alan Linstruth  
**Driller:** Jeremy Walshvelo  
**Inspector:**  
**Rod Size:** AWJ  
**Fall:** 30 in.

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/15/04	While drilling	7.6'	8.0'
11/15/04	Before casing removed	25.7'	28.5'
11/15/04	After casing removed	4.0'	out
11/15/04	After casing removed	Caved @ 16.8'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX	1a	0.0	0.3	SS/18	4-7-3-2	0.3	TOPSOIL (moist)	10
		1b	0.3	2.0			2.0	Brown cmf SAND, little SLAG, trace SILT, trace CLAY, trace Red BRICK (moist) ~ Unprepared Miscellaneous Fill ~	
5	H	2	2.0	4.0	SS/24	1-1-1-1	2.0	Beige MARL, some Black PEAT (moist)	2
		3	4.0	6.0				WH-1-WH-1	
5	L	4a	6.0	7.7	SS/18	2-1-WH-WH	7.7	Beige MARL (wet)	1
		4b	7.7	8.0				WH-WH-1-2	
10	O	5	8.0	10.0	SS/16	WH-WH-1-2	10.5	Similar Soil (saturated, very stiff)	11
		6a	10.0	10.5				WH-7-4-12	
15	L	7	12.0	14.0	SS/8	13-9-10-9	14.0	Similar Soil (saturated, medium compact)	19
		8	14.0	16.0				4-4-6-16	
15	O	9	16.0	18.0	SS/14	6-5-7-5	21.9	Similar Soil (saturated, stiff)	12
		10	18.0	20.0				7-8-10-12	
20	W	11	23.5	25.0	SS/12	34-60-85	21.9	Harder auger advancement @ 21.9' Similar Soil (moist, hard)  ~ Glacial Till ~	145
		11	23.5	25.0				34-60-85	

Continued on Page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES

CLASSIFICATION OF MATERIAL

Depth Scale (t)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	CLASSIFICATION OF MATERIAL		SPT "N" or RQD
			From	To				c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	
25	H S A	12a	28.5	29.7	SS/14	55-20-28	28.5	Continued from page 1		48
								29.7	Red SILT, some cmf SAND, little interlayered SILTSTONE fragments, trace fine GRAVEL	
		12b	29.7	30.0			Green SILTSTONE (moist)			
30	XXX					Bottom of Boring @ 30.0'				
35										
45										
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
Remarks:



**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

**C&S Engineers, Inc.**  
 499 Col. Eileen Collins Blvd.  
 Syracuse, New York 13211  
 Phone: (315) 455-2100  
 Fax: (315) 455-9000

**Boring ID:** LB-5  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 17, 2005  
**Start:** 1515  
**Finish:** 1630  
**C&S Rep.:** Robert MacMurray

DEPTH (FU)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	16	14	0.0	14" of Dark Brown -to- Red, Dry, F-M-C Sand, with Little Brick and Cinders and Trace F Gravel 2" of Light Brown -to- Tan, Moist, F-M-C Sand	2" Asphalt & 3" Stone above Spoon No Odor
2						
3	2	10	10	0.0	8" of Dark Brown -to- Red, Moist, Peat 2" of Light Brown -to- Tan, Moist, Marl	No Recovery with 2" Spoon, Followed with 3"
4						
5	3	6	2	0.0	Dark Brown -to- Red, Moist, Peat, with Some Marl and Little F Gravel	Slight Sulfur Odor
6						
7	4	19	1	0.0	4" of Medium Brown, Wet, Marl and Peat 2" of Light Brown -to- Grey, Silt and F Sands, with Little F Gravel 13" of Light Brown -to- Tan, Wet, Marl, Concretions, and Some Peat	
8						
9	5	12	10	0.0	Light Brown -to- Tan, Wet, Marl and Concretions, with Little F Gravel and Trace Peat and Silt	
10						
11	6	9	1	0.0	Light Brown -to- Tan, Wet, Marl with Concretions, with Some Peat	
12						
13	7	7	WH	0.0	4" of Light Brown -to- Tan, Wet, Marl with Concretions, with Some Peat 3" of Grey, Wet, Clay, with F Sand	
14						
15	8	17	23	0.0	6" of Grey, Wet, Silt and F Sand 11" of Grey, Wet, F-M-C Gravel and F-M-C Sand, with Some Silt	
16						
17	9	19	17	0.0	8" of Grey, Wet, F Sand and F Gravel 2" of Grey, Wet, F-M-C Gravel, with Some Silt 9" of Light -to- Medium Brown, F-M-C Sand with F-M Gravel	Ran 3" Spoon to clean Borehole
18						
19	10	26	20	0.0	5" of Light -to- Medium -to- Dark Brown, Moist, F-M-C Sand with F-M Gravel 10" of Grey, wet, Silt with F Sand and F-M-C Gravel 11" of Light Brown -to- Tan, Wet, Silt, with Some F-M-C Sand and Trace F Gravel and Clay	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 The groundsurface at the location of the boring consisted of an asphaltic parking area in front of a loading dock





**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

**C&S Engineers,**  
 499 Col. Eileen Collins E  
 Syracuse, New York 13  
 Phone: (315) 455-2  
 Fax: (315) 455-9

**Boring ID:** LB-6  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 11, 2004  
**Start:** 1330  
**Finish:** 1500  
**C&S Rep.:** Robert MacMurray

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	16	18	2.4	Dark Brown, Moist, F-M-C Sand and F Gravel, with Trace Asphalt and Silt	
2						
3	2	16	25	1.8	8" of Grey, Moist, F-M-C Sand and F Gravel, with Trace Silt 8" of Black -to- Brown, F-M Sand and Slag	
4						
5	3	18	6	20.0	Black, Moist, F Sand with M Gravel	
6						
7	4	14	5	0.0	Black, Moist, F Sand with F Gravel	
8						
9	5	15	1	1.4	6" of Black, Moist, F Sand 9" of Dark Brown -to- Red, Peat	
10						
11	6	16	WH	2.6	Light Brown -to- Tan, Marl	
12						
13	7	3	WH	0.6	2" of Dark Brown -to- Red, Peat and Marl 1" of Black, Wet, F Sand with Silt	
14						
15	8	14	WH	2.4	8" of Marl and Peat 6" of Peat	
16						
17	9	17	WH	2.6	5" of Peat and Marl 6" of Peat 6" of Peat and Marl	
18						
19	10	11	1	1.4	5" of Marl and Peat 3" of Peat 3" of Silt and Clay	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0

**SUBSURFACE EXPLORATION – TEST BORING LOG**

Project: Lowe's Home Center on Midler Avenue, Syracuse, NY Report No.: 25667B-01-1204  
 Client: Pioneer Midler Avenue, LLC Date Started: 11/09/04 Finished: 11/09/04  
 Location of Boring: See Boring Location Sketch Elevation of Surface of Boring: 422.1'

**METHODS OF INVESTIGATION**

Casing: 4-1/4" ID H. Stem Auger Driller: Alan Linstruth  
 Casing Hammer: Driller: Jeremy Walshvelo  
 Other: Inspector:  
 Soil Sampler: 2" OD Split Barrel Rod Size: AWJ  
 Sampler Hammer: Wt. 140 lbs. Fall: 30 in.  
 Make & Model of Drill Rig: Deidrich D120 Truck Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/09/04	While drilling	3.8'	4.0'
11/09/04	Before casing removed	29.8'	38.0'
11/09/04	After casing removed	4.5'	out
11/09/04	After casing removed	Caved @ 6.0'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX	1	0.0	2.0	SS/16	7-12-13-20		Black and Brown cmf SAND, trace fine GRAVEL, trace CINDERS, trace SILT (moist)	25
	H	2	2.0	4.0	SS/16	3-4-5-6		Black mf Foundry SAND (wet) ~ Unprepared Miscellaneous Fill ~	9
	O	3	4.0	6.0	SS/18	2-9-11-4		Black mf SLAG and CINDERS (wet)	20
5	L	4	6.0	8.0	SS/20	4-1-2-3	6.0	Black PEAT and Beige MARL (moist)	3
	O	5	8.0	10.0	SS/22	2-1-1-2		Beige MARL, trace Black PEAT (saturated)	2
10	W	6	10.0	12.0	SS/2	WH-2-1-2		Similar Soil (saturated)	3
	S	7	12.0	14.0	SS/8	WH-8-13-5		Light Brown MARL (saturated)	21
	T	8	14.0	16.0	SS/18	2-1-1-2		Black PEAT, some Beige MARL, trace WOOD (saturated)	2
15	M	9	16.0	18.0	SS/16	2-2-2-1	16.0	Grey CLAY, some SILT (saturated, soft)	4
	A	10	18.0	20.0	SS/14	WH-2-2-2		Grey SILT and fine SAND, some CLAY (saturated, soft)	4
20	U	11	23.0	25.0	SS/14	3-6-6-7	22.0	Grey Brown cmf SAND, some SILT, trace fine GRAVEL (saturated, medium compact)	12
25	G								
	E								
	R								

Continued on Page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H O L L O W  S T E M  A U G E R  XXX	12	28.0	30.0	SS/18	3-3-3-4	27.0	Continued from page 1		6
30								Pinkish Brown SILT (saturated, medium compact)		
		~ Glacial Till ~								
35		13	33.0	35.0	SS/16	4-6-9-9	Pinkish Brown SILT and cmf SAND, little fine GRAVEL, trace CLAY (wet, very stiff)		15	
		~ SM ~								
	14	38.0	38.9	SS/10	14-100@5"	Pinkish Brown SILT, some mf GRAVEL, little cmf SAND, little CLAY (moist, hard)		100+		
40	Bottom of Boring @ 38.9'									
45										
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core

Remarks:



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

**C&S Engineers,**  
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 Phone: (315) 455-1111  
 Fax: (315) 455-1111

**Boring ID:** LB-8  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 10 and 11  
**Start:** 1340 0940  
**Finish:** 1445 1050  
**C&S Rep.:** Tom Wirickx

DEPTH (FT)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	15	25	0.1	8" of Grey, Moist, F-M-C Sand and F-M Gravel, with Some Asphalt 7" of Concrete and Brick	
2						
3	2	14	4	710.0	9" of Dark Brown, Moist, F-M-C Sand and F Gravel, with Slag 3" of Marl	Kerosene-ish Odor
4					2" of Black, Wet, F-M-C Sand	
5	3	17	3	41.2	7" of Black, Wet, F-M-C Sand, with Slag 10" of Moist, Marl	Kerosene-ish Odor with Slight Sheen
6						
7	4	20	1	0.9	Moist, Marl, with Little Peat	
8						
9	5	8	1	4.8	4" of Marl, with Little Peat 4" of Peat	
10						
11	6	18	8	0.4	2" of Peat 8" of Marl	
12					8" of Light Brown, Wet, Marl and F-M Concretions	
13	7	20	2	0.4	14" of Light Brown, Wet, Marl and F-M-C Concretions 6" of Peat	
14						
15	8	22	1	1.2	18" of Moist, Peat and Marl 4" of Grey, Moist, Silt and Clay	
16						
17	9	18	4	0.2	8" of Peat 10" of Grey, Moist, Silt and Clay, with Little F-M-C Sand and F-M Gravel	
18						
19	10	16	26	0.4	Grey, Wet, F-M-C Sand and F-M Gravel, Some Silt	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:**

2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer

Background PID = 0.0 - 0.1

First attempt ceased at approx. 1 foot due to subsurface brick; therefore, a new site was selected approx. 2 feet away  
 Second attempt ceased at approx. 1 foot due to subsurface wire; therefore, a new site was selected approx. 2 feet away

Third attempt was successful, but potentially contaminated material was discovered at a depth of approx. 3-6 feet  
 Potentially contaminated material was bagged and sent to the lab for analysis, surplus cuttings were drummed

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Lowe's Home Center on Midler Avenue, Syracuse, NY **Report No.:** 25667B-01-1204  
**Client:** Pioneer Midler Avenue, LLC **Date Started:** 11/24/04 **Finished:** 11/24/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 421.9'

**METHODS OF INVESTIGATION**

**Casing:** 2-1/4" ID H. Stem Auger **Driller:** Dan Gates  
**Casing Hammer:** **Driller:** Beau Fletcher  
**Other:** **Inspector:** Doug Hurlbut  
**Soil Sampler:** 2" OD Split Barrel **Rod Size:** AWJ  
**Sampler Hammer:** Wt. 140 lbs. **Fall:** 30 in.  
**Make & Model of Drill Rig:** CME 45c Trailer Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/24/04	While drilling	7.6'	8.0'
11/24/04	Before casing removed	7.0'	43.5'
11/24/04	After casing removed	3.7'	out
11/24/04	After casing removed	Caved @ 12.3'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine	and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To						
0	XXX						0.4	Concrete		
	H	1	0.5	2.0	SS/4	7-3-2		Dark Brown Foundry SAND and SLAG (moist) ~ Unprepared Miscellaneous Fill ~ Similar Material (moist)	5	
	O	2a	2.0	2.3	SS/18	1-1-1-1	2.3		2	
		2b	2.3	2.6				Dark Brown PEAT (wet) Beige MARL, trace Dark Brown PEAT Beige MARL (wet) Dark Brown PEAT (wet)	1	
5	L	3a	4.0	5.0	SS/12	1-WH-1-1				
		3b	5.0	6.0						
	L	4	6.0	8.0	SS/4	1-WH-1-1		Dark Brown PEAT and Beige MARL (saturated)	1	
	O	5	8.0	10.0	SS/10	1-WH-1-WH		Dark Brown Similar Soil (saturated)	1	
10	W	6	10.0	12.0	SS/8	WH-WH-WH-1		Beige MARL, trace Dark Brown PEAT (saturated)	WH	
	S	7	12.0	14.0	SS/20	1-1-1-1		Beige MARL (saturated)	2	
	T	8a	14.0	15.5	SS/8	1-1-1-2	15.5	Beige MARL, little Dark Brown PEAT (saturated)	2	
15	E	8b	15.5	16.0				Grey CLAY (saturated, soft)		
	M	9	16.0	18.0	SS/12	12-12-24-34	16.0	Grey cmf SAND and cmf GRAVEL, some SILT (saturated, compact)	36	
	A	10	18.0	20.0	SS/12	10-12-17-20		Grey cmf SAND, some mf GRAVEL, some SILT (saturated, medium compact)	29	
20	U	11	23.5	25.0	SS/6	38-45-54		Grey cmf SAND, some SILT, some fine GRAVEL (saturated, very compact)	99	
25	G									
	E									
	R									

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth (feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H O L L O W S T E M A U G E R XXX	12	28.5	30.0	SS/6	7-7-9	35.0	Continued from page 1		16
30								Grey cmf SAND, some fine GRAVEL, trace SILT (saturated, medium compact)		
35		13	33.5	35.0	SS/4	4-8-8		Grey cmf SAND, some SILT (saturated, medium compact)		16
40								Pinkish Brown SILT, some cmf SAND, little fine GRAVEL, little CLAY (wet to saturated, medium compact)		
45		15	43.5	45.3	SS/18	15-27-67-100@4"		~ Glacial Till ~  Similar Soil (wet, medium compact)  ~ CL-ML~		94
50	Bottom of Boring @ 45.3'									

\*SS - Split Spoon, U - Undisturbed Tube, C - Core

Remarks:



**ENGINEERS**  
DESIGN BUILD  
TECHNICAL SERVICES  
OPERATIONS

**C&S Engineers,**  
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**Boring ID:** LB-10  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 17, 2004  
**Start:** 1215  
**Finish:** 1305  
**C&S Rep.:** Robert MacMurray

DEPTH (FO)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	20	10	0.0	Dark Brown -to- Red, Dry, F-M-C Sand, with Little Coal and Trace Silt and F Gravel	2" Asphalt & 2" Stone above Spoon
2						
3	2	14	2	0.0	Light Brown -to- Tan, Moist, Marl, with Some Peat	No Odor
4						
5	3	23	WH	0.0	Light Brown -to- Yellow, Wet, F Sand and Marl	No Odor
6						
7	4	20	WH	0.0	Light Brown -to- Yellow, Wet, Marl, with Trace F Sand and Concretions, and Little Peat	Slight Sulfur Odor
8						
9	5	3	WH	0.0	Medium Brown, Marl and Peat, with Trace F Sand and Silt	
10						
11	6	19	7	0.0	Medium Brown, Marl and Peat, with Trace F Sand	Slight Sulfur Odor
12						
13	7	11	WH	0.0	Light Brown -to- Tan, Wet, Marl, with Trace Silt and Peat	Slight Sulfur Odor
14						
15	8	2	WH	0.0	Light Brown -to- Tan, Wet, Marl, with Peat	
16						
17	9	17	3	0.0	12" of Light Brown -to- Tan, Wet, Marl with Concretions 2" of Peat	
18					3" of Light Grey, Wet, Clay, with Some F-M-C Sand and Little Silt	
19	10	13	15	0.0	Light Grey, Wet, F-M-C Sand, with Some Silt and Trace F Gravel	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
" WH " denotes an N-Value equivalent to Weight of Hammer  
Background PID = 0.0 - 1.0  
The groundsurface at the location of the boring consisted of an asphaltic parking area



**ENGINEERS**  
 DESIGN BUILD  
 OPERATIONS

**C&S Engineers.**  
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**Boring ID:** LB-11  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 9, 2004  
**Start:** 1520  
**Finish:** 1645  
**C&S Rep.:** Tom Wirickx

DEPTH (FU)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	18	16	0.2	10" of Grey, Moist, F-M-C Sand and F-M-C Gravel 3" of Black, Moist, F-M-C Sand with Trace Slag 5" of Light Brown, Moist, F-M-C Sand, with Trace Slag	
2						
3	2	14	9	0.4	Black -to- Brown, Wet, F-M-C Sand, with Trace Slag	
4						
5	3	14	20	0.3	Black, Wet, F-M Sand, with Trace Slag	Few Pieces/Chunks of Metal
6						
7	4	12	11	0.4	Black, Wet, F-M Sand and Slag, with Trace Wood and Peat	
8						
9	5	12	2	0.6	Brown, Moist, Peat	No Recovery with 2" Spoon, Followed with 3"
10						
11	6	12	WH	0.8	Brown, Moist, Peat	
12						
13	7	8	1	2.0	Brown, Moist, Peat	
14						
15	8	10	WH	1.7	2" Peat 8" Brown, Wet -to- Moist, Marl, with Some Peat and Shells	
16						
17	9	18	WH	1.7	3" Marl and Peat 3" Peat 12" Grey, Moist, Clay, with Little Silt	
18						
19	10	24	WH	1.6	Grey, Wet, Silt, with Some Clay	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 0.1



**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Lowe's Home Center on Midler Avenue, Syracuse, NY **Report No.:** 25667B-01-1204  
**Client:** Pioneer Midler Avenue, LLC **Date Started:** 11/11/04 **Finished:** 11/15/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 421.4'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger **Driller:** Al Linstruth  
**Casing Hammer:** **Driller:** Jeremie Walshvelo  
**Other:** **Inspector:**  
**Soil Sampler:** 2" OD Split Barrel **Rod Size:** AWJ  
**Sampler Hammer:** Wt. 140 lbs. **Fall:** 30 in.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/11/04	While drilling	None Noted	18.5'
11/15/04	Before casing removed	7.2'	48.5'
11/15/04	After casing removed	5.0'	out
11/15/04	After casing removed	caved @ 25.9'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine	and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To						
0    5	XXX	1	0.0	2.0	SS/18	4-9-7-5			Black Foundry SAND, little SLAG, trace SILT	16
	H	2	2.0	4.0	SS/19	7-4-3-2			~ Unprepared Miscellaneous Fill ~ Similar Material (moist)	7
	O	3	4.0	6.0	SS/12	4-17-12-14			Similar Material, little cmf GRAVEL (wet)	29
	L		6.0	7.5	SS/20	5-6-4-3	7.5		Black Foundry SAND, trace SILT (moist)	10
	O	4a	7.5	8.0					Black PEAT (wet)	
10	W	5	8.0	10.0	SS/14	1-WH-1-1			Dark Brown PEAT, little Beige MARL (saturated)	1
	S	6	10.0	12.0	SS/12	WH-WH-1-1			Black PEAT (saturated)	1
	T	7	12.0	14.0	SS/16	WH-WH-1-1			Beige MARL, little Black PEAT (saturated)	1
15	E	8	14.0	16.0	SS/16	WH-1-WH-1			Similar Soil (saturated)	1
	M	9	16.0	18.0	SS/16	1-1-1-1			Similar Soil, little WOOD (saturated)	2
20	A	10a	18.0	19.5	SS/22	WH-WH-2-2	19.5		Similar Soil (saturated)	2
	10b		19.5	20.0					Grey CLAY, little SILT (saturated, soft)	
		E							~ CL ~	
25	R	11	23.5	25.0	SS/12	WH-1-4			Grey SILT, little CLAY, trace fine SAND (saturated, medium stiff)	5

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
	O									
	L	12	28.5	30.0	SS/12	4-4-4		Grey SILT and CLAY, little fine SAND (saturated, medium stiff)	8	
30	L									
	O									
	W	13	33.5	35.0	SS/12	2-2-2		Grey SILT and fine SAND, little CLAY (saturated, soft)	4	
35	S									
	T									
	E	14a	38.5	39.8	SS/14	3-4-1-2		Grey SILT, some cmf SAND, trace CLAY (saturated, medium stiff)	5	
	M	14b	39.8	40.0			39.8	Brown cmf SAND, little mf GRAVEL, trace SILT (saturated, medium compact)		
40										
	A	15	43.5	45.0	SS/12	6-7-6		Similar Soil (saturated, medium compact)	13	
45	U									
	G									
	E						46.9	<i>Harder auger advancement @ 46.9'</i>		
	R	16	48.5	50.0	SS/12	17-64-68		Pinkish-Brown SILT, some cmf SAND, little mf GRAVEL (moist, hard) ~ Glacial Till ~	132	
50	XXX							Bottom of Boring @ 50.0'		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
Remarks:



**ENGINEERS**  
 DESIGN/BUILD  
 PROJECT MANAGEMENT  
 OPERATIONS

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 Syracuse, New York 132  
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 Fax: (315) 455-96

**Boring ID:** LB-13 **Page:** 1 of 1  
**Project:** Midler Ave. Brownsfield **Date:** November 11, 2004  
**Client:** Pioneer Midler Ave., LLC **Start:** 1715  
**Contractor:** CME Associates, Inc. **Finish:** 1840  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig **C&S Rep.:** Tom Wirickx

DEPTH (Ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (Ft)
0							
1	1	18	14	0.0	8" of Brown -to- Grey, F-M-C Sand and F-M Gravel, with Trace Silt 10" of Black, Moist, F-M-C Sand, with Trace F Gravel and Slag		
2							
3	2	14	4	0.1	Brown -to- Black, Moist -to- Wet, F-M-C Sand, with Trace F Gravel and Slag		
4							
5	3	4	1	0.2	Dark Brown, Wet, F-M-C Sand and F-M Gravel	Groundwater at Approx. 4'	
6							
7	4	12	WH	0.4	Moist, Marl		
8							
9	5	24	3	4.0	Brown, Wet, Marl with Concretions		
10							
11	6	18	6	1.4	Brown, Wet, Marl with Concretions		
12							
13	7	14	4	0.5	Brown, Wet, Marl with Concretions		
14							
15	8	12	2	2.1	6" Brown, Wet, Marl with Concretions 6" of Moist, Peat		
16							
17	9	1	1	0.4	Wet, Marl with Concretions	Minimal Recovery	
18							
19	10	8	1	0.4	Grey, Moist, Clay, with Little Silt	No Recovery with 2" Spoon, Followed with 3"	
20							

**SAMPLING METHOD:** ASTM D-1586  
**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 0.2

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Lowe's Home Center on Midler Avenue, Syracuse, NY **Report No.:** 25667B-01-1204  
**Client:** Pioneer Midler Avenue, LLC **Date Started:** 12/01/04 **Finished:** 12/01/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 421.9'

**METHODS OF INVESTIGATION**

**GROUND WATER OBSERVATIONS**

<b>Casing:</b> 3-1/4" ID H. Stem Auger	<b>Driller:</b> Dan Gates	Date	Time	Depth	Casing At
<b>Casing Hammer:</b>	<b>Driller:</b> Beau Fletcher	12/01/04	While drilling	3.1'	7.0'
<b>Other:</b> 6" Core Barrel	<b>Inspector:</b> Doug Hurlbut	12/01/04	Before casing removed	7.2'	47.0'
<b>Soil Sampler:</b> 2" OD Split Barrel	<b>Rod Size:</b> AWJ	12/01/04	After casing removed	3.0'	out
<b>Sampler Hammer:</b> Wt. 140 lbs.	<b>Fall:</b> 30 in.	12/01/04	After casing removed	caved @ 17.4'	out
<b>Make &amp; Model of Drill Rig:</b> CME 45c Trailer Mounted					

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine	and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To						
0	XXX	1	1.0	3.0	SS/14	17-15-8-9	0.8	Concrete Slab		
	H							Multicolored SLAG and CINDERS, trace MARL (moist)	23	
	O	2	3.0	5.0	SS/14	9-7-1-1		~ Unprepared Miscellaneous Fill ~ Multicolored SLAG, CINDERS, Foundry SAND (moist)	8	
	L						5.0			
5	L	3a	5.0	5.7	SS/16	1-WH-1-WH		Dark Brown PEAT (moist)	1	
	L	3b	5.7	7.0				Beige MARL (saturated)		
	O	4	7.0	9.0	SS/6	WH-WH-WH-WH		Beige MARL, trace Dark Brown PEAT (saturated)	WH	
	W	5	9.0	11.0	SS/24	1-WH-1-1		Beige MARL (saturated)	1	
10										
	S	6	11.0	13.0	SS/22	1-1-1-1		Beige MARL (saturated)	2	
	T	7	13.0	15.0	SS/24	1-WH-1-1		Similar Soil, trace Black PEAT (saturated)	1	
15	E	8	15.0	17.0	SS/10	WH-WH-1-1		Beige MARL, little Black PEAT (saturated)	1	
	M									
		9a	17.0	18.8	SS/24	1-1-1-1	18.8	Similar Soil (saturated)		
		9b	18.8	19.0				Grey CLAY, trace SILT (saturated, soft)	2	
20	A	10	19.0	21.0	SS/20	WH-WH-1-2		Grey CLAY, some SILT, trace cmf SAND in layers (saturated, very soft)	1	
	U						22.0	Augered through possible Gravel @ 22.0'		
	G									
	E	11	23.5	25.0	SS/12	11-13-17		Grey cmf SAND, some fine GRAVEL, some SILT (saturated, compact)	30	
25	R									

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth (feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	e - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
30	O									
	L	12	28.5	30.0	SS/4	18-18-18		Grey cmf SAND, some fine GRAVEL, some SILT (saturated, compact)	36	
35	L									
	O									
40	W	13	33.5	35.0	SS/4	16-9-9		Grey cmf SAND, some cmf GRAVEL, trace SILT (saturated, medium compact)	18	
	S									
45	T									
	E	14	38.5	40.0	SS/13	9-8-6		Grey cmf SAND, some fine GRAVEL with layers of fine SAND, trace SILT (saturated, medium compact)	14	
50	M									
	A	15	43.5	45.0	SS/15	8-10-13-31	43.5	Pinkish-Brown SILT and CLAY, little cmf SAND, little mf GRAVEL (moist, very stiff)	23	
50	U							~ Glacial Till ~		
	G									
50	E									
	R	16	47.0	47.8	SS/7	62-100@4"		Similar Soil (moist, very stiff) ~ CL-ML ~	100+	
	XXX							Bottom of Boring @ 47.8'		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core

Remarks:



**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL SERVICES  
 OPERATIONS

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**Boring ID:** LB-15  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 17, 2004  
**Start:** 0715  
**Finish:** 0830  
**C&S Rep.:** Robert MacMurray

DEPTH (Ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	14	15	0.0	6" of Dark Brown -to- Red, Moist, F-M Sand with Peat 8" of Dark Brown -to- Black, Moist, F-M-C Sand with Slag	2" Asphalt above Spoon
2						
3	2	9	5	0.0	7" of F-M-C Sand, Peat, and M-C Gravel 2" of Light Brown -to- Cream, Moist, Marl with Concretions	
4						
5	3	18	4	0.0	Light Brown -to- Cream, Wet, Marl with Concretions, with Some Shell	
6						
7	4	14	1	0.0	Light Brown -to- Light Green, Wet, Marl	
8						
9	5	16	WH	0.0	11" of Light Brown -to- Green, Wet, Marl, with Trace Concretions 5" of Dark Brown -to- Red, Moist, Peat	
10						
11	6	17	WH	0.0	7" of Light Brown, Wet, Marl and Peat 6" of Dark Brown -to- Red, Moist, Peat 4" of Light Brown, Moist, Marl and Peat	
12						
13	7	19	1	0.0	5" of Light Brown, Wet, Marl and Peat 6" of Dark Brown -to- Red, Moist, Peat 8" of Medium Brown -to- Red, Moist, Peat and Marl	
14						
15	8	18	WH	0.0	Light -to- Medium Brown -to- Red, Moist, Peat and Marl	
16						
17	9	16	2	2.2	Light -to- Medium Brown -to- Red, Moist, Peat and Marl	
18						
19	10	12	WH	3.8	Light -to- Medium Brown -to- Red, Moist, Peat and Marl	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:**  
 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 The groundsurface at the location of the boring consisted of an asphaltic parking area

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York **Report No.:** 25668B-01-1204  
**Client:** Pioneer Companies **Date Started:** 11/18/04 **Finished:** 11/18/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 423.8'

**METHODS OF INVESTIGATION**

**GROUND WATER OBSERVATIONS**

<b>Casing:</b> 4-1/4" ID H. Stem Auger	<b>Driller:</b> Al Linstruth	Date	Time	Depth	Casing At
<b>Casing Hammer:</b>	<b>Driller:</b> Jeremie Walshvelo	11/18/04	While drilling	6.0'	8.0'
<b>Other:</b>	<b>Inspector:</b>	11/18/04	Before casing removed	10.0'	28.5'
<b>Soil Sampler:</b> 2" OD Split Barrel	<b>Rod Size:</b> AWJ	11/18/04	After casing removed	4.8'	out
<b>Sampler Hammer:</b> Wt. 140 lbs.	<b>Fall:</b> 30 in.	11/18/04	After casing removed	caved @ 18.6'	out
<b>Make &amp; Model of Drill Rig:</b> Deidrich D120 Truck Mounted					

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine	and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To						
0	XXX H	1	0.0	2.0	SS/18	12-4-3-6		Brown cmf SAND and SLAG (moist)	7	
	O	2	2.0	4.0	SS/1	6-3-2-1		Orange BRICK, some Brown cmf SAND (moist)	5	
	L	3	4.0	6.0	SS/0	1-1-WH-WH		No Recovery	1	
5	L						6.0	~ Unprepared Miscellaneous Fill ~		
	O	4	6.0	8.0	SS/6	WH-WH-1-1		Black PEAT, little Brown MARL (saturated)	1	
	W	5	8.0	10.0	SS/12	1-3-1-4		Beige MARL, trace Black PEAT (saturated)	4	
10		6	10.0	12.0	SS/18	2-4-3-2		Beige MARL (saturated)	7	
	S	7a	12.0	13.7	SS/8	1-WH-1-1	13.7	Beige MARL, trace WOOD (saturated)	1	
	T	7b	13.7	14.0				Grey CLAY (saturated, very soft)		
15	E	8	14.0	16.0	SS/12	1-1-3-6		Grey CLAY, little SILT, little cmf SAND (saturated, soft)	4	
	M	9	16.0	18.0	SS/14	2-5-6-10	16.0	Pinkish-Brown SILT, some cmf SAND, little CLAY (moist, stiff)	11	
20	A	10	18.0	20.0	SS/8	5-11-14-17		Pinkish-Brown SILT, some cmf SAND, little CLAY, trace fine GRAVEL (moist, very stiff)	25	
	U							~ Glacial Till ~		
	G	11	23.5	25.0	SS/6	14-21-30		Pinkish-Brown SILT, some cmf SAND, some GRAVEL, trace CLAY (wet, hard)	51	
25	R							Continued on page 2		

\*SS – Split Spoon, U – Undisturbed Tube, C – Core

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
	S	12	28.5	30.0	SS/0	5-10-10		No Recovery		20
30	A XXX	13a	30.0	31.5	SS/18	17-11-18-17		Pinkish-Brown SILT, some cmf SAND, little CLAY, trace fine GRAVEL (moist, very stiff)		29
		13b	31.5	32.0			31.5	Green SILTSTONE (moist)		
							Bottom of Boring @ 32.0'			
35										
40										
45										
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
 Remarks:





**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL SERVICES  
 OPERATIONS

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**Boring ID:** PB-2  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 23, 2004  
**Start:** 1000  
**Finish:** 1050  
**C&S Rep.:** Robert MacMurray

DEPTH (Ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	18	6	0.0	12" of Medium Brown, Moist, Silt and F-M-C Sand, with Some F-M Gravel 6" of Light Grey, F-M-C Sand and F-M-C Gravel	
2						
3	2	18	6	0.0	6" of Medium Brown, Moist, Silt and F-M-C Sand, with Some F-M-C Gravel 12" of Dark Brown -to- Black, Moist, F-M-C Sand, with Some Slag and Ash	
4						
5	3	14	3	0.0	Dark Brown -to- Black, Wet, F-M-C Sand, with Some Ash and F Gravel	
6						
7	4	20	1	4.8	5" of Dark Brown -to- Black, Wet, F-M-C Sand, with Some Ash 15" of Dark Brown -to-Red, Peat, with Some Marl and Little Wood	Sulfuric Odor
8						
9	5	15	2	11.7	10" of Dark Brown, Wet, Marl and Peat 5" of Light Brown -to- Yellow, Moist, Wood	Sulfuric Odor
10						
11	6	8	6	0.4	4" of Dark Brown, Wet, Peat, with Some Marl 4" of Black, Wet, F-M-C Sand, with Some Silt	Unidentifiable Organic Odor
12						
13	7	5	10	0.0	Light -to- Medium Brown, Moist, Silt, with Some F-M-C Sand and Trace F Gravel	
14						
15	8	0	13	na	No Recovery	No Recovery
16						
17	9	12	17	0.0	Light Brown, Moist, Silt, with Some F Sand and F-M-C Gravel	
18						
19	10	17	22	0.3	Light -to- Medium Brown -to- Red, Clay, with Some F Sand, Silt, and F-M-C Gravel	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0



**ENGINEERS**  
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 Fax: (315) 455-9

**Boring ID:** PB-3  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 22, 2004  
**Start:** 1425  
**Finish:** 1520  
**C&S Rep.:** Robert MacMurray

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING <sup>(1)</sup> (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0				1.1		
1	1	18	20	4.4	12" of Light Grey, Dry, F-M-C Sand and F-M-C Gravel, with Little Silt	
				4.4	6" of Light Tan -to- Red, Dry, Ash, Slag, and Refractory Brick	
2				3.3		
				0.8		
3	2	12	23	4.6	Medium -to- Dark Brown, Silt and F-M-C Sand, with Some F-M-C Gravel and Little Ash	Mothball-Like Odor
				5.8		
4				3.7		
				0.8		
5	3	12	2	3.3	9" of Medium -to- Dark Brown, Silt and F-M-C Sand, with Some F-M-C Gravel and Little Slag	
				6.4	3" of Light Brown -to- Red, Wet, Peat and Wood	
6				3.5		
				14.9		
7	4	18	2	5.1	13" of Medium Brown -to- Green, Wet, Marl and Peat	Sulfuric Odor
				4.1	5" of Dark Brown -to- Red, Wet, Peat and Wood	
8				8.0		
				7.0		
9	5	10	2	3.7	Dark Brown -to- Red, Moist, Peat and Marl, with Little Wood	
				5.1		
10				5.3		
				3.0		
11	6	10	2	1.1	Medium -to- Dark Brown, Wet, Marl and Shells, with Some Concretions	
				0.1		
12				1.4		
				5.3		
13	7	17	1	3.9	10" of Medium -to- Dark Brown, Wet, Peat and Wood, with Some Marl	
				6.4	7" of Light Grey, Wet, Clay, with Some Silt	
14				5.2		
				0.8		
15	8	19	7	2.8	6" of Light Gray, Wet, Silt, with Some Clay	
				4.8	12" of Light Gray, Moist, Silt and F-M Sand	
16				2.8	1" of Light Grey -to- Brown -to- Red, Silt, with Some F-M Sand and F-M Gravel	
				1.1		
17	9	12	16	2.0	Light Red, Moist, Silt, with Some F Sand and F-M Gravel	
				1.1		
18				1.4		
				0.5		
19	10	21	20	3.0	Light Red, Moist, Silt, with Some F Sand and F-M-C Gravel	
				2.1		
20				1.9		

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:**

2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer

Background PID = 0.0 - 1.0

(1) Three separate PID readings were taken for each interval, the first of which was an open air reading while in the spoon; furthermore, the second and third were headdress readings taken after the spoon was bagged. Then all PID readings were averaged together to generate the PID reading that is shown within the shaded area  
 Material collected from the 2 - 4' interval was bottled and sent to the laboratory for analysis, due to odor

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York **Report No.:** 25668B-01-1204  
**Client:** Pioneer Companies **Date Started:** 11/18/04 **Finished:** 11/18/04  
**Location of Boring:** See Remarks Below **Elevation of Surface of Boring:** 423.3'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger **Driller:** Al Linstruth  
**Casing Hammer:** **Driller:** Jeremie Walshvelo  
**Other:** **Inspector:** Doug Hurlbut  
**Soil Sampler:** 2" OD Split Barrel **Rod Size:** AWJ  
**Sampler Hammer:** Wt. 140 lbs. **Fall:** 30 in.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/18/04	While drilling	7.3'	8.0'
11/18/04	Before casing removed	22.1'	38.5'
11/18/04	After casing removed	5.0'	out
11/18/04	After casing removed	caved @ 16.5'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD	
			From	To						
0	XXX H	1a	0.0	0.4	SS/17	1-3-4-6	0.4	Topsoil (moist)	7	
		1b	0.4	0.8			0.8	Brown SILT, some fine SAND (moist)		
		1c	0.8	2.0				Multicolored SLAG, Foundry SAND, SILT, cmf SAND, trace BRICK, trace CINDERS		
5	O L	2	2.0	4.0	SS/15	1-2-1-2		Multicolored Foundry SAND/SLAG ~ Unprepared Miscellaneous Fill ~	3	
		3a	4.0	4.5			4.5	Similar Material (wet)		
		3b	4.5	6.0				Beige MARL and Black PEAT (saturated)		
10	W	4	6.0	8.0	SS/20	WH-WH-WH-WH		Beige MARL (saturated)	WH	
		5	8.0	10.0			SS/3	WH-WH-1-WH		Beige MARL and Black PEAT (saturated)
		6	10.0	12.0			SS/7	WH-WH-WH-WH		Beige MARL mixed with Brown PEAT, trace ROOTS, trace SHELLS (saturated)
15	S T E	7	12.0	14.0	SS/8	WH-WH-WH-WH		Beige MARL, trace Brown PEAT (saturated)	WH	
		8	14.0	16.0			SS/24	WH-WH-WH-WH		Beige MARL, some Brown PEAT layers (saturated)
		9	16.0	18.0			SS/1	WH-WH-WH-WH		Beige MARL (saturated)
20	M	10a	18.0	18.3	SS/21	WH-WH-WH-3	18.3	Beige MARL and Brown PEAT (saturated)	WH	
		10b	18.3	20.0				Grey CLAY, some SILT (saturated, very soft)		
		11	23.5	25.0			SS/6	9-15-12-13		Light Brown cmf SAND, some mf GRAVEL, some SILT (saturated, medium compact)
25	R							Continued on page 2		

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks: Moved boring 3.0 feet North due to utility conflicts.

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H O L L O W	12	28.5	30.0	SS/17	10-14-7			Continued from page 1	21
30										
	S T E M	13	33.5	35.0	SS/18	22-50-41	32.8		Harder advancement with augers @ 32.8'	91
35										
	A U G E R XXX	14	38.5	38.9	SS/5	100@5"			~ Glacial Till ~	100+
40										
									Similar Soil (moist, hard)	
45										
									Bottom of Boring @ 38.9'	
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
 Remarks:



**ENGINEERS**  
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**Boring ID:** PB-5  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 19, 2004  
**Start:** 0755  
**Finish:** 0840  
**C&S Rep.:** Robert MacMurray

DEPTH (FT)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	16	4	0.0	7" of Medium -to- Dark Brown, Moist, Silt and F Sand 9" of Dark Brown -to- Dark Grey, Moist, F-M-C Sand and F-M-C Gravel	
2						
3	2	10	1	0.0	Dark Brown, Moist, Silt and F Sand	
4						
5	3	17	WH	0.0	Light Brown -to- Tan, Wet, Marl	
6						
7	4	7	WH	0.0	Light Brown -to- Tan, Wet, Marl and Peat	
8						
9	5	11	WH	0.0	Medium Brown, Wet, Marl and Peat	
10						
11	6	1	WH	0.2	Medium Brown, Wet, Marl and Peat	
12						
13	7	13	WH	0.7	8" of Dark Brown, Moist, Peat 5" of Light Brown -to- Tan, Wet, Marl and Concretions	
14						
15	8	7	WH	1.2	2" of Dark Brown, Moist, Peat 5" of Light Grey, Wet, Clay, with Trace Silt	
16						
17	9	1	WH	0.6	Light Grey, Wet, Clay, with Trace Silt	
18						
19	10	18	1	2.5	16" of Light Grey, Wet, Silt, with Little F Sand and Trace Clay 2" of Light Grey, Wet, F Sand, with Little Silt and Trace Clay	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0



**ENGINEERS**  
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Boring ID: PB-6  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: CME Associates, Inc.  
 Equipment: Draiger D-120 Truck Mounted Drill Rig

Page: 1 of 1  
 Date: November 23, 2004  
 Start: 0730  
 Finish: 0820  
 C&S Rep.: Robert MacMurray

DEPTH (FO)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	19	12	0.9	7" of Light Grey, Dry, F-M-C Sand and F-M-C Gravel 12" of Dark Brown -to- Black -to- Red, Moist, F-M-C Sand, Ash, and Slag	1" Asphalt above Spoon
2						
3	2	2	11	1.2	Black, Wet, F-M-C Sand and F-M-C Gravel	
4						
5	3	6	2	1.3	Black -to- Dark Brown, Wet, F-M-C Sand and F-M-C Gravel	
6						
7	4	7	2	0.4	3" of Black -to- Dark Brown, Wet, F-M-C Sand, with Little F-M-C Gravel 4" of Dark Brown -to- Red, Peat, with Some Marl	
8						
9	5	13	1	8.6	8" of Dark Brown -to- Red, Peat, with Some Marl 5" of Light Brown, Wet, Marl	Strong Sulfur Odor
10						
11	6	13	1	4.2	Medium -to- Light Brown -to- Tan, Wet, Marl	Strong Sulfur Odor
12						
13	7	24	WH	14.0	Medium -to- Light Brown -to- Tan, Wet, Marl, with Trace Wood	Strong Sulfur Odor
14						
15	8	11	2	9.0	7" of Dark Brown -to- Red, Wet, Peat, with Some Wood and Trace Marl 4" of Light Grey, Wet, Silt, with Some Clay	Strong Sulfur Odor
16						
17	9	2	WH	0.4	Grey Clay, with Some Silt and F Sand	
18						
19	10	14	5	1.5	4" of Light Grey, Wet, Clay, with Some Silt and F Sand 2" of Light Grey, Wet, F Sand and Silt 2" of Light Grey, Wet, Silt and Clay 2" of Light Grey, Wet, F-M-C Sand	
20						

**SAMPLING METHOD: ASTM D-1586**

**GENERAL NOTES:**

2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 The groundsurface at the location of the boring consisted of an asphaltic parking area

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York  
**Client:** Pioneer Companies  
**Location of Boring:** See Remarks Below

**Report No.:** 25668B-01-1204  
**Date Started:** 11/19/04 **Finished:** 11/19/04  
**Elevation of Surface of Boring:** 421.5'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger **Driller:** Al Linstruth  
**Casing Hammer:** **Driller:** Jeremie Walshvelo  
**Other:** **Inspector:**  
**Soil Sampler:** 2" OD Split Barrel **Rod Size:** AWJ  
**Sampler Hammer:** Wt. 140 lbs. **Fall:** 30 in.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
11/19/04	While drilling	5.8'	8.0'
11/19/04	Before casing removed	22.0'	41.4'
11/19/04	After casing removed	3.2'	out
11/19/04	After casing removed	caved @ 11.0'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX H	1	0.0	2.0	SS/12	22-38-9-4		IRON SLAG, little cmf SAND (moist) ~ Unprepared Miscellaneous Fill ~	47
	O	2	2.0	4.0	SS/14	4-13-3-2		Brown SLAG and CINDERS, some cmf SAND, trace WOOD (moist to wet, medium compact) ~ Petroleum Odor ~	16
	L	3	4.0	6.0	SS/8	4-5-2-3		WOOD, some CINDERS, little Brown cmf SAND, trace PEAT, trace MARL (wet) ~ Petroleum Odor ~	7
5	L								
	O	4a	6.0	6.2	SS/12	7-2-3-4	6.2	WOOD, little Foundry SAND/SLAG (wet)	5
	W	4b	6.2	8.0				Light Brown MARL (wet)	
		5	8.0	10.0	SS/4	2-1-1-WH		Similar Soil (saturated)	2
10		6a	10.0	11.0	SS/16	2-1-1-WH		Similar Soil (saturated)	2
		6b	11.0	12.0				Dark Brown PEAT, trace Beige MARL (saturated)	
	S	7a	12.0	13.0	SS/16	1-1-1-2		Beige MARL, trace Dark Brown PEAT (saturated)	2
	T	7b	13.0	14.0				Dark Brown PEAT, trace Beige MARL (saturated)	
15	E	8	14.0	16.0	SS/6	WH-1-WH-1		Beige MARL (saturated)	1
	M								
		9a	16.0	16.5	SS/14	2-2-2-1	16.5	Dark Brown PEAT and WOOD (saturated)	
		9b	16.5	18.0				Grey CLAY (saturated, soft)	4
		10	18.0	20.0	SS/16	1-1-2-1		Similar Soil (saturated, soft)	3
20	A						22.0		
	U								
	G	11	23.5	25.0	SS/12	4-5-3		Grey cmf SAND, some mf GRAVEL, some SILT, trace CLAY layers (saturated, loose)	8
25	E								
	R								

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod  
**Remarks:** Boring moved 8.0 feet West due to utility conflict.

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth (feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H O L L O W	12	28.5	30.0	SS/14	7-10-7		Continued from page 1		17
30								Grey cmf SAND, some fine GRAVEL, trace SILT with layers of fine SAND and SILT (saturated, medium compact)		
35								S T E M	13	
40	14a	38.5	39.3	SS/15	9-12-27	39.3	Grey cmf SAND, some fine GRAVEL, trace SILT (saturated, compact)		39	
	14b	39.3	40.0				Pinkish-Brown SILT, some CLAY, little cmf SAND, little mf GRAVEL (moist, hard) ~ Glacial Till ~			
45	A U G E R XXX	15	41.4	41.4	SS/0	100@0"	41.4	Auger Refusal @ 41.4'		100+
							No Recovery			
							Bottom of Boring @ 41.4'			
50										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
Remarks:





**ENGINEERS**  
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 TECHNICAL RESOURCES  
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**Boring ID:** PB-8  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 23, 2004  
**Start:** 1220  
**Finish:** 1301  
**C&S Rep.:** Robert MacMurray

DEPTH (Ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	12	6	0.0	5" of Light Grey, Moist, F-M-C Sand and F-M-C Gravel, with Some Silt 7" of Dark Brown -to- Black, Moist, F-M-C Sand, with Some Ash and Marl	1" Asphalt above Spoon
2						
3	2	20	2	0.1	16" of Dark Brown -to- Black, Moist, F-M-C Sand, with Some Marl 4" of Light Brown, Moist, Marl	
4						
5	3	12	2	43.0	6" of Dark -to- Light Brown, Moist, Marl, with Some Peat 6" of Dark Brown -to- Red, Peat, with Some Marl	Slight Sulfur Odor
6						
7	4	12	1	2.6	Light Brown -to- Tan, Wet, Marl, with Some Concretions	Slight Sulfur Odor
8						
9	5	5	1	0.4	Light Brown -to- Tan, Wet, Marl	Slight Sulfur Odor
10						
11	6	14	WH	1.5	Light Brown -to- Tan, Wet, Marl, with Shells, and Some F-M-C Sand	
12						
13	7	12	WH	10.3	9" of Medium Brown -to- Green, Marl, with Some Peat 3" of Dark Brown -to- Red, Moist, Peat	Slight Sulfur Odor
14						
15	8	9	2	9.8	Dark Brown -to- Red, Wet, Peat, with Some Wood	Slight Sulfur Odor
16						
17	9	19	WH	2.8	1" of Dark Brown -to- Red, Wet, Peat 18" of Light Grey, Clay and Silt	
18						
19	10	22	3	0.0	10" of Light Grey, Silt, with Little Clay 12" of Light Grey, Silt, with Little -to- Trace Clay	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 The groundsurface at the location of the boring consisted of an asphaltic parking area



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL SERVICES  
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**Boring ID:** PB-9  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 23, 2004  
**Start:** 1645  
**Finish:** 1730  
**C&S Rep.:** Robert MacMurray

DEPTH (FU)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	16	7	0.3	9" of Dark Brown, F-M-C Sand, with Some F-M-C Gravel and Little Slag and Ash 6" of Black, Moist, F-M-C Sand and Foundry Sand	
2						
3	2	15	6	0.0	Black, Wet, F-M-C Sand and Foundry Sand	
4						
5	3	17	3	0.1	Black, Wet, F-M-C Sand and Foundry Sand, with Some Slag	
6						
7	4	20	3	0.0	15" of Black, Wet, F-M-C Sand and Foundry Sand, with Some F-M-C Gravel 5" of Dark Brown, Moist, Peat	
8						
9	5	9	2	4.7	Dark Brown -to- Red, Wet, Peat	
10						
11	6	20	1	19.4	2" of Dark Brown -to- Red, Wet, Peat 14" of Light -to- Medium Brown, Marl 4" of Dark Brown -to- Red, Wet, Peat	Strong Sulfur Odor
12						
13	7	20	1	78.2	14" of Dark Brown -to- Red, Wet, Peat, with Some Marl 6" of Light Brown -to- Tan, Marl	Strong Sulfur Odor
14						
15	8	16	3	69.0	9" of Light Brown -to- Tan, Wet, Marl, with Some Peat 7" of Light Brown -to- Tan, Wet, Marl, with Some Shells and Concretions	Strong Sulfur Odor
16						
17	9	20	WH	30.8	Light -to- Medium Brown -to- Tan, Marl, with Some Peat	
18						
19	10	9	WH	0.2	7" of Light -to- Medium Brown, F-M-C Sand, with Little F Gravel 2" of Grey, Wet, Clay, with Little Silt	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0

**SUBSURFACE EXPLORATION – TEST BORING LOG**

Project: Retail Development, Midler Avenue, Syracuse, New York Report No.: 25668B-01-1204  
 Client: Pioneer Companies Date Started: 11/22/04 Finished: 11/22/04  
 Location of Boring: See Boring Location Sketch Elevation of Surface of Boring: 419.8'

**METHODS OF INVESTIGATION**

**GROUND WATER OBSERVATIONS**

Casing: 4-1/4" ID H. Stem Auger Driller: Al Linstruth  
 Casing Hammer: Driller: Jeremie Walshvelo  
 Other: Inspector: Doug Hurlbut  
 Soil Sampler: 2" OD Split Barrel Rod Size: AWJ  
 Sampler Hammer: Wt. 140 lbs. Fall: 30 in.  
 Make & Model of Drill Rig: Deidrich D120 Truck Mounted

Date	Time	Depth	Casing At
11/22/04	While drilling	7.8'	8.0'
11/22/04	Before casing removed	5.5'	48.5'
11/22/04	After casing removed	3.9'	out
11/22/04	After casing removed	caved @ 44.8'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT 'N' or RQD
			From	To					
0	XXX						0.3	Asphalt Pavement	
	H	1a	0.5	1.5	SS/16	5-9-6		Brown SILT, some cmf GRAVEL, some cmf SAND (moist)	15
	O	1b	1.5	2.0				Dark Brown cmf SAND and CINDERS, some SILT (moist)	
	L	2	2.0	4.0	SS/6	6-13-4-3		Similar Material (moist)	17
5	L	3	4.0	6.0	SS/5	4-7-14-7		Brown to Black cmf GRAVEL, some WOOD, some cmf SAND (saturated)	21
	O	4a	6.0	6.5	SS/18	4-1-1-1		~ Unprepared Miscellaneous Fill ~ Dark Brown cmf GRAVEL, some SILT, some cmf SAND (saturated)	2
	W	4b	6.5	8.0			6.5	Beige MARL (saturated)	
		5	8.0	10.0	SS/0	4-1-1-1		No Recovery	2
10		6	10.0	12.0	SS/0	2-1-WH-1		No Recovery	1
	S								
	T	7	12.0	14.0	SS/16	1-1-WH-1		Beige MARL, trace Black PEAT (saturated)	1
15	E	8	14.0	16.0	SS/20	WH-1-WH-1		Similar Material (saturated)	1
	M	9	16.0	18.0	SS/6	WH-WH-WH-2		Beige MARL (saturated)	WH
		10	18.0	20.0	SS/6	WH-2-1-WH		Similar Soil (saturated)	3
20	A								
	U								
	G								
	E	11a	23.5	24.5	SS/16	WH-WH-WH	24.5	Beige MARL, some Brown PEAT (saturated)	WH
		11b	24.5	25.0				Grey CLAY (saturated, very soft)	
25	R								

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth (Feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %		SPT "N" or RQD
			From	To				c - coarse m - medium f - fine		
25	H							Continued from page 1		
	O									
	L	12	28.5	30.0	SS/6	WR-WR-WR		Grey CLAY, little SILT (saturated, very soft)		WR
30	L									
	O									
	W	13	33.5	35.0	SS/2	WH-WH-WH		Similar Soil (saturated, very soft)		WH
35	O									
	S									
	T									
	E	14	38.5	40.0	SS/12	WR-WR-WH		Similar Soil (saturated, very soft)		WH
40	M									
	A	15	43.5	45.0	SS/16	WR-WR-WH		Similar Soil (saturated, very soft)		WH
45	U									
	G									
	E	16	48.5	50.0	SS/12	WH-WH-WH		Grey CLAY, some SILT (saturated, very soft)		WH
50	R									
								Continued on page 3		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, Weight of Hammer and Rod, WR - Weight of Rod  
 Remarks:

LOG OF BORING SAMPLES						CLASSIFICATION OF MATERIAL				
Depth Scale (ft)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
50	H							Continued from page 2		
		17	53.5	55.0	SS/12	WH-4-10	52.9	<i>Harder advancement with augers @ 52.9'</i>		
55	S							Grey Brown cmf SAND and mf GRAVEL (saturated, medium compact)		14
		18	58.5	60.5	SS/12	14-8-65-92	57.0	~ Glacial Till ~		
60	A XXX							Pinkish Brown SILT, some mf GRAVEL, some cmf SAND, little CLAY (moist, hard)		73
								Bottom of Boring @ 60.5'		
70										
75										

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer and Rod

Remarks:



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<b>Boring ID:</b>	PB-11	<b>Page:</b>	1 of 1
<b>Project:</b>	Midler Ave. Brownsfield	<b>Date:</b>	November 29, 2004
<b>Client:</b>	Pioneer Midler Ave., LLC	<b>Start:</b>	1110
<b>Contractor:</b>	CME Associates, Inc.	<b>Finish:</b>	1200
<b>Equipment:</b>	Truck Mounted Drill Rig	<b>C&amp;S Rep.:</b>	Robert MacMurray

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	14	46	14.2	10" of Light Grey -to- Black -to- Dark Brown, F-M-C Sand and F-M-C Gravel 4" of Dark Brown -to- Red, Foundry Sand, Slag, and Ash	4" Asphalt above Spoon
2						
3	2	10	10	12.8	5" of Dark Brown -to- Red, Foundry Sand, Slag, and Ash 5" of Dark Brown -to- Red, F-M-C Sand and Foundry Sand	
4						
5	3	6	7	0.9	1" of Dark Brown -to- Red, F-M-C Sand and Foundry Sand 5" of white, Wet, Silt and Marl	Slight Sulfur Odor
6						
7	4	1	2	0.5	White, Wet, Silt and Marl, with Trace Peat	Slight Sulfur Odor
8						
9	5	22	4	3.2	Light Brown -to- Yellow, Wet, Marl	Moderate Sulfur Odor
10						
11	6	24	WH	0.0	Light Brown -to- Yellow, Wet, Marl and F-M Sand	Moderate Sulfur Odor
12						
13	7	24	WH	0.0	Light Brown -to- Yellow, Wet, Marl and F-M Sand, with Trace Shells	Strong Sulfur Odor
14						
15	8	24	1	13.3	Light Brown -to- Tan, Wet, Marl	Strong Sulfur Odor
16						
17	9	24	1	23.3	Light Brown -to- Yellow, Wet, Marl, with Little Peat and Trace Shells	Strong Sulfur Odor
18						
19	10	0	WH	na	No Recovery	No Recovery
20						

**SAMPLING METHOD: ASTM D-1586**

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 3.0" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 10.0  
 Elevated background PID levels attributed to exhaust from drill rig because spoons were opened and analyzed at a location situated approximately 2' from the truck's exhaust port  
 The groundsurface at the location of the boring consisted of an asphaltic parking area



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**Boring ID:** PB-12 **Page:** 1 of 1  
**Project:** Midler Ave. Brownsfield **Date:** November 24, 2004  
**Client:** Pioneer Midler Ave., LLC **Start:** 0820  
**Contractor:** CME Associates, Inc. **Finish:** 0940  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig **C&S Rep.:** Robert MacMurray

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0				0.5		
1	1	20	9	2.6	6" of Light -to- Medium Brown. Silt and F Sand, with Some F Gravel	
				1.8	14" of Dark Brown -to- Black, F-M-C Sand, Foundry Sand, Slag, and Ash	
2				1.8		
3	2	12	4	2.9	Dark Brown -to- Black, F-M-C Sand, Foundry Sand, Slag, and Ash	
				1.6		
4				2.1		
5	3	11	4	2.5	7" of Dark Brown, F-M-C Sand, Foundry Sand, Slag, and Ash	
				1.6	4" of Black, F-M-C Sand and Foundry Sand	
				2.2		
7	4	15	8	2.6	Black, F-M-C Sand and Foundry Sand	
				2.3		
				2.3		
8				2.4		
9	5	18	2	2.7	8" of Black, F-M-C Sand and Foundry Sand	
				2.9	5" of Dark Brown -to- Red, Wet, Peat	
				1.9	5" of Light Brown -to- Tan, Wet, Marl	
10				2.5		
11	6	22	2	2.9	Light Brown -to- Tan, Wet, Marl, with Little Peat	Slight Sulfur Odor
				3.3		
				2.3		
12				2.8		
				0.5		
13	7	12	1	1.6	Light Brown -to- Tan, Wet, Marl	Slight Sulfur Odor
				0.8		
14				1.0		
				3.5		
15	8	20	WH	3.4	Light Brown -to- Tan, Wet, Marl	Slight Sulfur Odor
				0.8		
16				2.6		
				9.6		
17	9	23	1	8.9	Light Brown -to- Tan, Wet, Marl, with Little Peat	Moderate Sulfur Odor
				1.9		
18				6.8		
				44.0		
19	10	19	1	13.3	Light Brown, -to- Tan, Wet, Marl, with Little Peat	Strong Sulfur Odor
				18.3		
20				25.2		

**SAMPLING METHOD:** ASTM D-1586  
**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 (1) Three separate PID readings were taken for each interval, the first of which was an open air reading while in the spoon; furthermore, the second and third were headspace readings taken after the spoon was bagged. Then all PID readings were averaged together to generate the PID reading that is shown within the shaded area  
 Material collected from the 18 - 20' interval was bottled and sent to the laboratory for analysis, due to odor



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**Boring ID:** PB-13  
**Project:** Midler Ave. Brownsfield  
**Client:** Pioneer Midler Ave., LLC  
**Contractor:** CME Associates, Inc.  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig

**Page:** 1 of 1  
**Date:** November 16, 2004  
**Start:** 1115  
**Finish:** 1230  
**C&S Rep.:** Robert MacMurray

DEPTH (FT)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS
0						
1	1	12	6	0.1	6" of Dark Brown, Moist, M-C Sand and F Gravel, with Trace Slag 6" of Dark Brown -to- Black, Moist, F-M-C Sand and F Gravel, with Trace Slag	
2						
3	2	14	9	39.0	Dark Brown -to- Black, Moist, F-M-C Sand, with Trace Slag and Concretions	Waste Oil Odor, with PID Readings of 0.5 - 39.0
4						
5	3	14	3	14.0	2" of Dark Brown -to- Black, F-M-C Sand 12" of Dark Brown -to- Red, Peat	Slight Waste Oil-ish Odor
6						
7	4	17	1	3.4	10" of Dark Brown -to- Red, Moist, Peat 7" of Light Brown -to- Cream, Marl	Organic Odor
8						
9	5	13	WH	4.6	Light Brown, Wet, Marl	
10						
11	6	19	WH	1.2	9" of Medium Brown, Wet, Marl and Peat 10" of Light Brown, Moist, Marl	
12						
13	7	18	WH	1.8	Light Brown, Wet, Marl, with some Peat	
14						
15	8	24	WH	12.6	Light Brown, Wet, Marl, with some Peat	
16						
17	9	18	WH	Unk.	12" of Light Brown, Wet, Marl, with Little Peat 8" of Grey, Wet, Clay	PID Non-Operational
18						
19	10	22	WH	0.5	Light Grey, Wet, Clay, with Some F Sand	
20						

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:**

2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer

Background PID = 0.0 - 1.0

PID unit malfunctioned between monitoring of the 14-16 and 16-18 layers. Borrowed and used other field PID to monitor the 18-20 layer, by which time the 16-18 layer had been discarded and was not available to monitor



**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York **Report No.:** 25668B-01-1204  
**Client:** Pioneer Companies **Date Started:** 11/15/04 **Finished:** 11/16/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 418.8'

**METHODS OF INVESTIGATION**

**GROUND WATER OBSERVATIONS**

<b>Casing:</b> 4-1/4" ID H. Stem Auger	<b>Driller:</b> Al Linstruth	Date	Time	Depth	Casing At
<b>Casing Hammer:</b>	<b>Driller:</b> Jeremie Walshvelo				
<b>Other:</b>	<b>Inspector:</b>				
<b>Soil Sampler:</b> 2" OD Split Barrel	<b>Rod Size:</b> AWJ				
<b>Sampler Hammer:</b> Wt. 140 lbs.	<b>Fall:</b> 30 in.				
<b>Make &amp; Model of Drill Rig:</b> Deidrich D120 Truck Mounted		11/15/04	While drilling	5.9'	6.0'
		11/16/04	Before casing removed	38.9'	53.0'
		11/16/04	After casing removed	3.7'	out
		11/16/04	After casing removed	caved @ 31.0'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX H	1a	0.0	0.2	SS/18	4-5-4-3	0.2	Topsoil (moist)	
		1b	0.2	2.0				Brown mf SAND, little SLAG (moist)	
5	O L	2	2.0	4.0	SS/12	7-6-3-4		Black and Brown mf SAND (moist)	9
		3	4.0	6.0	SS/12			2-1-1-1	Black mf SAND (saturated) ~ Unprepared Miscellaneous Fill ~
10	O W	4	6.0	8.0	SS/4	WH-WH-WH-WH	8.0	Brown mf SAND, trace fine GRAVEL, trace PEAT (saturated)	WH
		5	8.0	10.0	SS/4			WR-1-WH-1	Beige MARL (saturated)
15	S T	6	10.0	12.0	SS/20	WH-WH-WH-1		Beige MARL (saturated)	WH
		7	12.0	14.0	SS/20			WH-WH-WH-WH	Beige MARL (saturated)
20	E M	8	14.0	16.0	SS/24	WH-WH-WH-WH		Light Brown MARL, some Dark Brown PEAT (saturated)	WH
		9	16.0	18.0	SS/20			WH-WH-WH-WH	Beige MARL, trace Dark Brown PEAT, trace Grey CLAY (saturated)
25	A U G E R	10a	18.0	19.2	SS/22	WH-WH-WH-WH	19.2	Beige MARL (saturated)	WH
		10b	19.2	20.0				Grey CLAY, trace SILT (saturated, very soft)	
25		11	23.5	25.0	SS/14	WR-WH-WH		Brown SILT and CLAY, trace fine SAND seams (saturated, very soft)	WH

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod, WR- Weight of Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale )	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	e - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
	O									
	L	12	28.5	30.0	SS/10	WH-WH-WH		Brown SILT and CLAY, trace fine SAND (saturated, very soft)		WH
30	L									
	O									
	W	13	33.5	35.0	SS/16	WR-WH-WH		Similar Soil (saturated, very soft)		WH
35										
	S									
	T									
	E	14	38.5	40.0	SS/14	WR-WH-WH		Brown SILT, little CLAY (saturated, very soft)		WH
40	M									
							42.8	<i>Harder auger penetration @ 42.8'</i>		
		15	43.5	45.0	SS/12	8-17-20		Pinkish-Brown SILT, some mf GRAVEL, some mf SAND, little CLAY (moist, hard)		37
45	A									
	U									
	G							~ Glacial Till ~		
	E	16	48.5	49.7	SS/12	32-70-100@2"		Pinkish-Brown SILT, some Green SILTSTONE GRAVEL, little cmf SAND, trace CLAY (moist, hard)		100+
50	R							Continued on page 3		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer and Rod, WR - Weight of Rod  
 Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth (feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT 'N' or RQD
			From	To						
50	H	17	53.0	54.5	SS/18	36-56-68				124
	S									
	A									
	XXX									
55										
60										
65										
70										
75										

Continued from page 2

~ Glacial Till ~

Similar Soil (moist, hard)

Bottom of Boring @ 54.5'

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
 Remarks:



**ENGINEERS**  
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**Boring ID:** PB-15 **Page:** 1 of 1  
**Project:** Midler Ave. Brownsfield **Date:** November 30, 2004  
**Client:** Pioneer Midler Ave., LLC **Start:** 1505  
**Contractor:** CME Associates, Inc. **Finish:** 1600  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig **C&S Rep.:** Robert MacMurray

DEPTH (FT)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (FT)
0							
1	1	21	4	1.1	6" of Dark Brown -to- Black, Moist, F-M-C Sand and Silt 11" of Dark Brown -to- Black, Moist, F-M-C Sand and Foundry Sand 4" of Dark Brown -to- Black, Moist, F-M-C Sand and Slag, with Some Foundry Sand		
2							
3	2	15	2	1.1	6" of Dark Brown -to- Black, Moist, F-M-C Sand and Foundry Sand 6" of Dark Brown -to- Red, Moist, Silt and Peat 3" of White, Wet, Marl and Silt		
4							
5	3	6	1	0.7	Light Brown -to- Tan, Wet, Marl and Silt		
6							
7	4	24	1	49.0	6" of Light Brown -to- Tan, Wet, Marl and Silt 18" of Dark Brown -to- Red, Wet, peat	Strong Sulfur Odor Wood in Tip of Shoe	
8							
9	5	8	3	121.0	Dark Brown -to- Red, Wet, Peat, with Little Wood	Very Strong Sulfur Odor	
10							
11	6	15	2	43.3	Dark Brown -to- Red, Wet, Peat, with Little Wood	Very Strong Sulfur Odor	
12							
13	7	5	1	5.2	Dark Brown -to- Red, Wet, Peat, with Little Wood	Very Strong Sulfur Odor	
14							
15	8	14	WH	13.5	8" of Dark Brown -to- Red, Wet, Peat, with Some Wood and Little Marl 6" of Light Grey, Wet, Clay	Strong Sulfur Odor	
16							
17	9	20	WH	0.7	Light Grey -to- Faint Pink, Wet, Clay, with Some Silt		
18							
19	10	19	WH	0.4	Light Grey -to- Pink, Wet, Clay and Silt		
20							

**SAMPLING METHOD:** ASTM D-1586  
**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0

**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York **Report No.:** 25668B-01-1204  
**Client:** Pioneer Companies **Date Started:** 12/03/04 **Finished:** 12/03/04  
**Location of Boring:** See Boring Location Sketch **Elevation of Surface of Boring:** 418.5'

**METHODS OF INVESTIGATION**

**GROUND WATER OBSERVATIONS**

<b>Casing:</b> 3-1/4" ID H. Stem Auger	<b>Driller:</b> Al Linstruth	Date	Time	Depth	Casing At
<b>Casing Hammer:</b>	<b>Driller:</b> Jeremie Walshvelo				
<b>Other:</b>	<b>Inspector:</b> Doug Hurlbut				
<b>Soil Sampler:</b> 2" OD Split Barrel	<b>Rod Size:</b> AWJ				
<b>Sampler Hammer:</b> Wt. 140 lbs.	<b>Fall:</b> 30 in.				
<b>Make &amp; Model of Drill Rig:</b> CME 55 Truck Mounted		12/03/04	While drilling	4.4'	4.0'
		12/03/04	Before casing removed	5.6'	53.5'
		12/03/04	After casing removed	4.3'	out
		12/03/04	After casing removed	caved @ 24.3'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX H	1	0.0	2.0	SS/12	1-2-3-4		Brown mf Foundry SAND, little SLAG, trace GLASS (moist)	5
	O	2	2.0	4.0	SS/12	3-2-2-3		Similar Material (moist) ~ Unprepared Miscellaneous Fill ~	4
5	L L	3	4.0	6.0	SS/13	4-2-3-3		Brown Foundry SAND, some SLAG, little WOOD (saturated)	5
	O W	4	6.0	8.0	SS/10	2-2-2-2		Brown Foundry SAND, SLAG, ORGANICS (saturated)	4
		5	8.0	10.0	SS/217	2-1-1-2	8.0	Tan MARL (saturated, soft)	2
10		6	10.0	12.0	SS/16	2-1-1-2		Similar Soil (saturated, soft)	2
	S T	7	12.0	14.0	SS/20	1-1-2-1		Tan MARL, little Dark Brown PEAT, trace SHELLS and FIBERS (saturated, soft)	3
15	E M	8	14.0	16.0	SS/	WH-WH-WH-1		Similar Soil (saturated, very soft)	WH
		9a	16.0	17.5	SS/24	2-1-1-1	17.5	Similar Soil (saturated, soft)	2
		9b	17.5	18.0				Grey CLAY, trace SILT (saturated, soft)	
20	A U G	10	18.0	20.0	SS/11	WH-WH-WH-WH		Similar Soil (saturated, very soft)	WH
25	E R	11	23.5	25.0	SS/14	WH-WH-WH		Similar Soil (saturated, very soft)	WH

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
	O									
	L	12	28.5	30.0	SS/16	WH-WH-WH		Grey CLAY, trace SILT (saturated, very soft)	WH	
	L									
30	O									
	W	13	33.5	35.0	SS/12	WH-WH-WH		Similar Soil (saturated, very soft)	WH	
35	S									
	T	14	38.5	40.0	SS/12	WH-WH-WH		Similar Soil (saturated, very soft)	WH	
	E									
40	M									
		15	43.5	45.0	SS/14	WH-WH-WH		Similar Soil (saturated, very soft)	WH	
	A									
45	U									
	G						47.3	<i>Felt gravel while augering @ 47.3'</i>		
		16a	48.5	49.5	SS/8	14-12-16		Brown cmf GRAVEL, some cmf SAND, little	28	
	E						49.5	SILT (saturated, medium compact)		
	R	16b	49.5	50.0				Pinkish-Brown SILT, some cmf GRAVEL, little CLAY, trace fine SAND(moist, very stiff) ~ Glacial Till ~		
50								Continued on page 3		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES						CLASSIFICATION OF MATERIAL					
Depth (feet)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	CLASSIFICATION OF MATERIAL			
			From	To				c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT 'N' or RQD	
50	H	17	53.5	53.9	SS/4	100@5"		Continued from page 2			100+
	S							~ Glacial Till ~			
	A							Pinkish-Brown SILT, some cmf SAND, little cmf GRAVEL (moist, hard)			
55	XXX							Bottom of Boring @ 53.9'			
60											
65											
70											
75											

\*SS - Split Spoon, U - Undisturbed Tube, C - Core  
 Remarks:



**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL SERVICES  
 OPERATIONS

**C&S Engineers, Inc.**  
 499 Col. Eileen Collins Blvd  
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 Phone: (315) 455-2000  
 Fax: (315) 455-9666

**Boring ID:** PB-17 **Page:** 1 of 1  
**Project:** Midler Ave. Brownsfield **Date:** December 12, 2004  
**Client:** Pioneer Midler Ave., LLC **Start:** 1220  
**Contractor:** CME Associates, Inc. **Finish:** 1305  
**Equipment:** Draiger D-120 Truck Mounted Drill Rig **C&S Rep.:** Robert MacMurray

DEPTH (Ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (Ft)
0							
1	1	20	6	0.0	9" of Light -to- Medium Grey, Wet, F-M-C Sand and F-M-C Gravel, with Little Silt 11" of Dark Brown -to- Black, Foundry Sand, Slag, and Ash		
2							
3	2	18	2	1.2	10" of Dark Brown -to- Black, Foundry Sand, Slag, and Ash 4" of Dark Brown, Wet, F-M-C Sand and Peat 4" of Light Brown -to- White, Wet, Marl		
4							
5	3	20	WH	7.6	Light Brown -to- Creamish, Moist, Marl, with Trace Peat	Moderate Sulfur Odor	
6							
7	4	20	WH	10.9	Light Brown -to- Creamish, Moist, Marl, with Trace Peat	Moderate Sulfur Odor	
8							
9	5	22	1	1.8	Light Brown -to- Tan, Wet, Marl	Moderate Sulfur Odor	
10							
11	6	19	2	1.9	Light Brown -to- Tan, Wet, Marl	Moderate Sulfur Odor	
12							
13	7	23	WH	4.4	Light Brown -to- Tan, Wet, Marl, with Trace Shells	Moderate Sulfur Odor	
14							
15	8	23	WH	1.0	Light Brown -to- Tan, Wet, Marl, with Trace Peat	Moderate Sulfur Odor	
16							
17	9	22	WH	1.7	Light Brown -to- Tan, Wet, Marl	Moderate Sulfur Odor	
18							
19	10	18	WH	15.0	Light Brown -to- Tan, Wet, Marl, with Trace Peat	Moderate Sulfur Odor	
20							

**SAMPLING METHOD:** ASTM D-1586  
**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0



**SUBSURFACE EXPLORATION – TEST BORING LOG**

**Project:** Retail Development, Midler Avenue, Syracuse, New York  
**Client:** Pioneer Companies  
**Report No.:** 25668B-01-1204  
**Date Started:** 12/01/04 **Finished:** 12/01/04  
**Location of Boring:** See Remarks Below  
**Elevation of Surface of Boring:** 418.2'

**METHODS OF INVESTIGATION**

**Casing:** 4-1/4" ID H. Stem Auger  
**Casing Hammer:**  
**Other:**  
**Soil Sampler:** 2" OD Split Barrel  
**Sampler Hammer:** Wt. 140 lbs.  
**Make & Model of Drill Rig:** Deidrich D120 Truck Mounted  
**Driller:** Al Linstruth  
**Driller:** Jeremie Walshvelo  
**Inspector:** Douglas Hurlbut  
**Rod Size:** AWJ  
**Fall:** 30 in.

**GROUND WATER OBSERVATIONS**

Date	Time	Depth	Casing At
12/01/04	While drilling	7.0'	8.0'
12/01/04	Before casing removed	7.5'	58.8'
12/01/04	After casing removed	3.9'	out
12/01/04	After casing removed	caved @ 6.0'	out

**LOG OF BORING SAMPLES**

**CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Casing Blows/Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c – coarse m – medium f – fine and – 35 to 50 % some – 20 to 35 % little – 10 to 20 % trace – 0 to 10 %	SPT "N" or RQD
			From	To					
0	XXX H	1	0.0	1.8	SS/14	8-7-8-100@3"		Brown and Black mf SAND, trace BRICK, trace SLAG (moist, medium compact)	15
	O	2	2.0	4.0	SS/14	7-12-4-4		Similar Material (moist, medium compact)	16
	L	3	4.0	6.0	SS/8	5-4-3-3		Black Foundry SAND (wet)	7
5	L						6.0	~ Unprepared Miscellaneous Fill ~	
	O	4	6.0	8.0	SS/1	3-1-1-2		Black PEAT (saturated)	2
	W	5	8.0	10.0	SS/0	2-1-1-WH		No Recovery	2
10		6	10.0	12.0	SS/14	1-WH-WH-1		Beige MARL (saturated)	WH
	S	7	12.0	14.0	SS/6	1-WH-WH-WH		Beige MARL (saturated)	WH
	T	8	14.0	16.0	SS/0	WH-WH-WH-WH		No Recovery	WH
15	E								
	M	9a	16.0	17.7	SS/24	WH-WH-WH-WH	17.7	Light Grey/Brown MARL (saturated)	WH
		9b	17.7	18.0				Grey CLAY (saturated, very soft)	
		10a	18.0	19.8	SS/20	WH-WH-WH-WH	18.0		
20	A	10b	19.8	20.0			19.8	Beige MARL (saturated)	WH
	U							Grey CLAY (saturated, very soft)	
	G	11	23.5	25.0	SS/3	WH-WH-WH		Grey CLAY (saturated, very soft)	WH
25	E								
	R								

Continued on page 2

\*SS – Split Spoon, U – Undisturbed Tube, C – Core, WH – Weight of Hammer and Rod  
 Remarks: Moved boring 12.0 feet North due to utility conflicts.

LOG OF BORING SAMPLES							CLASSIFICATION OF MATERIAL			
Depth Scale (ft)	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
25	H							Continued from page 1		
	O									
	L	12	28.5	30.0	SS/12	1-WH-WH		Grey CLAY and SILT (saturated, very soft)	WH	
30	L									
	O									
	W	13	33.5	35.0	SS/14	WH-WH-WH		Grey CLAY, some SILT (saturated, very soft)	WH	
35										
	S									
	T	14	38.5	40.0	SS/14	WH-WH-WH		Similar Soil (saturated, very soft)	WH	
	E									
	M							<i>Gravelly Drilling at 41.2'</i>		
		15	43.5	45.0	SS/18	WH-WH-WH		Grey CLAY, trace SILT layers (saturated, very soft)	WH	
45	A									
	U									
	G									
	E	16	48.5	50.0	SS/18	WH-WH-WH		Similar Soil (saturated, very soft)	WH	
50	R									

Continued on page 3

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer and Rod

Remarks:

LOG OF BORING SAMPLES						CLASSIFICATION OF MATERIAL				
Depth ( )	Casing Blows/ Foot	Sample I.D.	Depth of Sample (Feet)		Sample Type/ Recovery (Inches)	Blows On Sampler Per 6 inches	Depth Of Change (feet)	c - coarse m - medium f - fine	and - 35 to 50 % some - 20 to 35 % little - 10 to 20 % trace - 0 to 10 %	SPT "N" or RQD
			From	To						
50	H O L L O W  S T E M  A U G E R  XXX	17	53.5	55.0	SS/18	WH-WH-WH			Continued from page 2	WH
55										
60		18	58.5	60.0	S/12	12-9-11	57.0		Grey cmf GRAVEL and cmf SAND, trace SILT (saturated, medium compact)	20
65										
70										
75	19	63.5	64.3	SS/9	35-100@4"			Harder advancement with augers @ 61.5' ~ Glacial Till ~	100+	
								Pinkish-Brown SILT, some CLAY, some cmf GRAVEL, little cmf SAND (moist, hard) Bottom of Boring @ 64.3'		

\*SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer and Rod  
 Remarks:



**ENGINEERS**  
 DESIGN BUILD  
 TECHNICAL SERVICES  
 CONSULTANTS

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 Fax: (315) 455-9667

<b>Boring ID:</b> PB-19	<b>Page:</b> 1 of 1
<b>Project:</b> Midler Ave. Brownsfield	<b>Date:</b> November 30, 2004
<b>Client:</b> Pioneer Midler Ave., LLC	<b>Start:</b> 0840
<b>Contractor:</b> CME Associates, Inc.	<b>Finish:</b> 0930
<b>Equipment:</b> Draiger D-120 Truck Mounted Drill Rig	<b>C&amp;S Rep.:</b> Robert MacMurray

DEPTH (FU)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (FU)
0					9" of Dark Brown -to- Black, Silt, F-M-C Sand, F-M Gravel, and Ash 4" of Medium Brown, Moist, Silt, F-M-C Sand, and F-M Gravel 4" of Dark Brown -to- Black, Moist, Silt and F-M-C Sand		
1	1	17	8	0.0			
2					9" of Medium -to- Dark Brown -to- Black, Silt and F-M-C Sand, with Some Ash and Slag 8" of Black -to- Red, Wet, Foundry Sand, Ash, and Slag 7" of Wet, Wood	Black -to- Red Material was Highly Odorous	
3	2	24	11	7.7			
4					Dark Brown, Moist, F-M-C Sand, with Little Silt and Little Wood		
5	3	10	2	0.3			
6					6" of Black, Wet, F-M-C Sand, with Little Wood 1" of Light Brown -to- Tan, Wet, Silt and Marl		
7	4	7	WH	0.5			
8					8" of Light Brown -to- Tan, Wet, Silt and Marl 1" of Dark Brown -to- Red, Wet, Peat	Moderate Sulfur Odor	
9	5	9	WH	3.3			
10					14" of Light Brown -to- Yellow -to- Tan, Wet, Marl 6" of Yellow, Wet, Marl and F Gravel	Strong Sulfur Odor	
11	6	20	2	28.9			
12					Light Brown -to- Pink, Wet, Silt and Marl, with Trace Peat	Strong Sulfur Odor	
13	7	21	WH	21.5			
14					Light Brown -to- Tan, Wet, Silt and Marl, with Little Peat	Strong Sulfur Odor	
15	8	24	WH	34.7			
16					Light Brown -to- Tan, Wet, Silt and Marl, with Trace Peat	Strong Sulfur Odor	
17	9	24	WH	46.1			
18					22" of Light -to- Medium Brown -to- Tan, Wet, Silt and Marl 2" of Light Grey, Clay with Some Marl	Strong Sulfur Odor	
19	10	24	WH	27.5			
20							

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 4.25" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0



**ENGINEERS**  
 DESIGN/BUILD  
 TECHNICAL RESOURCES  
 OPERATIONS

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 Fax: (315) 455-9666

Boring ID: PB-20  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: CME Associates, Inc.  
 Equipment: Truck Mounted Drill Rig

Page: 1 of 1  
 Date: November 24, 2004  
 Start: 1140  
 Finish: 1300  
 C&S Rep.: Brian Hough

DEPTH (FT)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (FT)
0							
1	1	5	Unk	0.1	Black -to- Dark Brown -to- Red, Dry, Course Fill	Poor Recovery	
2							
3	2	3	Unk	0.1	Black -to- Dark Brown -to- Red, Dry, Course Fill	Poor Recovery	
4							
5	3	4	Unk	0.1	3" of Black -to- Dark Brown -to- Red, Dry, Course Fill 1" of Light Tan, Moist -to- Wet, Clay and Silt	Poor Recovery	
6							
7	4	18	Unk	0.5	14" of Light Tan, Moist -to- Wet, Clay and Silt 4" of Red -to- Brown, Wet, Sand and Silt, with Some Peat	Strong Sulfur Odor	
8							
9	5	16	Unk	8.4	14" of Red -to- Brown, Wet, Sand and Silt, with Some Peat 1" of Dark Brown -to- Red, Peat 1" of Tan, F Sand, Silt, and Marl	Strong Sulfur Odor	
10							
11	6	2	Unk	9.3	Tan, F Sand, Silt, and Marl, with Some Peat		
12							
13	7	20	Unk	0.8	15" of Tan, F Sand, Silt, and Marl 5" of Tan, Wet, F-M-C Sand and F-M-C Gravel		
14							
15	8	24	Unk	1.9	Tan, Wet, F-M-C Sand and F-M-C Gravel		
16							
17	9	24	Unk	24.4	20" of Tan, Wet, F-M-C Sand and F-M-C Gravel 1" of Dark Brown -to- Red, Peat 3" of Tan, Wet, Sand and Silt, with Some Peat	Strong Sulfur Odor	
18							
19	10	Jnk	Unk	0.8	Unk." of Light Grey, Silt and Clay Unk." of Tan, Silt, Clay, and Marl	Recovery Not Recorded	
20							

**SAMPLING METHOD: ASTM D-1586**  
**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 3.0" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 Blow counts and N-values where not recorded on the boring logs



**ENGINEERS**  
 DESIGN/BUILD  
 GEOTECHNICAL RESOURCES  
 CORPORATION

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Boring ID: PB-21  
 Project: Midler Ave. Brownsfield  
 Client: Pioneer Midler Ave., LLC  
 Contractor: CME Associates, Inc.  
 Equipment: Truck Mounted Drill Rig

Page: 1 of 1  
 Date: November 23, 2004  
 Start: 1515  
 Finish: 1615  
 C&S Rep.: Robert MacMurray

DEPTH (ft)	SAMPLE No.	RECOVERY (in)	N-VALUE	PID READING (ppm)	PHYSICAL DESCRIPTION LITHOLOGY	COMMENTS	DEPTH (ft)
0							
1	1	11	19	0.0	10" of Light Grey F-M-C Sand and F-M-C Gravel 1" of Black F-M-C Sand, Ash, Foundry Sand, and Slag	8" Asphalt above Spoon	
2							
3	2	11	9	0.3	Black F-M-C Sand, Ash, Foundry Sand, with Some M-C Gravel	No Recovery with 2" Spoon, Followed with 3"	
4							
5	3	20	32	0.0	Black F-M-C Sand, Ash, and Foundry Sand, with Some Slag	Metallic Odor	
6							
7	4	20	2	5.6	Black F-M-C Sand, Ash, and Foundry Sand, with Some Slag		
8							
9	5	24	1	0.6	10" of Black F-M-C Sand, Ash, and Foundry Sand, with Some Slag 2" of Dark Brown -to- Red, Peat 12" of Light Brown -to- Tan, Marl	Moderate Sulfur Odor	
10							
11	6	20	1	0.7	Light Brown -to- Tan, Marl, with Some Peat	Slight Sulfur Odor	
12							
13	7	24	7	0.0	Light -to- Medium Brown -to- Red -to- Orange -to- Green, Marl, with Little Peat	Slight Sulfur Odor	
14							
15	8	15	WH	0.0	5" of Medium Brown -to- Black, F-M-C Sand, Ash, and Foundry Sand 1" of C Cobbles 9" of Medium -to- Dark Brown, F-M-C Gravel, with Some Marl and Shells		
16							
17	9	11	WH	9.3	2" of Medium -to- Dark Brown, F-M-C Gravel, with Some Marl and Shells 9" of Light Brown -to- Tan, Wet, Marl	Moderate Sulfur Odor	
18							
19	10	24	WH	38.6	9" of Light Brown -to- Tan, Wet, Marl 15" of Light Brown -to- Tan, Wet, Marl, with Little Peat	Moderate Sulfur Odor	
20							

**SAMPLING METHOD:** ASTM D-1586

**GENERAL NOTES:** 2" Diameter, 2' Long Split-Spoons with Truck Mounted Pneumatic Hammer and a 3.0" Hollow Stem Auger  
 " WH " denotes an N-Value equivalent to Weight of Hammer  
 Background PID = 0.0 - 1.0  
 The groundsurface at the location of the boring consisted of an asphaltic roadway

## **PID LOGS**

Midler City Industrial Park Site

PID Headspace Measurements for  
Environmental Borings and Monitoring Wells

Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
B-1	0-2	20.8
	2-4	83.4
	4-6	129.2
	6-8	33.8
	8-10	35.2
	10-12	88.4
	12-14	43.8
	14-16	51.0
	16-18	NR
	18-20	0.3
B-2	1-3	NR
	3-5	0.0
	5-7	0.1
	7-9	0.5
	9-11	0.6
	11-13	0.8
	13-15	0.6
	15-17	0.5
	17-19	0.7
B-3	0-2	13.5
	2-4	5.0
	4-6	10.6
	6-8	10.6
	8-10	9.7
	10-12	37.2
	12-14	42.3
	14-16	264.2
	16-18	143.7
	18-20	5.5
B-4	0-2	0.0
	2-4	0.0
	4-6	0.0
	6-8	0.0
	8-10	0.1
	10-12	0.2
	12-14	0.5
	14-16	0.1



Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
B-4	16-18	7.9
	18-20	4.5
B-5	0-2	0.3
	2-4	1.2
	4-6	8.7
	6-8	14.2
	8-10	10.2
	10-12	13.4
	12-14	7.7
	14-16	32.9
	16-18	5.4
	18-20	0.4
B-6	0-2	4.2
	2-4	11.5
	4-6	5.1
	6-8	6.7
	8-10	8.1
	10-12	8.8
	12-14	9.1
	14-16	8.0
	16-18	8.4
	18-20	15.4
B-7	0-2	1.0
	2-4	3.8
	4-6	0.0
	6-8	0.1
	8-10	NR
	10-12	0.6
	12-14	NR
	14-16	1.0
	16-18	4.1
	18-20	0.0
B-8	0-2	2.5
	2-4	4.5
	4-6	2.2
	6-8	2.5
	8-10	1.8
	10-12	6.5
	12-14	1.8
	14-16	2.2
16-18	2.6	

Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
B-8	18-20	1.9
B-9	0-2	0.6
	2-4	16.2
	4-6	2.9
	6-8	3.2
	8-10	0.4
	10-12	1.2
	12-14	3.5
	14-16	3.7
	16-18	2.5
	18-20	1.8
B-10	0-2	0.4
	2-4	8.2
	4-6	8.9
MW-1	0-2	1.7
	2-4	1.4
	4-6	2.2
	6-8	0.7
	8-10	2.1
	10-12	1.0
	12-14	NR
	14-16	NR
MW-2	16-18	0.6
	0-2	2.5
	2-4	3.3
	4-6	0.0
	6-8	0.0
	8-10	0.9
	10-12	0.3
	12-14	5.1
	14-16	5.9
	16-18	52.6
	18-20	NR
MW-3	20-22	0.3
	0-2	0.0
	2-4	0.0
	4-6	4.5
	6-8	NR
	8-10	0.8
	10-12	0.4
12-14	5.2	

Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
MW-3	14-16	NR
	16-18	27.3
	18-20	21.9
	20-22	12.6
MW-4	0-2	0.4
	2-4	9.0
	4-6	4.4
	6-8	NR
	8-10	NR
	10-12	NR
	12-14	29.1
	14-16	33.2
MW-5	0-2	0.4
	2-4	3.9
	4-6	0.8
	6-8	2.2
	8-10	10.7
	10-12	16.6
	12-14	27.9
	14-16	22.8
	16-18	14.0
18-20	0.2	
MW-6	0-2	0.9
	2-4	1.0
	4-6	18.9
	6-8	10.4
	8-10	2.3
	10-12	11.9
	12-14	2.0
	14-16	23.2
	16-18	5.8
	18-20	1.3
MW-7	0-2	0.2
	2-4	0.7
	4-6	2.0
	6-8	1.7
	8-10	1.1
	10-12	0.9
	12-14	1.5
	14-16	1.1
	16-18	3.8

Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
MW-7	18-20	1.0
MW-8	0-2	1.4
	2-4	1.5
	4-6	2.1
	6-8	0.4
	8-10	0.8
	10-12	0.9
	12-14	1.0
	14-16	0.1
	16-18	0.1
MW-2D	0-2	0.2
	2-4	0.2
	4-6	0.3
	6-8	0.3
	8-10	4.8
	10-12	4.3
	12-14	10.0
	14-16	18.0
	16-18	34.3
	18-20	2.6
	20-22	0.5
MW-3D	0-2	1.2
	2-4	2.0
	4-6	3.9
	6-8	4.9
	8-10	0.8
	10-12	0.2
	12-14	0.2
	14-16	6.4
	16-18	9.2
	18-20	10.8
	20-22	28.4
	22-24	7.3
	24-26	6.2
	26-28	0.3
	MW-4D	0-2
2-4		1.5
4-6		NR
6-8		1.0
8-10		1.5

Location I.D.	Depth Interval (feet below ground surface)	PID Measurement (ppm)
MW-4D	10-12	1.8
	12-14	2.8
	14-16	5.0
	16-18	3.5
MW-9D	0-2	0.2
	2-4	0.5
	4-6	0.2
	6-8	1.2
	8-10	17.6
	10-12	23.2
	12-14	25.2
	14-16	28.6
	16-18	31.1
	18-20	2.6
20-22	1.1	
MW-10D	0-2	0.1
	2-4	0.2
	4-6	NR
	6-8	1.8
	8-10	13.4
	10-12	19.7
	12-14	23.4
	14-16	21.8
	16-18	37.0
	18-20	0.9
20-22	0.4	
MW-11D	0-2	0.3
	2-4	20.9
	4-6	0.6
	6-8	70.9
	8-10	602
	10-12	284
	12-14	66.9
	14-16	97.8
	16-18	120.7
	18-20	82.1
	20-22	60.2
22-24	18.5	

Notes:

1. NR = No Recovery
2. Location IDs B-1 through B-10 correspond to Lyon Drilling Co. logs for same locations.
3. Location IDs MW-1 through MW-10 correspond GeoLogic logs for same locations; PID measurements presented on Geo Logic Logs are for open-air PID measurements.
4. Location IDs MW-2D through MW-11D correspond to Lyon Drilling Co. logs for same locations.

**Midler Ave. Brownfields Project  
Test Pit PID Screening Table**

**Table 1**

Test Pit 1			
Depth Interval	(ft)	Reading	(ppm)
0.0-0.2		0.7	
0.2-4.2		0.7	

Test Pit 2			
Depth Interval	(ft)	Reading	(ppm)
0.0-0.5		0.0	
0.5-3.8		0.0	
3.8-5.3		1.3	

Test Pit 3			
Depth Interval	(ft)	Reading	(ppm)
0.0-2.1		0.3	
2.1-8.0		1.3	

Test Pit 4			
Depth Interval	(ft)	Reading	(ppm)
0.0-2.0		0.0	
2.0-3.5		0.0	
3.5-4.2		66.1	

Test Pit 5			
Depth Interval	(ft)	Reading	(ppm)
0.0-0.2		0.0	
0.2-2.0		0.6	
2.0-2.3		0.6	
2.3-4.0		0.6	
4.0-5.2		0.8	
5.2-7.0		1.1	

Test Pit 6			
Depth Interval	(ft)	Reading	(ppm)
0.0-1.0		0.0	
1.0-3.0		0.4	

**Midler Ave. Brownfields Project  
Test Pit PID Screening Table**

**Table 1, cont.**

Test Pit 7	
Depth Interval (ft)	Reading (ppm)
0.0-0.7	0.0
0.7-1.6	0.0
1.6-4.6	1.3
4.6-6.0	0.7

Test Pit 8	
Depth Interval (ft)	Reading (ppm)
0.0-2.7	0.3
2.7-8.0	1.3

Test Pit 9	
Depth Interval (ft)	Reading (ppm)
0.0-0.4	0.0
0.4-4.0	0.6
4.0-4.9	1.0
4.9-6.0	1.0

Test Pit 10/14	
Depth Interval (ft)	Reading (ppm)
0.0-2.0	3.8
2.0-4.0	118.0
4.0-5.0	28.0

Test Pit 11	
Depth Interval (ft)	Reading (ppm)
0.0-0.3	0.0
0.3-3.6	0.4
3.6-3.8	0.3
3.8-6.0	0.3

Test Pit 12	
Depth Interval (ft)	Reading (ppm)
0.0-0.2	0.0
0.2-5.1	1.1
5.1-5.3	1.7
5.3-6.5	1.7

Test Pit 13	
Depth Interval (ft)	Reading (ppm)
0.0-0.3	0.0
0.3-3.5	0.7
3.5-5.3	4.0



**Midler Ave. Brownfields Project  
Test Pit PID Screening Table**

**Table 1**

Test Pit 1	
Depth Interval (ft)	Reading (ppm)
0.0-0.2	0.7
0.2-4.2	0.7

Test Pit 2	
Depth Interval (ft)	Reading (ppm)
0.0-0.5	0.0
0.5-3.8	0.0
3.8-5.3	1.3

Test Pit 3	
Depth Interval (ft)	Reading (ppm)
0.0-2.1	0.3
2.1-8.0	1.3

Test Pit 4	
Depth Interval (ft)	Reading (ppm)
0.0-2.0	0.0
2.0-3.5	0.0
3.5-4.2	66.1

Test Pit 5	
Depth Interval (ft)	Reading (ppm)
0.0-0.2	0.0
0.2-2.0	0.6
2.0-2.3	0.6
2.3-4.0	0.6
4.0-5.2	0.8
5.2-7.0	1.1

Test Pit 6	
Depth Interval (ft)	Reading (ppm)
0.0-1.0	0.0
1.0-3.0	0.4

## **TEST PIT LOGS**

Test Pit No: Pond South

Date: 7-22-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 1300

Contractor: CRAL Contracting, Inc.

Finish: 1600

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 4			Foundry sand and slag, scrap wood, metal, brick misc construction/demolition debris, moist	PID Reading 0 ppm
	4			Black to gray, organic silt/clay, wet Groundwater at 4-ft below grade	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5% Boulders (greater than 10 inches diameter): < 1%
Date	Time	Depth	
	see above		

## Engineers, Inc.

## TEST PIT LOG

(315) 455-2000 Fax: (315) 455-9667

Test Pit No: Area Q (12,000 gal UST)

Date: 7-22-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 0900

Contractor: CRAL Contracting, Inc.

Finish: 1030

Equipment: Mini-Excavator

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 5			Foundry sand and slag, marble stone cobbles, moist. Wet at 5-ft. Groundwater 5-ft below grade	PID Reading - 20 ppm

**Groundwater**

Date	Time	Depth
	see above	

Cobbles (2.5 to 10 inches diameter):  
< 5%

Boulders (greater than 10 inches diameter):  
none

Test Pit No: **Area S (Former ASTs)**

Date: **7-23-04**

Page: **1 of 1**

Project: **Midler Avenue Pre-BCA Investigation**

Client: **Pioneer Midler Avenue, LLC**

Start: **1400**

Contractor: **CRAL Contracting, Inc.**

Finish: **1500**

Equipment: **Kobelco SK160 LC**

Inspector: **J. Holmquist**

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 4			Foundry sand and slag, crushed stone, moist Wet at 4-ft. Groundwater 4-ft below grade	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5% Boulders (greater than 10 inches diameter): none
Date	Time	Depth	
	see above		

Test Pit No: C&D Area T-1

Date: 7-23-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 0730

Contractor: CRAL Contracting, Inc.

Finish: 0900

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 5			Foundry sand and slag, some construction/ demolition debris, moist	PID Reading 275ppm in soil encountered approx 70-ft east of property boundary in trench 3-ft to 5-ft below grade. Black stain soil.
	5.5			White marl, wet	
				Wet at 5-ft. Groundwater 5-ft below grade	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5%  Boulders (greater than 10 inches diameter): none
Date	Time	Depth	
	see above		

## Engineers, Inc.

## TEST PIT LOG

(315) 455-2000 Fax: (315) 455-9667

Test Pit No: C&D Area T-2

Date: 7-23-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 0900

Contractor: CRAL Contracting, Inc.

Finish: 1100

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 5			Foundry sand and slag, some construction/ demolition debris, scrap wood and metal, moist	
	5.5			Wet at 5-ft. Groundwater 5-ft below grade	
	9.0			Marl	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5% Boulders (greater than 10 inches diameter): none
Date	Time	Depth	
	see above		

## Engineers, Inc.

## TEST PIT LOG

(315) 455-2000 Fax: (315) 455-9667

Test Pit No: C&D Area T-3

Date: 7-23-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 1100

Contractor: CRAL Contracting, Inc.

Finish: 1200

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 3			Foundry sand and slag, some construction/ demolition debris, scrap wood and metal, moist, root zone at 3-ft	
	3 - 5			Black to gray, medium sand, some foundry sand moist Wet at 4-ft. Groundwater 4-ft below grade	
	5 - 6			Brown peat, wet	
	6			White marl, wet	

**Groundwater**

Date	Time	Depth
	see above	

Cobbles (2.5 to 10 inches diameter):  
< 5%

Boulders (greater than 10 inches diameter):  
none



**Test Pit No: Midler Ave T-1**

**Date: 7-22-04**

**Page: 1 of 1**

**Project: Midler Avenue Pre-BCA Investigation**

**Client: Pioneer Midler Avenue, LLC**

**Start: 1100**

**Contractor: CRAL Contracting, Inc.**

**Finish: 1130**

**Equipment: Kobelco SK160 LC**

**Inspector: J. Holmquist**

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 5			Foundry sand and slag	
	5 - 10			Black to gray, medium sand	
	10			White marl	
				Water entering above marl at 8-ft below grade	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5% Boulders (greater than 10 inches diameter): none
Date	Time	Depth	
	see above		

Test Pit No: **Midler Ave T-2**

Date: **7-22-04**

Page: **1 of 1**

Project: **Midler Avenue Pre-BCA Investigation**

Client: **Pioneer Midler Avenue, LLC**

Start: **1130**

Contractor: **CRAL Contracting, Inc.**

Finish: **1200**

Equipment: **Kobelco SK160 LC**

Inspector: **J. Holmquist**

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 3			Brown, top soil and rock cobbles, dry	
	3 - 6			Black to gray, medium sand, foundry sand and slag, some rock cobbles Groundwater at 6-ft below grade	

Groundwater			Cobbles (2.5 to 10 inches diameter): < 5% Boulders (greater than 10 inches diameter): none
Date	Time	Depth	
	see above		

Test Pit No: Midler Ave T-3

Date: 7-22-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 1200

Contractor: CRAL Contracting, Inc.

Finish: 1215

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 3			Brown to black, medium sand, foundry sand and slag, moist	
	3			White marl Groundwater at 3-ft below grade	

Groundwater		
Date	Time	Depth
	see above	

Cobbles (2.5 to 10 inches diameter):  
< 5%  
Boulders (greater than 10 inches diameter):  
none

## Engineers, Inc.

## TEST PIT LOG

(315) 455-2000 Fax: (315) 455-9667

Test Pit No: Pond North

Date: 7-22-04

Page: 1 of 1

Project: Midler Avenue Pre-BCA Investigation

Client: Pioneer Midler Avenue, LLC

Start: 1300

Contractor: CRAL Contracting, Inc.

Finish: 1600

Equipment: Kobelco SK160 LC

Inspector: J. Holmquist

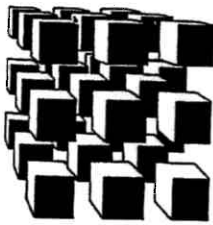
Scale in Feet	Strata Depth Change	Sample No.	Sample Depth Range	Description of Materials	Remarks
	0 - 3.5			Brown to black, sand and silt, some misc construction/demolition debris, moist	
	3.5 - 4.5			White marl, wet, groundwater at 3-ft	
	4.5 - 5.5			Brown peat, wet	

**Groundwater**

Date	Time	Depth
	see above	

Cobbles (2.5 to 10 inches diameter):  
< 5%

Boulders (greater than 10 inches diameter):  
< 1%



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## TEST PIT LOG

<b>Project:</b> Lowe's Home Center on Midler Avenue, Syracuse, NY		<b>Report No.:</b> 25667B-01-1204
<b>Client:</b> Pioneer Midler Avenue, LLC		<b>Location of Test Pit:</b> See Boring Location Sketch
		<b>Ground Elevation:</b> 423.1'
<b>Test Pit No.</b> TP-1	Sheet 1 of 1	<b>Date:</b> Start: 12/07/04 Finish: 12/07/04
		<b>Representative:</b> A. Linstruth/J. Wight

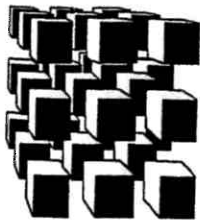
### Ground Water Observations

Date: 12/07/04      Time: 11:20 am      Depth: 4.1'

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL		
		FROM (FEET)	TO (FEET)			f - FINE	and some	35-50%
0				0.2		m - MEDIUM	little	20-35%
				4.2		c - COARSE	trace	10-20%
								0-10%
5						Crushed Stone		
					Black Foundry SAND, CONCRETE, SLAG, MASONRY, Cold Rolled STEEL, little ROOTS (moist to saturated)			
					~ Unprepared Miscellaneous Fill ~			
					Beige MARL (saturated)			
					Bottom of Test Pit @ 5.7'			
10								

**REMARKS:**

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.
2. Bottom of Building Foundation noted at 2.0 feet below grade.
3. Concrete slab at 3.2' below grade, 2-1/2 feet from building.



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## TEST PIT LOG

Project: Lowe's Home Center on Midler Avenue, Syracuse, NY		Report No.: 25667B-01-1204
Client: Pioneer Midler Avenue, LLC		Location of Test Pit: See Boring Location Sketch
Test Pit No. TP-2		Ground Elevation: 424.1'
Sheet 1 of 1		Date: Start: 12/03/04 Finish: 12/03/04
Representative: D. Hurlbut/M. Cheney		

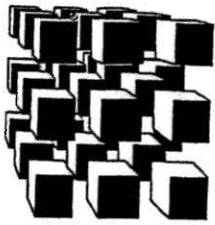
### Ground Water Observations

Date: 12/03/04      Time: 9:30 am      Depth: 4.3' (seepage)

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL		
		FROM (FEET)	TO (FEET)			f - FINE	m - MEDIUM	c - COARSE
0				0.4		35-50%	and	some
				3.8		20-35%		little
				5.3		10-20%		trace
5						0-10%		
10								

**REMARKS:**

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.



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## TEST PIT LOG

Project: Retail Development, Midler Avenue, Syracuse, NY		Report No.: 25668B-01-1204
Client: Pioneer Companies		Location of Test Pit: See Boring Location Sketch
Test Pit No. TP-3		Ground Elevation: 421.2'
Sheet 1 of 1	Date	Start: 12/07/04 Finish: 12/07/04
		Representative: A. Linstruth/J. Walshvelo

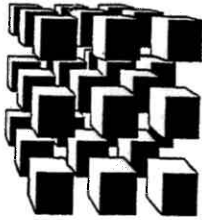
### Ground Water Observations

Date: 12/07/04  
 Time: 9:05 am  
 Depth: 3.5'

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL	
		FROM (FEET)	TO (FEET)			f - FINE and 35-50%	m - MEDIUM some 20-35%
0				0.3	Topsoil (moist)		
				2.1	Black Foundry SAND, some cmf GRAVEL, trace BRICK, CONCRETE (moist) (slab 2' x 4') ~ Unprepared Miscellaneous Fill ~		
				4.2	Grey cmf GRAVEL, some cmf SAND (moist to saturated)		
				4.5	Black PEAT (wet)		
5					Beige MARL (saturated)		
					Bottom of Test Pit @ 5.5'		
10							

### REMARKS:

- Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.



# CME Associates, Inc.

P.O. Box 554  
 Central Square, New York 13036  
 (315) 668-3868  
 (315) 676-3150 (Fax)

www.cmeassociates.com

## TEST PIT LOG

Project: Retail Development, Midler Avenue, Syracuse, NY		Report No.:	25668B-01-1204
Client: Pioneer Companies		Location of Test Pit:	See Boring Location Sketch
Test Pit No. TP-4		Ground Elevation:	423.4'
Sheet 1 of 1		Date	Start: 12/03/04 Finish: 12/03/04
		Representative:	J. Wight/M. Cheney

### Ground Water Observations

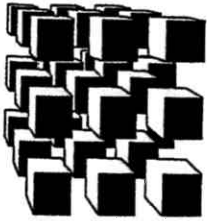
Date: 12/03/04  
 Time: 9:30 am  
 Depth: 4.2' weeping

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL			
		FROM (FEET)	TO (FEET)			f - FINE	and some	35-50%	20-35%
0				0.2		m - MEDIUM <td>little <td>10-20% </td></td>	little <td>10-20% </td>	10-20%	
				4.2		Asphalt Pavement	c - COARSE <td>trace <td>0-10%</td> </td>	trace <td>0-10%</td>	0-10%
						Dark Brown cmf SAND, some SILT  ~ Unprepared Miscellaneous Fill ~			
5					Black PEAT and Beige MARL (moist to wet)				
					*Trace fuel oil noted.				
					Bottom of Test Pit @ 5.5'				
10									

### REMARKS:

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.
2. Surface Condition: Paved/Gravel.
3. Test Pit location previously excavated for tank removal.
4. Could not expose existing building piles due to proximity to water main.
5. C&S collected sample for environmental purposes.





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## TEST PIT LOG

<b>Project:</b> Lowe's Home Center on Midler Avenue, Syracuse, NY		<b>Report No.:</b> 25667B-01-1204
<b>Client:</b> Pioneer Midler Avenue, LLC		<b>Location of Test Pit:</b> See Boring Location Sketch
		<b>Ground Elevation:</b> 418.9'
<b>Test Pit No.</b> TP-5	Sheet 1 of 1	<b>Date:</b> Start: 12/07/04 Finish: 12/07/04
		<b>Representative:</b> A. Linstruth/J. Wight

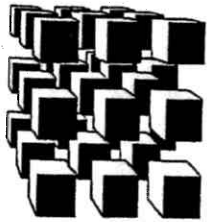
### Ground Water Observations

Date	Time	Depth
12/03/04	10:30 am	4.1'

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL		
		FROM (FEET)	TO (FEET)			f - FINE	m - MEDIUM	c - COARSE
0				0.2	Topsoil (moist)			35-50%
				2.0	BRICK, WOOD, cmf SAND, some cmf GRAVEL, little ROOTS (moist) ~ Unprepared Miscellaneous Fill ~		some	20-35%
				2.3	Crushed BRICK and cmf SAND (moist) ~ Unprepared Miscellaneous Fill ~		little	10-20%
				4.0	Grey mf SAND (moist) ~ Unprepared Fill ~		trace	0-10%
5				5.2	Black Foundry SAND (wet to saturated) ~ Unprepared Fill ~			
					Black PEAT (wet)			
					Bottom of Test Pit @ 7.0'			
10								

### REMARKS:

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.



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## TEST PIT LOG

Project: Lowe's Home Center on Midler Avenue, Syracuse, NY		Report No.: 25667B-01-1204
Client: Pioneer Midler Avenue, LLC		Location of Test Pit: See Boring Location Sketch
		Ground Elevation: 420.7'
Test Pit No. TP-6	Sheet 1 of 1	Date Start: 12/03/04 Finish: 12/03/04
		Representative: D. Hurlbut/M. Cheney

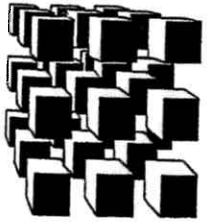
### Ground Water Observations

Date: 12/03/04      Time: 10:30 am      Depth: 1.8' (seepage)

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL	
		FROM (FEET)	TO (FEET)			f - FINE and	35-50%
0				0.4		m - MEDIUM some	20-35%
						c - COARSE little	10-20%
						trace	0-10%
					Crushed GRAVEL (moist)		
					Brown to Rusty Brown SLAG, CINDERS, Black Foundry SAND, Slabs of BRICK and MORTAR, trace CONCRETE, METAL, BRICK (moist)		
					~ Unprepared Miscellaneous Fill ~		
					Bottom of Test Pit @ 3.0'		
5							
10							

**REMARKS:**

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.
2. Test Pit excavated next to building. No footing found. Building constructed on concrete slab from 1.2 to 1.9 feet below grade.



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## TEST PIT LOG

Project: Retail Development, Midler Avenue, Syracuse, NY		Report No.: 25668B-01-1204
Client: Pioneer Companies		Location of Test Pit: See Boring Location Sketch
Test Pit No. TP-7		Ground Elevation: 420.7'
Sheet 1 of 1		Date Start: 12/03/04 Finish: 12/03/04
		Representative: J. Wight/M. Cheney

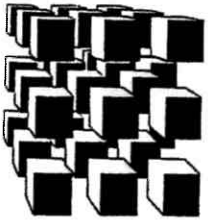
### Ground Water Observations

Date: 12/03/04  
 Time:  
 Depth: 4.8' weeping

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL		
		FROM (FEET)	TO (FEET)			f - FINE	m - MEDIUM	c - COARSE
0				0.7		and 35-50%	some 20-35%	little 10-20%
				1.6		trace 0-10%		
				4.6				
5						Dark Brown PEAT with large ROOTS and TREES (wet)		
10					Bottom of Test Pit @ 6.0'			

### REMARKS:

1. Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.
2. Surface Condition: Mowed Lawn.



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## TEST PIT LOG

<b>Project:</b> Retail Development, Midler Avenue, Syracuse, NY		<b>Report No.:</b> 25668B-01-1204
<b>Client:</b> Pioneer Companies		<b>Location of Test Pit:</b> See Boring Location Sketch
		<b>Ground Elevation:</b> 423.5'
<b>Test Pit No.</b> TP-8	Sheet 1 of 1	<b>Date</b> <b>Start:</b> 12/07/04 <b>Finish:</b> 12/07/04
		<b>Representative:</b> A. Linstruth/J. Wight

### Ground Water Observations

<b>Date</b>	<b>Time</b>	<b>Depth</b>
12/07/04	8:42 am	6.3

DEPTH (Feet)	SAMPLE NUMBER	DEPTH OF SAMPLE		DEPTH OF CHANGE (FEET)	NOTES OR PIT PROFILE	CLASSIFICATION OF MATERIAL		
		FROM (FEET)	TO (FEET)			f - FINE m - MEDIUM c - COARSE	and some little trace	35-50% 20-35% 10-20% 0-10%
0				0.3		Topsoil (moist)		
				2.7		Grey SILT, little mf GRAVEL, little cmf SAND, trace ROOTS (moist)		
						Black CINDERS, SLAG, BRICK, WOOD, Foundry SAND (moist to saturated)		
						~ Unprepared Miscellaneous Fill ~		
5								
10						Bottom of Test Pit @ 8.0'		

**REMARKS:**

- Test Pit excavated with a Caterpillar Model 416D TLB four-wheel drive backhoe equipped with a 24" general purpose bucket.

## **SOIL VAPOR SAMPLING FIELD LOGS**

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: SV-22

### Line Purge / Tracer Gas

Length of Tubing: 26 inch Diameter of Tubing: .25 inches  
Purge Volume: 378  
24cc  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 7x  
Total Purged: 1,722 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 26 inch  
Canister #: 244157 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 46  
Start Time: 7:22 Vacuum Amount Start: 30  
End Time: 7:28 Vacuum Amount End: -1

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny  
East

2.5 PFD  
leading

Sampled by:  
Company:

m. palmer / k. kolbit / w. doucett  
Signature: m. palmer  
Centek Date: 4/20/06

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/19/06  
Sample ID: SU-23

### Line Purge / Tracer Gas

Length of Tubing: 20 inch      Diameter of Tubing: .25 inches  
Purge Volume: 324  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 3  
Total Purged: 972 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes      No  
Pre Sample Tracer Gas: Present      Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 20.2 feet inch  
Canister #: 412      Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 48  
Start Time: 3:05      Vacuum Amount Start: 30  
End Time: 7:07      Vacuum Amount End: -3

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny  
65°C

PID = 20.1

Sampled by:  
Company:

M. Palmer / K. Kahl / W. Pardo      Signature: 4/20/06  
Centek      Date: M. Palmer

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: SV-24

### Line Purge / Tracer Gas

Length of Tubing: 15 Diameter of Tubing: .25 inches  
Purge Volume: 216  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 3x  
Total Purged: 648 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 17 feet 15  
Canister #: 411 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 306  
Start Time: 2:53 Vacuum Amount Start: 30  
End Time: 4:08 Vacuum Amount End: -2

### Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny PEO - 0  
East  
72

Sampled by: M. Palmer, K. Kelly, W. Randall Signature: M. Palmer  
Company: Centek Date: 4/20/06



# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/10  
Sample ID: SV-25

### Line Purge / Tracer Gas

Length of Tubing: 41.2 inch Diameter of Tubing: .25 inches  
Purge Volume: 1.8  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 3X  
Total Purged: 18.6 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 41.2 feet inch  
Canister #: 318 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 22  
Start Time: 11:28 Vacuum Amount Start: 30  
End Time: 3:40 Vacuum Amount End: 7

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny 65°C PID - 0  
East wind 25 miles

Sampled by: M. Palmer / K. Kohli / W. Randall Signature: M. Palmer  
Company: Centek Date: 4/20/10

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: SV-26

### Line Purge / Tracer Gas

Length of Tubing: 41.5 Diameter of Tubing: .25 inches  
Purge Volume: 618  
Purge Flow Rate: .2 cc/ml  
Volumes Purged: 1854 cc  
Total Purged: 1854 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes  No   
Pre Sample Tracer Gas: Present  Not Present  (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 41.5 feet inch  
Canister #: 223 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 247  
Start Time: 12:00 pm Vacuum Amount Start: 30 psi  
End Time: 2:00 pm Vacuum Amount End: -3

Notes:

Weather: Sunny PFD - 0  
Wind Direction: 65°C  
Temperature: East 2-5 miles  
Observations:

Sampled by: M. Palmer / K. Kohill / K. Rainell Signature: M. Palmer  
Company: Centek Date: 4/20/06

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: SU-27

### Line Purge / Tracer Gas

Length of Tubing: 4.5 Diameter of Tubing: .25 inches  
Purge Volume: 118  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 3  
Total Purged: 1854 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 42 feet  
Canister #: 199 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 307  
Start Time: 12:21 Vacuum Amount Start: 29  
End Time: 1:26 Vacuum Amount End: -2

#### Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny 65°C PID -2.6  
East 2-5

Sampled by:  
Company:

M. Blum/K. K. Hill/Reindel Signature: M. Blum  
Centek Labs Date: 4/20/06

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/27/06  
Sample ID: SU-28

### Line Purge / Tracer Gas

Length of Tubing: 42.5 Diameter of Tubing: .25 inches  
Purge Volume: 620  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 34  
Total Purged: 1860 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m3)  
Sampling Depth: 42.5 feet in G  
Canister #: 417 Canister Type & Size: 1 liter Entech Summa Canister  
Regulator #: 183  
Start Time: 2:05 pm Vacuum Amount Start: 70  
End Time: 6:06 pm Vacuum Amount End: -1

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny 65  
E 2-5 miles

Sampled by:  
Company:

M. Pal  
Centek

Signature:

Date:

M. Pal  
4/27/06

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: SU-29

### Line Purge / Tracer Gas

Length of Tubing: 23 inches  
Diameter of Tubing: .25 inches  
Purge Volume: 342  
Purge Flow Rate: .2 cc/m  
Volumes Purged: 3 x  
Total Purged: 1026 cc  
Tracer Gas: Helium  
Tracer Gas Cal. (circle): Yes No  
Pre Sample Tracer Gas: Present Not Present (circle)

Notes:

### Sampling

Method: TO-15 (1 ug/m<sup>3</sup>)  
Sampling Depth: 17' feet  
Canister #: 221  
Regulator #: 274  
Canister Type & Size: 1 liter Entech Summa Canister  
Vaccum Amount Start: 30  
Vaccum Amount End: -1  
Start Time: 1:41  
End Time: 5:42

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny 65  
Wind 2-5 miles

Sampled by:  
Company:

Michael K. Kahl / W. Randall  
Centek

Signature:  
Date:

[Signature]  
4/20/06

# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/10  
Sample ID: SU-30

### Line Purge / Tracer Gas

Length of Tubing 25.5 Diameter of Tubing .25 inches  
Purge Volume 370  
Purge Flow Rate .2 cc/m  
Volumes Purged 3  
Total Purged 1110 cc  
Tracer Gas Helium  
Tracer Gas Cal. (circle) Yes No  
Pre Sample Tracer Gas Present Not Present (circle)

Notes:

### Sampling

Method TO-15 (1 ug/m3)  
Sampling Depth 25.5 feet  
Canister # \_\_\_\_\_ Canister Type & Size 1 liter Entech Summa Canister  
Regulator # \_\_\_\_\_  
Start Time 2:26 pm Vacuum Amount Start 3.0  
End Time 6:30 Vacuum Amount End -3

Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny 65°C  
East 2-5 miles  
20.7 PFD

Sampled by:  
Company:

M. Hill / K. Cahill / W. Lundell Signature: M. Hill  
Centek Date: 4/20/10



# Centek Laboratories, LLC

143 Midler Park Drive Syracuse, NY 13026 (315) 431-9730

## Soil Gas Field Sheet

Client: C&S  
Project: Midler City Industrial Park  
Site: \_\_\_\_\_  
Date: 4/20/06  
Sample ID: Ambient

### Line Purge / Tracer Gas

Length of Tubing \_\_\_\_\_ Diameter of Tubing .25 inches  
Purge Volume \_\_\_\_\_  
Purge Flow Rate .2 cc/m  
Volumes Purged \_\_\_\_\_  
Total Purged \_\_\_\_\_ cc  
Tracer Gas Helium  Yes  No  
Tracer Gas Cal. (circle) \_\_\_\_\_  
Pre Sample Tracer Gas Present  Not Present

Notes: Ambient sample

### Sampling

Method TO-15 (1 ug/m3)  
Sampling Depth \_\_\_\_\_ feet  
Canister # 220 Canister Type & Size 1 liter Entech Summa Canister  
Regulator # 339  
Start Time 11:39 Vacuum Amount Start 301  
End Time 3:44 Vacuum Amount End -1

#### Notes:

Weather  
Wind Direction  
Temperature  
Observations

Sunny  
Bas

Sampled by: M. Pollock / K. Kallil / J. B. Randall Signature: M. Pollock  
Company: Centek Date: 4/20/06