

Appendix G

Boring Logs

- **G-1 Site 137 North**
- **G-2 Site 143**








Boring logs for the remaining sample locations in Site 137 North and Site 143 collected via soil core are included in this package. Logs were not generated for grab samples collected during excavation activities, typically designated by “PB” or “SW” in the Location ID.

Appendix G-1

Site 137 North

Client: PPG Industries	BORING ID: 137-B1	
Site: Site 137		
Start Date: 12/5/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-610943.4 Y-682838.3	Depth of Boring: 32.00
End Date: 12/7/2006	Elevation: 15.53	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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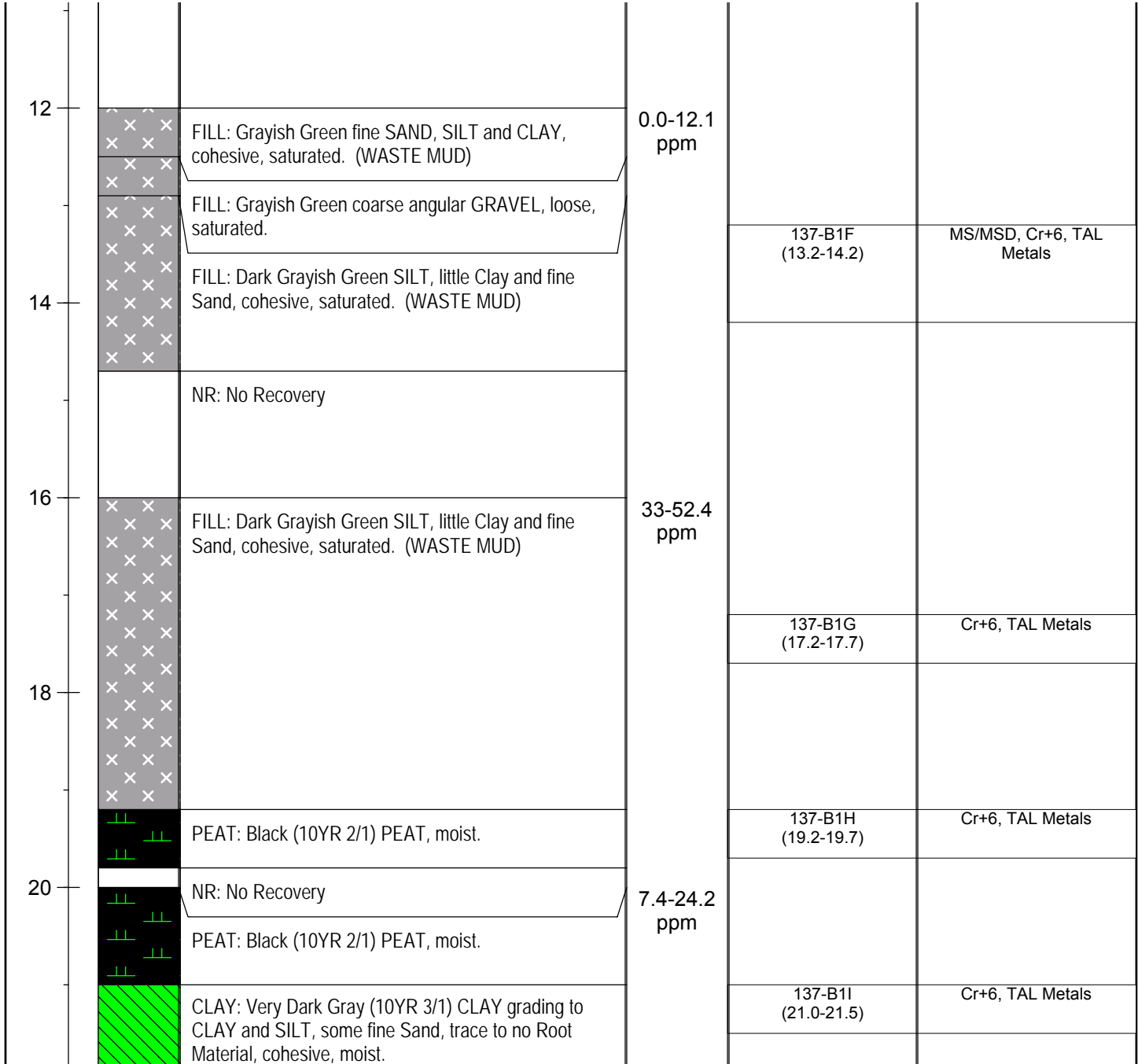
0		ASPHALT: Street level ASPHALT			
		FILL: Dark Brown (10YR 3/3) fine to coarse GRAVEL, little fine Sand and Silt, trace Clay, loose, slightly moist.		137-B1A(0.4-0.6)	Cr+6, TAL Metals
2		FILL: Reddish Gray (5G 5/2) fine SAND and SILT, little medium to coarse Sand, slightly cohesive, slightly moist. (WASTE MUD)		137-B1B (2.5-3.0)	MS/MSD, Cr+6, TAL Metals
4		FILL: Reddish Gray (5G 5/2) fine SAND and SILT, little medium to coarse Sand, slightly cohesive, saturated. (WASTE MUD)	0.0 ppm	137-B1C (4.5-5.0)	Cr+6, TAL Metals
		FILL: Very Dark Gray (10YR 3/1) medium to coarse GRAVEL (ash and cinders), loose, saturated.		137-B1D (5.2-5.7)	Cr+6, TAL Metals
6		FILL: Light Grayish Green SILT and CLAY, cohesive, moist. (WASTE MUD)			
8		FILL: Dark Grayish Green, fine SAND, SILT and CLAY, coarse angular Gravel from 10.0-10.3 ft bgs, loose, saturated. (WASTE MUD)	0.5-2.5 ppm	137-B1E (9.2-9.7)	Cr+6, TAL Metals
10					
		NR: No Recovery			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B1	
Start Date: 12/5/2006	Project: Site Investigation	Page: 2 of 3
End Date: 12/7/2006	Coordinates: X-610943.4 Y-682838.3	Depth of Boring: 32.00
	Elevation: 15.53	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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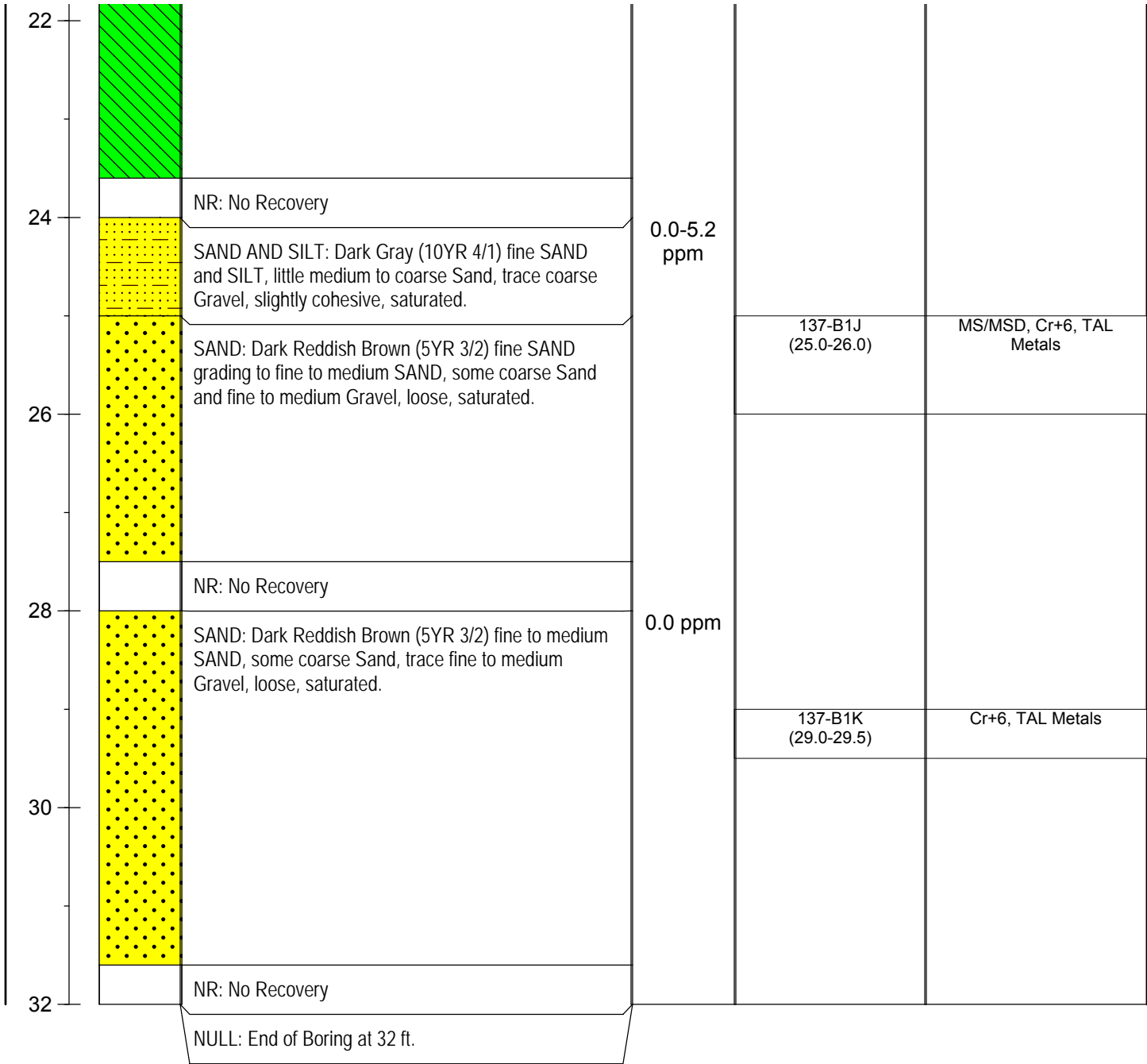


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Client: PPG Industries	BORING ID: 137-B1	
Site: Site 137		
Start Date: 12/5/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-610943.4 Y-682838.3	Depth of Boring: 32.00
End Date: 12/7/2006	Elevation: 15.53	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Client: PPG Industries		BORING ID: 137-B2
Site: Site 137		
Start Date: 12/5/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-610981.3 Y-682909.5	Depth of Boring: 32.00
End Date: 12/7/2006	Elevation: 15.66	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		ASPHALT: Street level ASPHALT			
		FILL: Dark Brown (10YR 3/3) fine to coarse GRAVEL, little fine to coarse Sand and Silt, loose, slightly moist.		137-B2A(0.4-0.6)	Cr+6, TAL Metals
2		FILL: Yellowish Brown (10YR 5/8) and Very Bright Green fine SAND and SILT, little coarse Slag and Ash, dense, loose, dry.		137-B2B (2.0-2.5)	Cr+6, TAL Metals
4		FILL: Black (10YR 2/1) fine to medium GRAVEL (ash and cinders), slag, loose, moist.	0.0 ppm	137-B2C (3.5-4.0)	Cr+6, TAL Metals
6		FILL: Bright Green SILT, little Clay, trace fine Sand, cohesive, dense, moist. (WASTE MUD)		137-B2D (4.5-5.0)	Cr+6, TAL Metals
8		FILL: Brownish Green fine to coarse GRAVEL, some sfine Sand and Silt, loose, saturated.	0.0 ppm	137-B2E (8.5-9.0)	Cr+6, TAL Metals
10		FILL: SILT, little fine Sand, trace fine to medium Gravel (translucent crystal-like Light Green material at 3.5 ft bgs), cohesive, moist.	12.0 ppm	137-B2F (9.0-9.5)	Cr+6, TAL Metals
			518.0 ppm		

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Client: PPG Industries	BORING ID: 137-B2	
Site: Site 137		
Start Date: 12/5/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-610981.3 Y-682909.5	Depth of Boring: 32.00
End Date: 12/7/2006	Elevation: 15.66	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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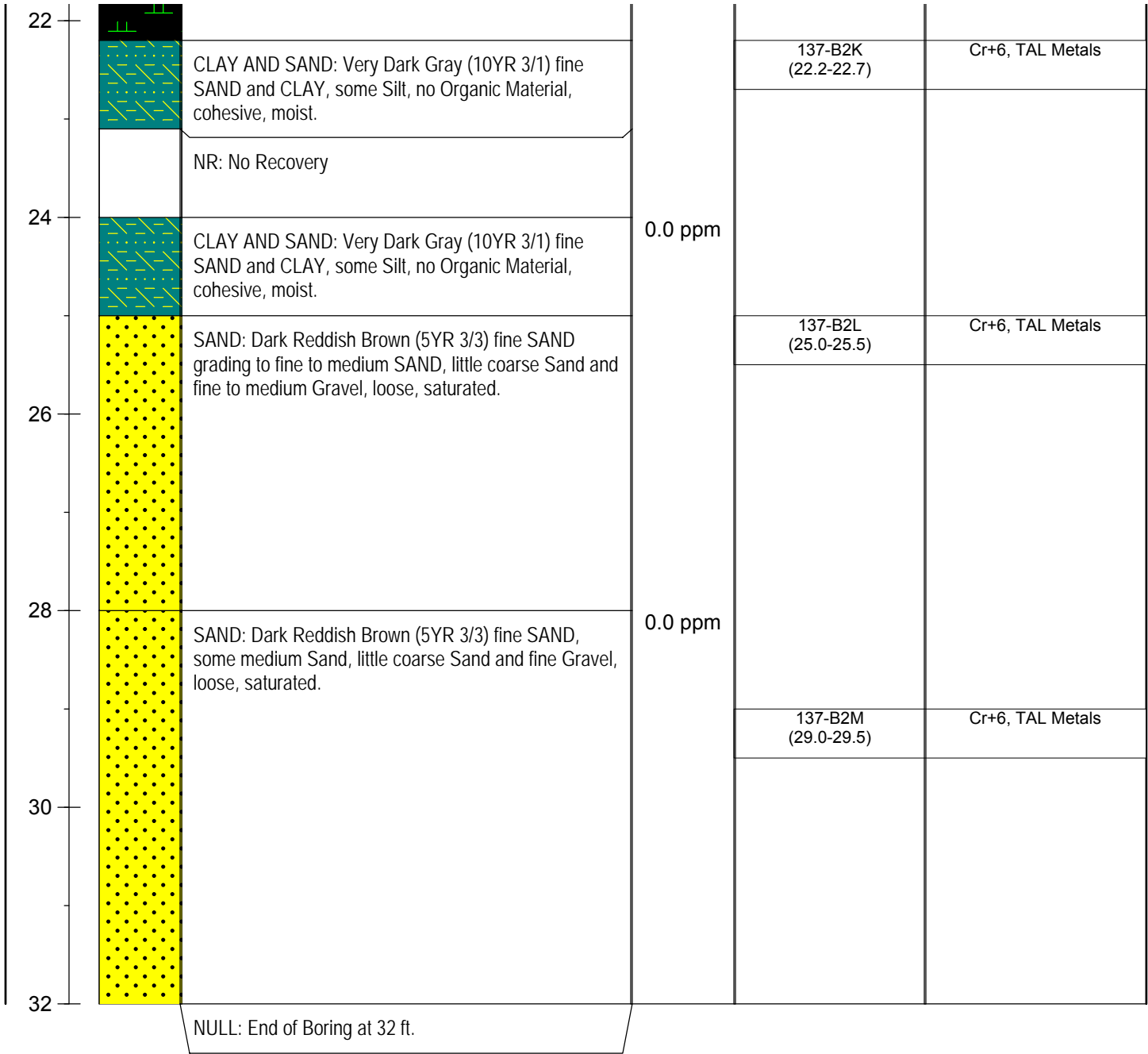
			106.0 ppm		
12		NR: No Recovery	0.0 ppm		
		FILL: Dark Grayish Green SILT, little Clay, cohesive, saturated. (WASTE MUD)		137-B2G (13.0-13.5)	Cr+6, TAL Metals
14					
16		NR: No Recovery	0.0 ppm		
		FILL: Dark Grayish Green SILT, little Clay, cohesive, saturated. (WASTE MUD)		137-B2H (17.0-17.5)	Cr+6, TAL Metals
18		PEAT: Black (10YR 2/1) PEAT, moist.		137-B2I (17.6-18.1)	Cr+6, TAL Metals
		PEAT: Very Dark Gray (10YR 3/1) CLAY, little Silt, decreasing Root Material (trace to none), cohesive, moist.			
20		NR: No Recovery	2.3 ppm		
		PEAT: Very Dark Gray (10YR 3/1) CLAY, little Silt, little Root Material/Peat, cohesive, moist.		137-B2J (20.0-20.5)	Cr+6, TAL Metals

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Site: Site 137		
Start Date: 12/5/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-610981.3 Y-682909.5	Depth of Boring: 32.00
End Date: 12/7/2006	Elevation: 15.66	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Client: PPG Industries	BORING ID: 137-B3	
Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 1 of 4
	Coordinates: X-611004.1 Y-682794.8	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 14.94	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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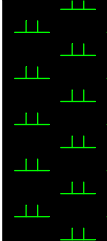
0		CONCRETE: Concrete floor.	0.0 ppm		
		FILL: Olive Gray (5Y 4/2) SILT, little Clay, 5% COPR, dry. No odor. (WASTE MUD)	0.0 ppm	137-B3A (0.5-1.0)	Cr+6, TAL Metals
2			0.0 ppm		
		FILL: Olive Gray (5Y 4/2) SILTY CLAY, trace Gravel, Lime Green staining, 5% COPR, dry. No odor. (WASTE MUD)	9.1 ppm		
4			0.0 ppm	137-B3B (4.0-4.5)	Cr+6, TAL Metals
		FILL: Dark Gray (5Y 4/1) GRAVEL, some Silt, wet. No odor.			
6		FILL: Olive Gray (5Y 4/2) CLAY, little Silt, Lime-green staining, 5% COPR, firm, moist. No odor. (WASTE MUD)			
		FILL: Dark Gray (5Y 4/1) medium coarse GRAVEL, little Silt, 5% COPR, wet. No odor.			
8		NR: No Recovery			
		FILL: Dark Gray (5Y 4/1) medium coarse GRAVEL, little Silt, 5% COPR, wet. No odor.	3.7 ppm	137-B3C (8.0-8.5)	Cr+6, TAL Metals
		FILL: Olive Gray (5Y 4/2) SILTY CLAY, little very fine Sand, interbedded Gray Gravel at 7.4 ft bgs, Lime-green staining, 50% COPR, wet. Yellow water. Odor. (WASTE MUD)	4.3 ppm		
10			1.7 ppm		

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Client: PPG Industries	BORING ID: 137-B3	
Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 2 of 4
	Coordinates: X-611004.1 Y-682794.8	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 14.94	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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		NR: No Recovery			
12		FILL: Olive Gray (5Y 4/2) SILTY CLAY, little very fine Sand, interbedded Gray Gravel at 7.4 ft bgs, Lime-green staining, 50% COPR, wet. Yellow water. Odor. (WASTE MUD)	0.0 ppm	137-B3D (12.0-12.5)	Cr+6, TAL Metals
			0.0 ppm		
14			0.0 ppm		
			6.9 ppm		
16			6.9 ppm		
			10.5 ppm		
18			15.0 ppm		
		PEAT: Reddish Black (10R 2.5/1) PEAT (Meadow Mat), Organics, firm, moist. Sulfur odor.	16.5 ppm	137-B3E (19.0-19.5)	Cr+6, TAL Metals
20			6.8 ppm		

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Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 3 of 4
	Coordinates: X-611004.1 Y-682794.8	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 14.94	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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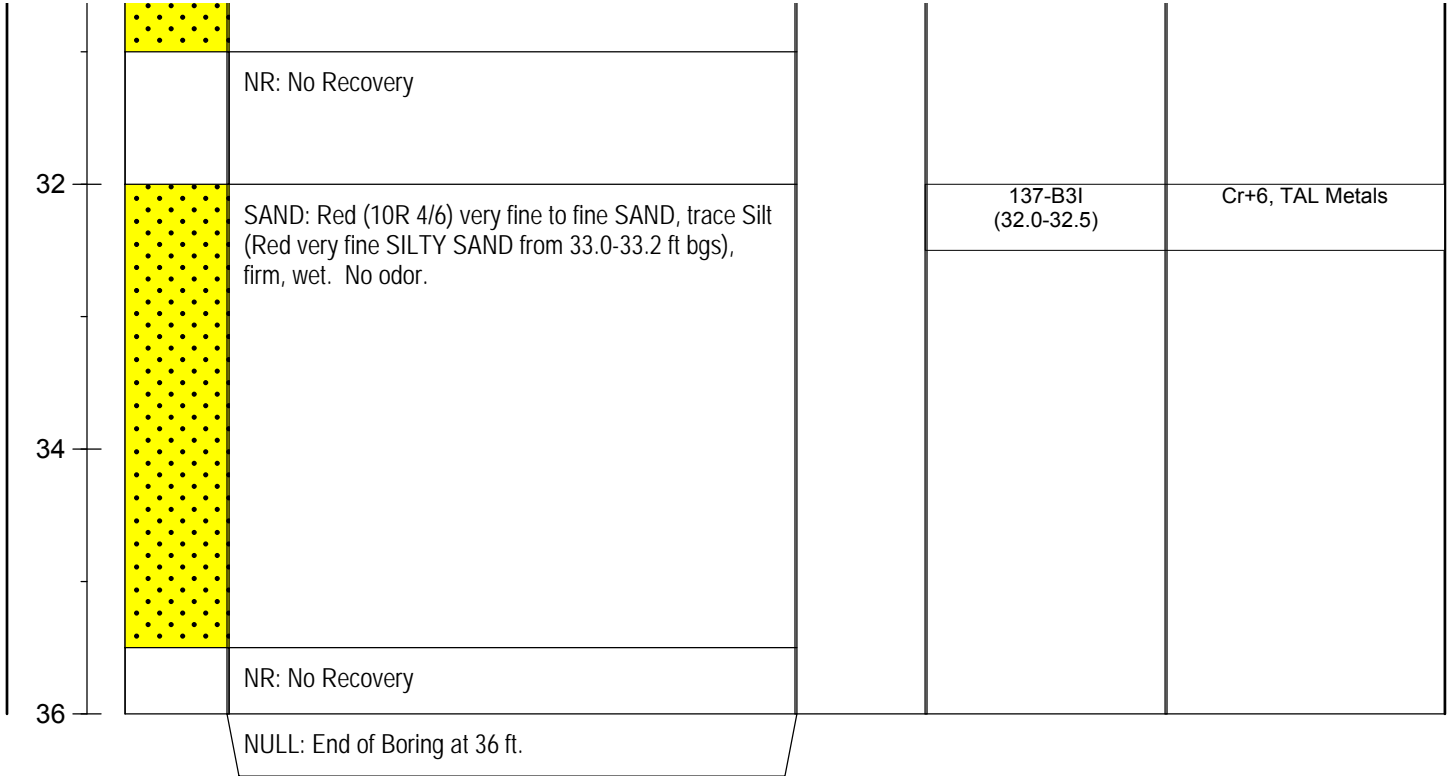
22			19.0 ppm	137-B3F (21.0-21.5)	Cr+6, TAL Metals
			50.1 ppm		
			40.0 ppm		
24			6.7 ppm		
		CLAY: Dark Gray (Gley N4/0) CLAY, trace semi-round Gravel, moist. No odor.	4.0 ppm	137-B3G (24.5-25.0)	Cr+6, TAL Metals
26		SAND: Weak Red (10R 4/2) coarse SAND, some small round Gravel and Silt, wet. No odor.	3.5 ppm		
		NR: No Recovery			
28		SILTY SAND: Red (10R 4/6) very fine SILTY SAND, loose, wet. No odor.	0.0 ppm	137-B3H (28.0-28.5)	Cr+6, TAL Metals
			7.8 ppm		
30		SAND: Red (10R 4/6) very fine to fine SAND, trace Silt, firm, wet. No odor.			

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Client: PPG Industries	BORING ID: 137-B3	
Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 4 of 4
	Coordinates: X-611004.1 Y-682794.8	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 14.94	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B4	
Start Date: 12/6/2006	Project: Site Investigation	Page: 1 of 3
End Date: 12/8/2006	Coordinates: X-610954.8 Y-682695.0	Depth of Boring: 32.00
	Elevation: 14.91	Geologist: P. Kelly, R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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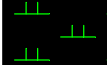




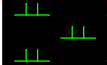


0	[X-pattern]	FILL: Coarse GRAVEL with plastic Vapor Barrier at 0.9 ft bgs.			
0.9		FILL: Dark Brown SILT with some Clay, little fine to medium Gravel, little Glass peices, moist.	0.0 ppm	137-B4A (0.9-1.4)	Cr+6, TAL Metals
1.4	[X-pattern]	FILL: Gray-green SILT, some fine Sand and fine Gravel, wet.	0.0 ppm		
2.0		FILL: Dark Grayish-Green Waste Mud, SILT, little Clay, saturated, cohesive.	0.0 ppm	137-B4B(2.0-2.5) 137-B4BD(2.0-2.5)	Cr+6, TAL Metals
4.0	[X-pattern]	FILL: Dark Grayish-Green Waste Mud, SILT, little Clay, saturated, cohesive.	0.0 ppm		
6.0		FILL: No Recovery	0.0-0.2 ppm	137-B4C (6.0-6.5)	Cr+6, TAL Metals
8.0	[X-pattern]	FILL: Dark Grayish-Green Waste Mud, SILT, little Clay, saturated, cohesive.	0.0-0.2 ppm		
8.5		FILL: Dark Yellowish Brown (10YR 3/6) to Black (10YR 2/1) fine to coarse GRAVEL, ASH, and CINDERS, some fine Sand and Silt, trace waste mud (Grayish-Green fine Sand and Silt), saturated, loose.	0.0-0.2 ppm	137-B4D (8.5-9.0)	Cr+6, TAL Metals
10.0	[X-pattern]				

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Client: PPG Industries	BORING ID: 137-B4	
Site: Site 137		
Start Date: 12/6/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-610954.8 Y-682695.0	Depth of Boring: 32.00
End Date: 12/8/2006	Elevation: 14.91	Geologist: P. Kelly, R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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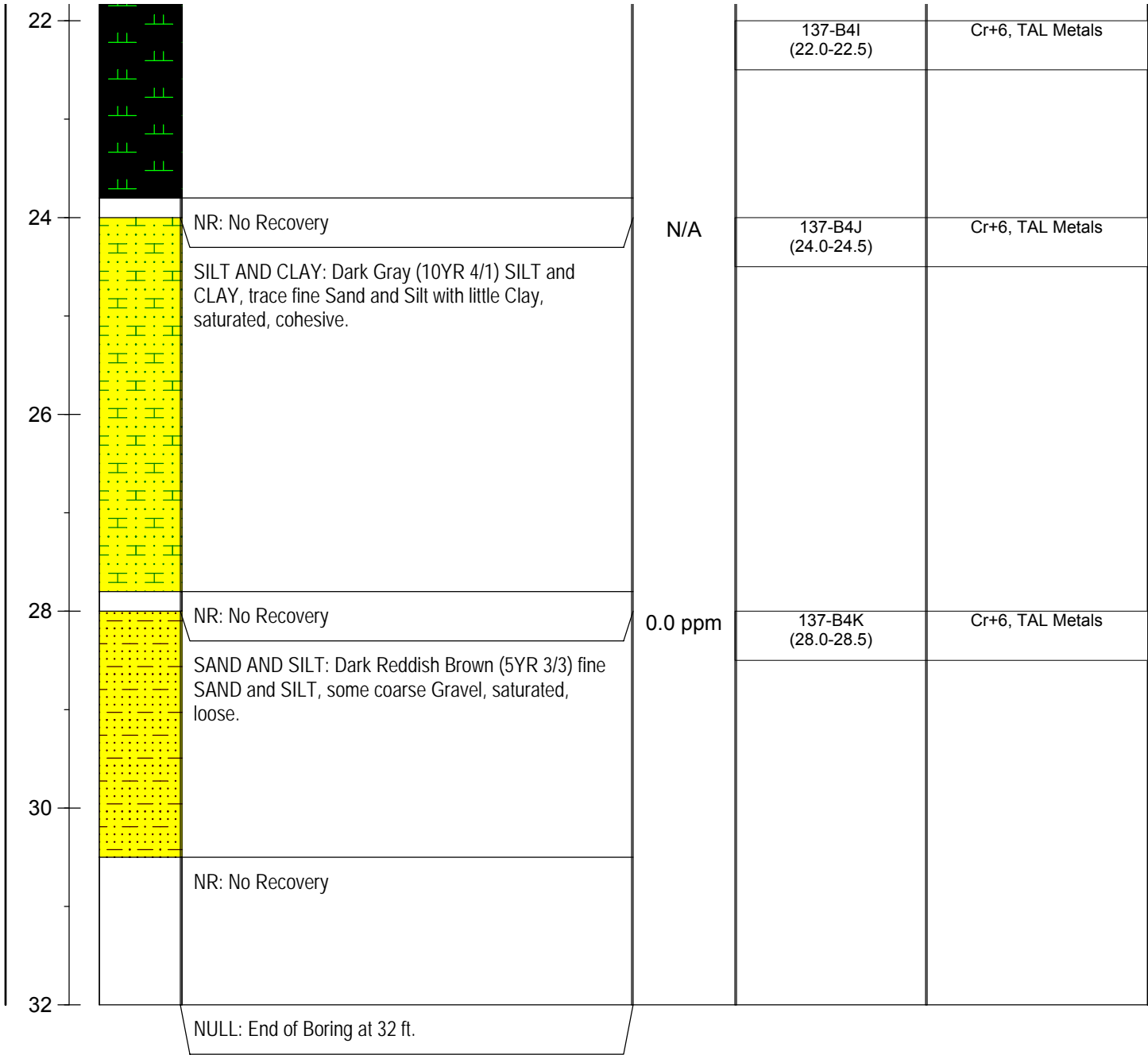
12		FILL: No Recovery			
		FILL: Very Dark Gray (10YR 3/1) to Dark Gray (10YR 4/1) fine to medium GRAVEL, ASH, and CINDERS, little fine to medium Sand and Silt, saturated, loose. Slight sheen and petro-like odors at 14.0-14.2 feet.	0.0 ppm	137-B4E (12.5-13.5) 137-B4ED (12.5-13.5)	Cr+6, TAL Metals
14					
		FILL: No Recovery			
16		FILL: Dark Gray (10YR 4/1) fine to medium GRAVEL, ASH, and CINDERS, some fine Sand and Silt, saturated, loose.	0.0 ppm	137-B4F (16.5-17.0)	Cr+6, TAL Metals
					
18		PEAT: Black (10YR 2/1) PEAT		137-B4G (17.7-18.2)	Cr+6, TAL Metals
					
					
20		NR: No Recovery			
		PEAT: Very Dark Gray (10YR 3/1) PEAT, Black (10YR 2/1) increased organic material at 23.0-23.2 feet	0.7-0.2 ppm	137-B4H (20.0-20.5)	Cr+6, TAL Metals
					
					
					
					
					
					
					
					
					
					
					

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Client: PPG Industries	BORING ID: 137-B4	
Site: Site 137		
Start Date: 12/6/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-610954.8 Y-682695.0	Depth of Boring: 32.00
End Date: 12/8/2006	Elevation: 14.91	Geologist: P. Kelly, R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B5	
Start Date: 10/10/2006	Project: Site Investigation	Page: 1 of 4
	Coordinates: X-611049.0 Y-682746.2	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 15.00	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		CONCRETE: Concrete floor (staining). No sample taken.	0.0 ppm		
		FILL: Dark Reddish Brown (5YR 3/2) SILT, little Gravel, dry. No odor.	0.0 ppm	137-B5A (0.5-1.0)	MS/MSD, Cr+6, TAL Metals
2		FILL: Lime Green SILTY CLAY, 20% COPR, dry. No odor.	0.0 ppm		
		FILL: Black (Gley N2.5/0) ROCK fragments, Slag, Rust and Lime Green staining, dry. No odor.	0.0 ppm		
4		FILL: Olive Gray (5Y 5/2) CLAY, some Lime Green staining, little Silt, trace Gravel, 15% COPR, moist.	0.0 ppm	137-B5B(4.0-4.5) 137-B5BD(4.0-4.5)	Cr+6, TAL Metals
		FILL: Olive Gray (5Y 5/2) SILTY CLAY. Little fine Sand and Gravel, 15% COPR, wet. (WASTE MUD)	0.0 ppm		
6		NR: No Recovery	0.0 ppm		
			0.0 ppm		
8		FILL: Olive Gray (5Y 5/2) SILTY CLAY. Little fine Sand and Gravel, 50-90% COPR, heavy Lime Green staining, wet. Odor. (WASTE MUD)	0.0 ppm	137-B5C (8.0-8.5)	Cr+6, TAL Metals
			0.0 ppm		
10			0.0 ppm		

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Client: PPG Industries	BORING ID: 137-B5	
Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 2 of 4
	Coordinates: X-611049.0 Y-682746.2	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 15.00	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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12			0.0 ppm		
			0.0 ppm		
			0.0 ppm	137-B5D (12.5-13.0)	Cr+6, TAL Metals
		FILL: Dark Gray (5Y 4/1) GRAVEL, some Silt, wet. Odor.	0.0 ppm		
14			0.0 ppm		
		FILL: Olive Gray (5Y 5/2) SILTY CLAY, little fine Sand and Gravel, 50-90% COPR, wet. Ammonia odor. (WASTE MUD)	0.0 ppm		
			0.0 ppm		
16			0.0 ppm	137-B5E (16.0-16.5)	Cr+6, TAL Metals
			0.0 ppm		
18			0.0 ppm		
			0.0 ppm		
20			0.0 ppm		
		PEAT: Very Dark Gray (5Y 3/1) PEAT (Meadow Mat), Organics, firm, moist. Sulfur odor.	0.0 ppm		
			0.0 ppm	137-B5F (21.0-21.5)	Cr+6, TAL Metals

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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B5	
Start Date: 10/10/2006	Project: Site Investigation	Page: 3 of 4
End Date: 10/10/2006	Coordinates: X-611049.0 Y-682746.2	Depth of Boring: 36.00
	Elevation: 15.00	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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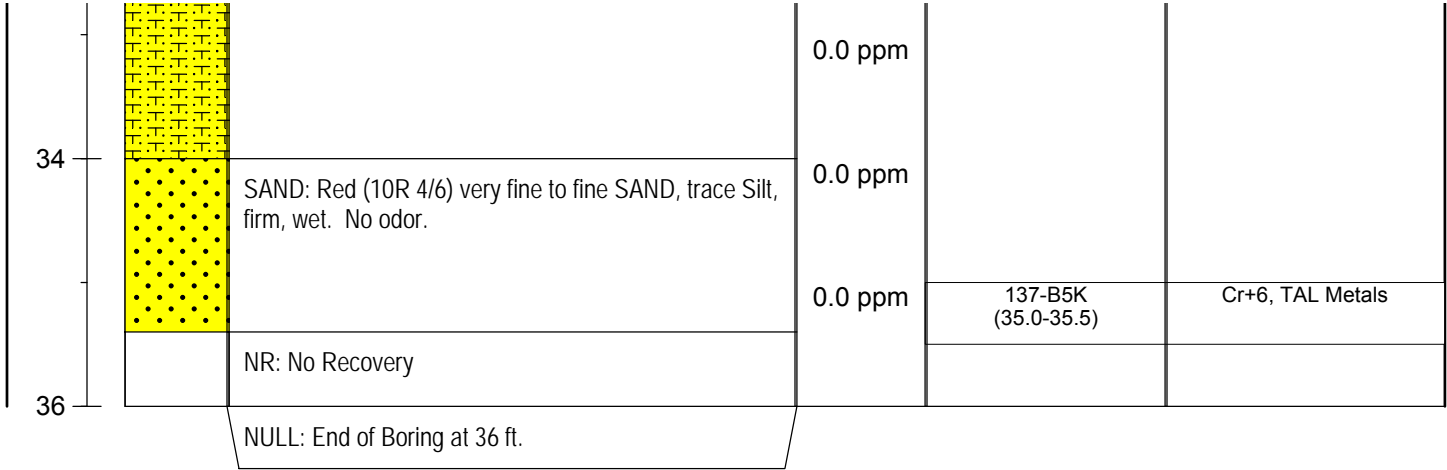
22			0.9 ppm		
			7.8 ppm	137-B5G (23.0-23.5)	Cr+6, TAL Metals
24		NR: No Recovery	0.0 ppm		
		PEAT: Very Dark Gray (5Y 3/1) PEAT (Meadow Mat), Organics, firm, moist. Sulfur odor.	0.0 ppm	137-B5H (25.0-25.5)	Cr+6, TAL Metals
26			0.0 ppm		
		CLAY: Dark Greenish Gray (5G 4/1) CLAY, little coarse Sand, firm, moist. No odor.	0.0 ppm	137-B5I (27.0-27.5)	Cr+6, TAL Metals
		SILTY SAND: Weak Red (2.5YR 4/2) fine to coarse SILT SAND, trace Gravel, wet. No odor.	0.0 ppm		
28		NR: No Recovery	0.0 ppm		
		GRAVEL AND CLAY: Dark Gray (Gley N4/0) GRAVEL and interbedded CLAY, some fine Sand, wet. No odor.	0.0 ppm		
30			0.0 ppm		
		SILTY SAND: Red (10R 4/6) very fine to coarse SAND, some Silt, trace Gravel, wet. No odor.	0.0 ppm	137-B5J (30.5-31.0)	Cr+6, TAL Metals
		NR: No Recovery	0.0 ppm		
32			0.0 ppm		
		SILTY SAND: Red (10R 4/6) very fine SILTY SAND, loose, wet. No odor.	0.0 ppm		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries		BORING ID: 137-B5
Site: Site 137		
Start Date: 10/10/2006	Project: Site Investigation	Page: 4 of 4
	Coordinates: X-611049.0 Y-682746.2	Depth of Boring: 36.00
End Date: 10/10/2006	Elevation: 15.00	Geologist: M. Merdinger
	Drill Subcontractor: TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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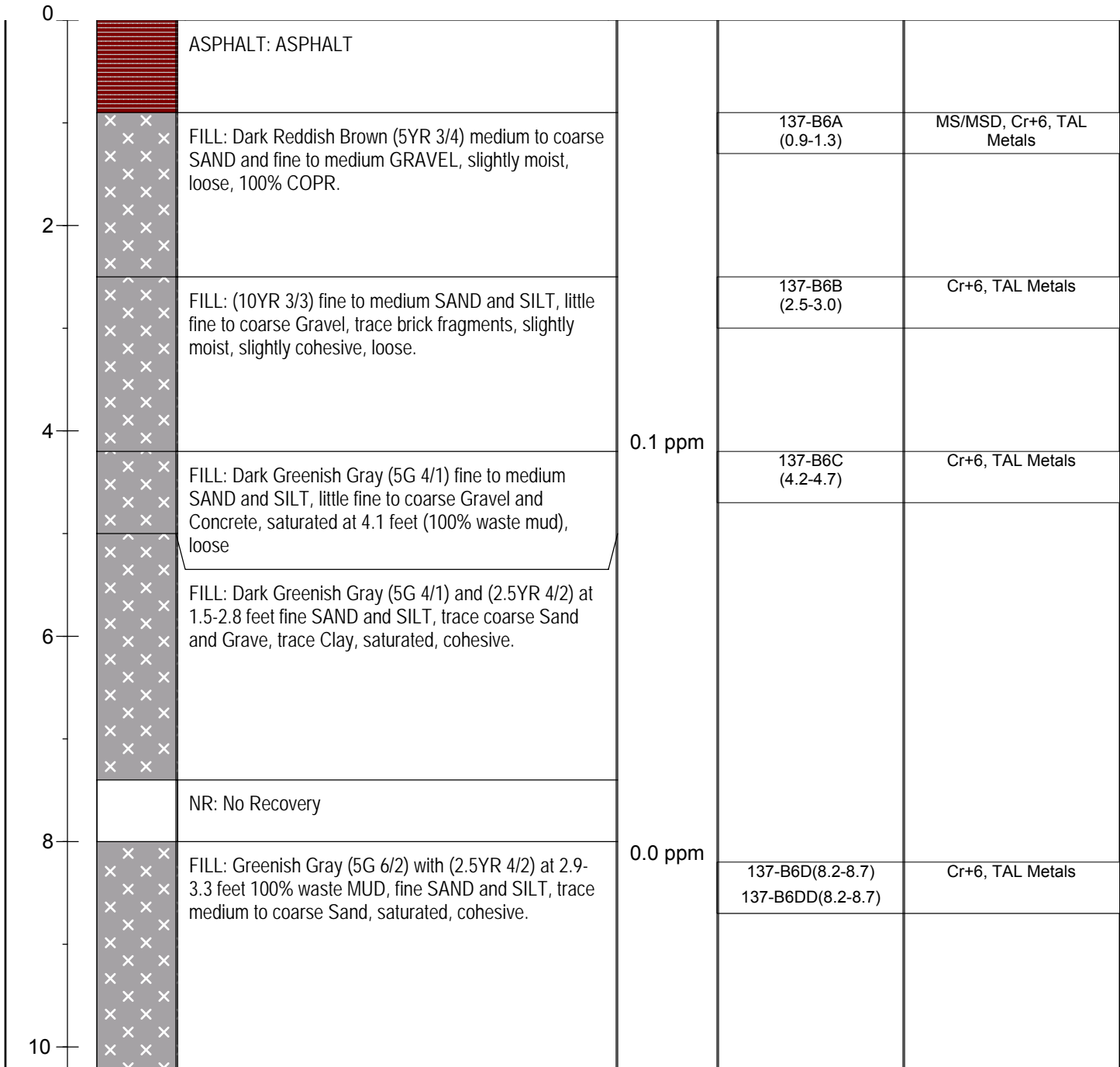


NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B6	
Start Date: 12/4/2006	Project: Site Investigation	Page: 1 of 3
End Date: 12/6/2006	Coordinates: X-611049.5 Y-682623.7	Depth of Boring: 28.00
	Elevation: 14.79	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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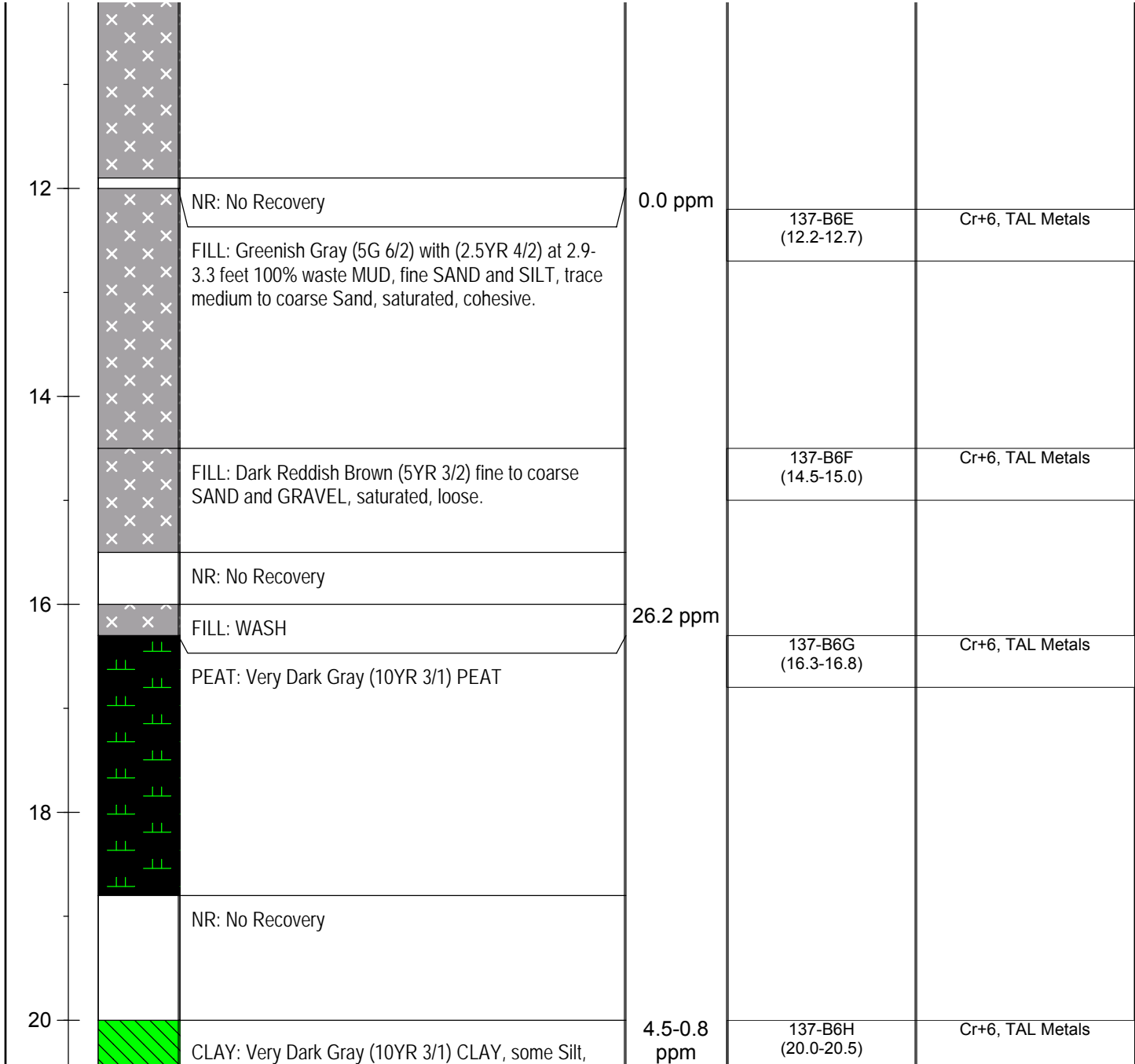


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Client: PPG Industries	BORING ID: 137-B6	
Site: Site 137		
Start Date: 12/4/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611049.5 Y-682623.7	Depth of Boring: 28.00
End Date: 12/6/2006	Elevation: 14.79	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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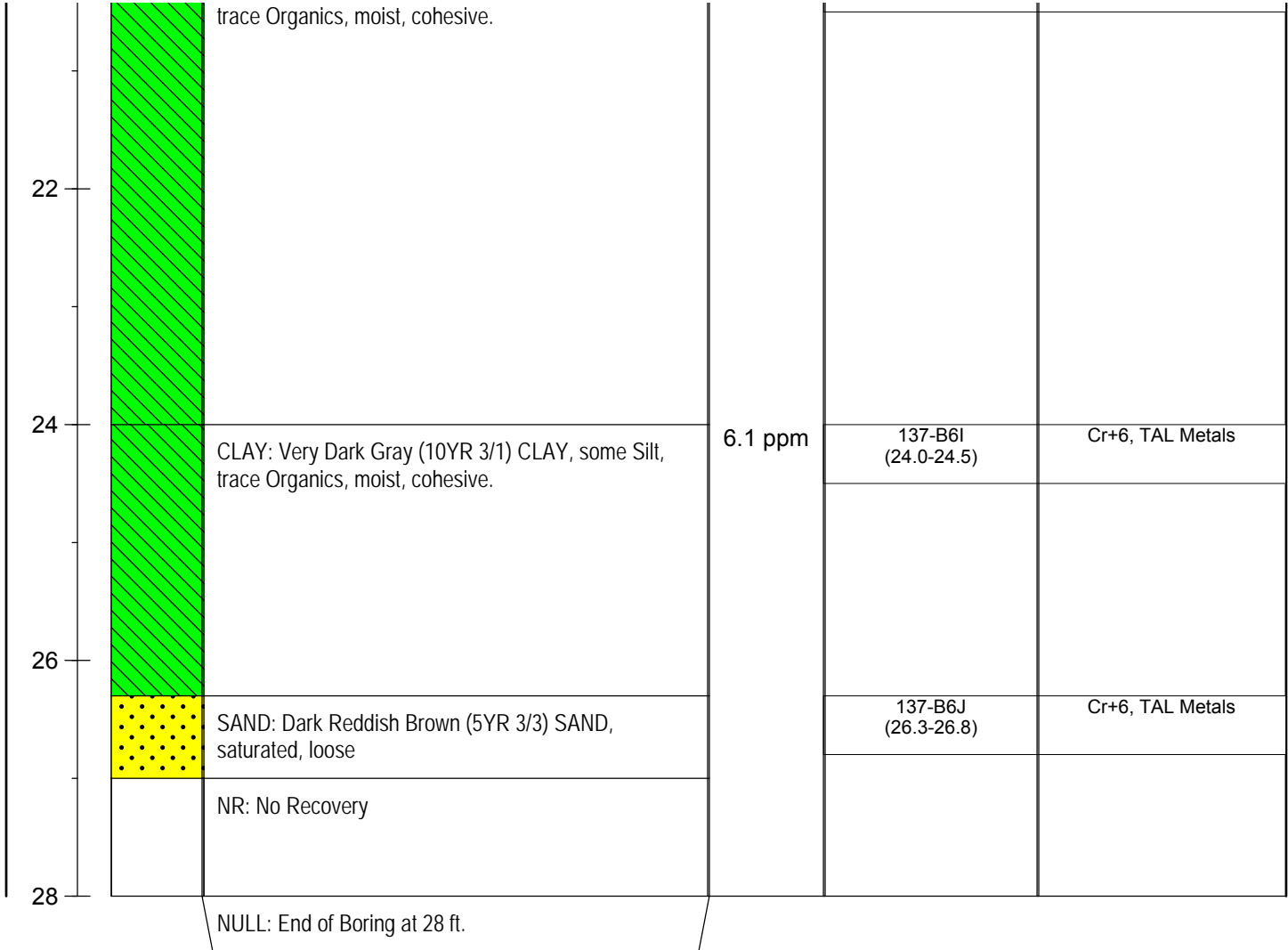


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Client: PPG Industries	BORING ID:	
Site: Site 137	137-B6	
Start Date: 12/4/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611049.5 Y-682623.7	Depth of Boring: 28.00
End Date: 12/6/2006	Elevation: 14.79	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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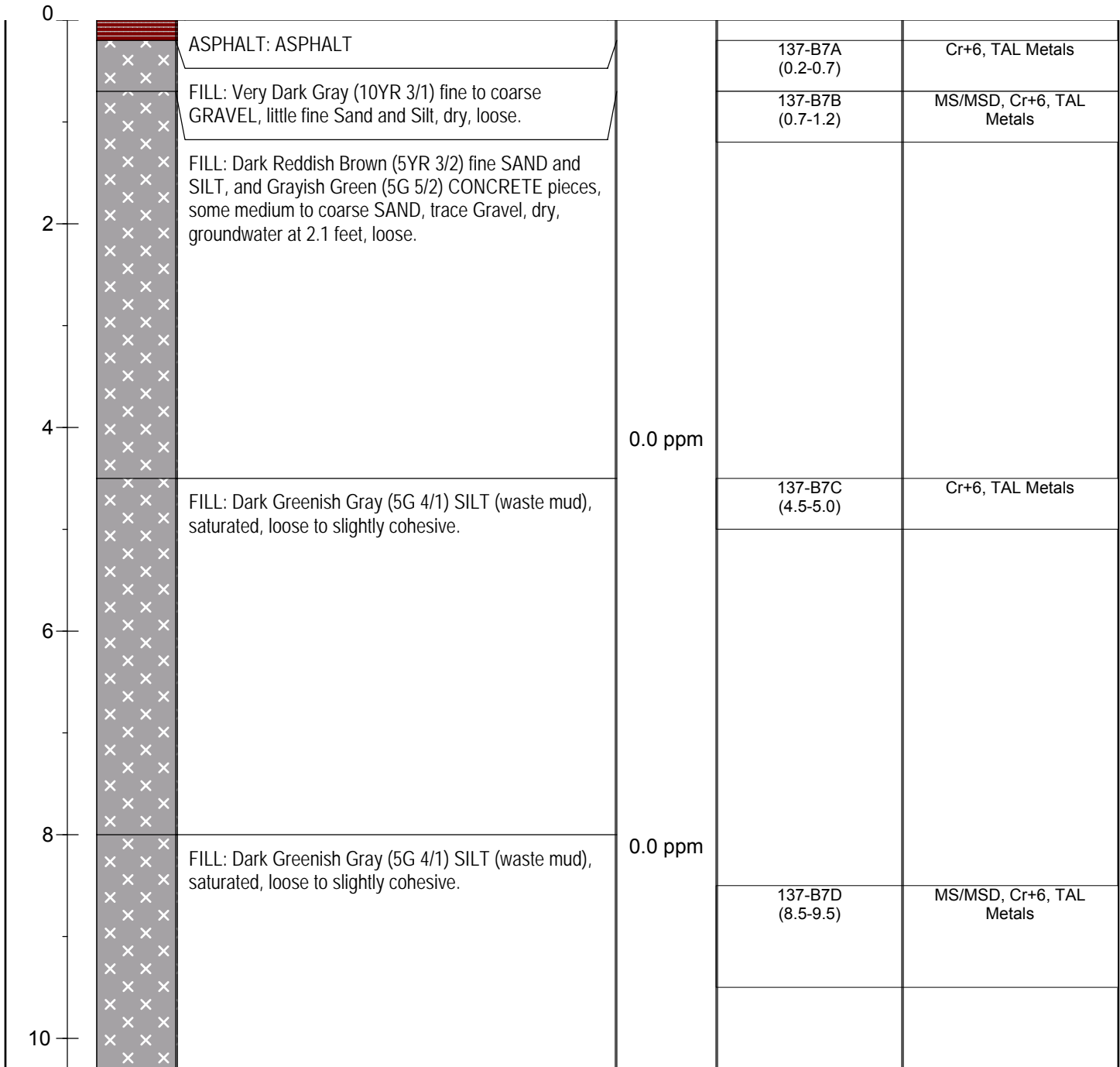


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Client: PPG Industries		BORING ID: 137-B7
Site: Site 137		
Start Date: 12/4/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-611248.5 Y-682813.9	Depth of Boring: 28.00
End Date: 12/6/2006	Elevation: 13.44	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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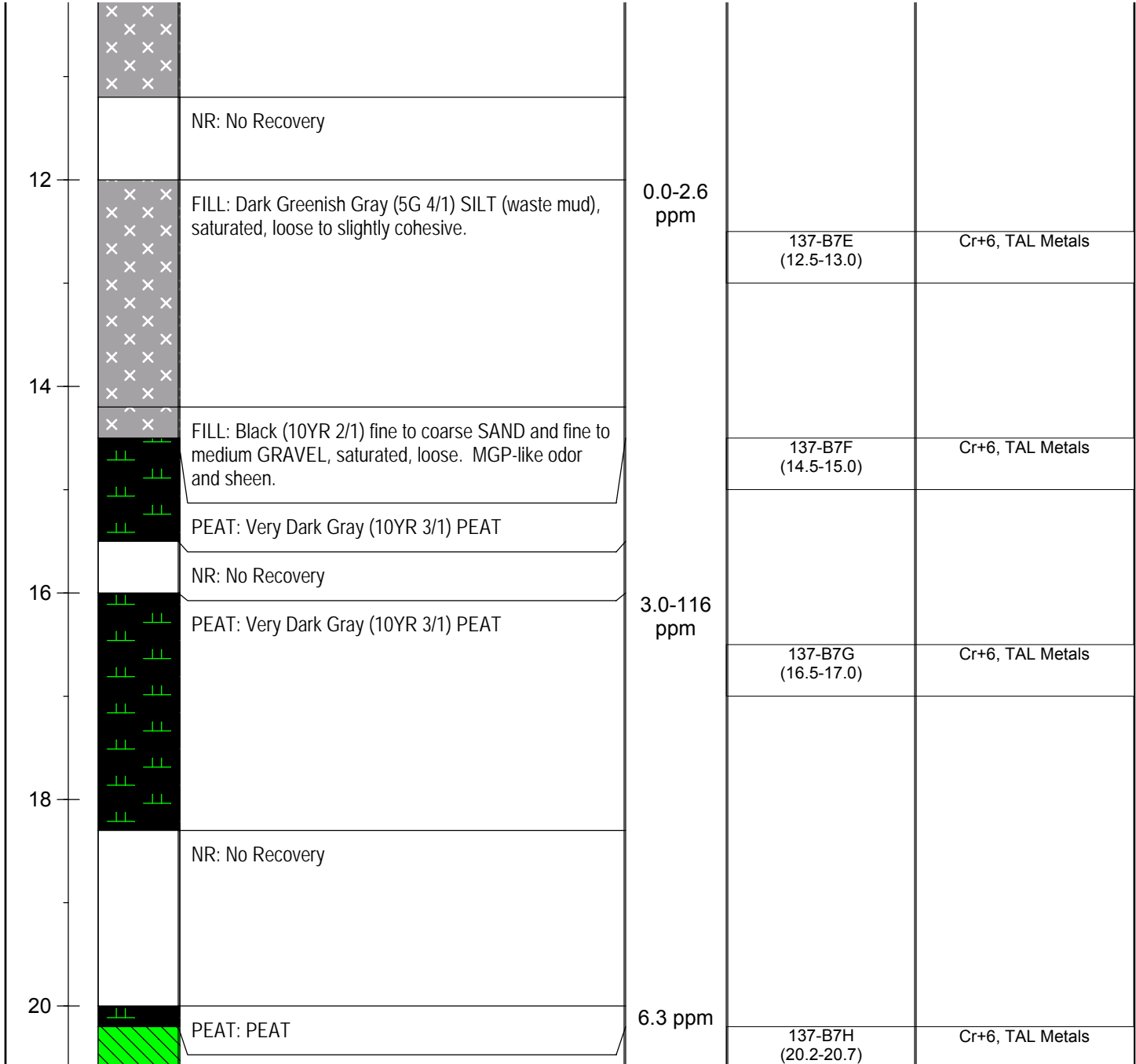


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Client: PPG Industries	BORING ID: 137-B7	
Site: Site 137		
Start Date: 12/4/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611248.5 Y-682813.9	Depth of Boring: 28.00
End Date: 12/6/2006	Elevation: 13.44	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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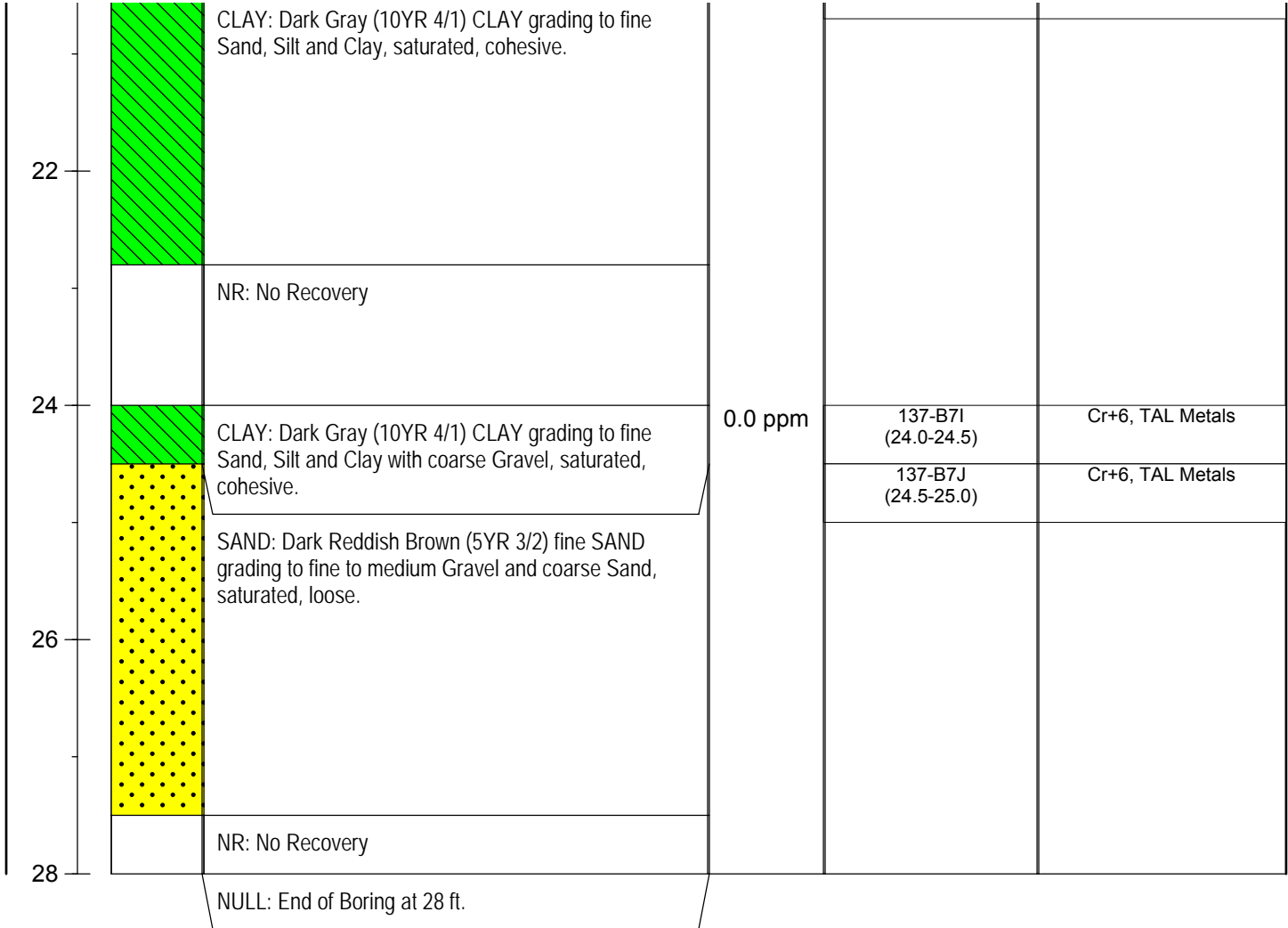


NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID: 137-B7	
Site: Site 137		
Start Date: 12/4/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611248.5 Y-682813.9	Depth of Boring: 28.00
End Date: 12/6/2006	Elevation: 13.44	Geologist: R. Firely
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

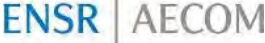
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ENSR AECOM		Client: PPG Industries	BORING ID: 137-B9		
		Site: Site 137			
Start Date: 1/23/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610859.4 Y-682723.5	Depth of Boring: 28.00			
End Date: 1/23/2007	Elevation: 16.55	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0	ASPHALT: ASPHALT				
	FILL: Coarse GRAVEL Asphalt sub-base.				
	FILL: Dark Yellowish Brown (10YR 4/4) medium SAND, little fine to medium Gravel and COPR (20%), trace woody organics, moist.			137-B9A (1.0-1.4)	Cr+6, TAL Metals
2	FILL: Dark Reddish Brown (2.5YR 2.5/3) coarse SAND, some fine gravel-sized COPR (40%), little fine Gravel and Silt, trace woody organics.			137-B9B(3.2-3.4)	Cr+6, TAL Metals
	FILL: Dark Reddish Brown (2.5 YR 3/4) fine Gravel, some Sand and Silt, little fine gravel-sized COPR (10%).		0.0 ppm		
4	FILL: Greenish Gray (5G 5/1) SILT (mottled with bright green fine Sand and Clay), trace fine Gravel, dense.			137-B9E (4.6-5.1)	Cr+6, TAL Metals
	FILL: Greenish Gray (5G 5/1) SILTY CLAY, some fine Sand, very dense.		0.0 ppm		
6				137-B9F (6.3-6.7)	Cr+6, TAL Metals
			0.0 ppm		
8				137-B9G(9.2-9.5)	Cr+6, TAL Metals
			0.0 ppm		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

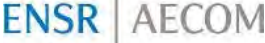
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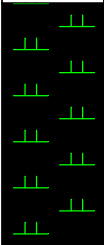
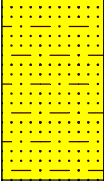
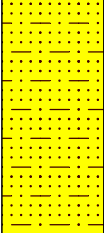
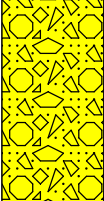
	Client: PPG Industries		BORING ID: 137-B9		
	Site: Site 137				
Start Date: 1/23/2007	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-610859.4 Y-682723.5		Depth of Boring: 28.00		
End Date: 1/23/2007	Elevation: 16.55		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10			0.0 ppm		
		NR: No Recovery			
12		FILL: Greenish Gray (5G 5/1) SILTY CLAY, some fine Sand, very dense.	0.0 ppm		
			0.0 ppm	137-B9H (12.5-13.2)	Cr+6, TAL Metals
			2.0 ppm		
14		FILL: Very Dark Grayish Brown (10YR 3/2) fine to medium GRAVEL and ASH, little coarse Sand, Silt and ceramic pieces.	0.0 ppm		
			0.0 ppm	137-B9I(15.1-15.4)	Cr+6, TAL Metals
16		FILL: Very Dark Grayish Brown (10YR 3/2) fine to medium GRAVEL and ASH, little coarse Sand, Silt and ceramic pieces.	NA		
		FILL: Very Dark Grayish Brown (10YR 3/2) fine to medium GRAVEL and ASH, little coarse Sand, Silt and ceramic pieces. Black staining			
18		NR: No Recovery			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

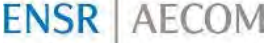
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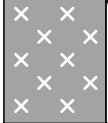
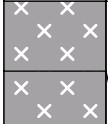
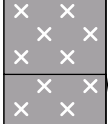
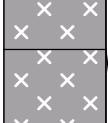
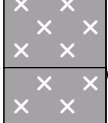
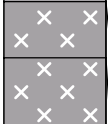
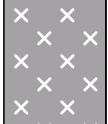
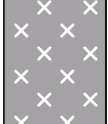
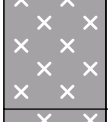
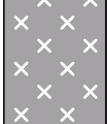
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	Site: Site 137				
Start Date: 1/23/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610859.4 Y-682723.5	Depth of Boring: 28.00			
End Date: 1/23/2007	Elevation: 16.55	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

20		PEAT: Dark Brown (10YR 3/3) CLAY and ORGANICS (meadow mat).	NA	137-B9J (20.0-20.5)	Cr+6, TAL Metals
			44.6 ppm		
22		SAND AND SILT: Gray (5Y 5/1) fine SAND and SILT, some Clay, trace organics.	NA	137-B9K(22.5-22.9)	Cr+6, TAL Metals
		NR: No Recovery			
24		SAND AND SILT: Gray (5Y 5/1) fine SAND and SILT, some Clay, trace organics.	NA		
26		GRAVEL: Reddish Brown (2.5YR 4/3) fine to coarse GRAVEL, some coarse Sand, wet.	0.0 ppm		
		NR: No Recovery			
28		NULL: End of Boring at 28 ft. Borehole collapsed to 18 ft after last sample.			

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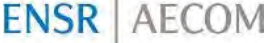
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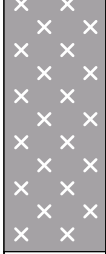
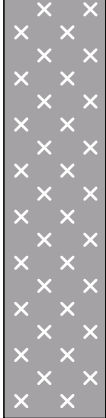
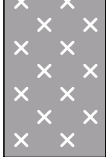
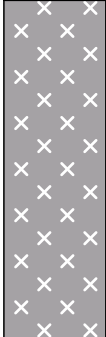
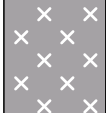
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	Site: Site 137				
Start Date: 1/23/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610917.1 Y-682669.1	Depth of Boring: 27.00			
End Date: 1/23/2007	Elevation: 15.59	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
		FILL: Fine to coarse GRAVEL, asphalt sub-base.			
		FILL: Dark Yellowish Brown (10YR 4/4) medium SAND, little fine to medium gravel-sized COPR (20%), trace woody organics.		137-B11A (1.1-1.6)	Cr+6, TAL Metals
2		FILL: Dark Reddish Brown (2.5 YR 2.5/3) coarse SAND, some fine gravel-sized COPR (40%), little fine GRAVEL and Light Greenish Gray (5YR 7/1) Silt in fine gravel-sized conglomerated pieces.		137-B11B (1.6-2.1)	Cr+6, TAL Metals
		FILL: Red (2.5 YR 4/6) SILT, some white (2.5 8/1) conglomerated Silte and fine Sand (hard), little gravel-sized COPR (15%).		137-B11C(2.5-2.8)	Cr+6, TAL Metals
		FILL: Greenish Gray (5G 5/1) fine SAND and SILT, little Clay.	0.0 ppm	137-B11D (3.2-3.6)	Cr+6, TAL Metals
4		FILL: Black (5YR 2.5/1) coarse SAND, some fine to coarse Gravel, little Dark Red (10R 3/6) fine gravel-sized slag.		137-B11E (4.2-4.6)	Cr+6, TAL Metals
		FILL: Green Gray Mud, Lime Green with Gray (5YR 3/1) CLAY and SILT, some fine Sand, trace fine Gravel.	1.0 ppm	137-B11F (4.6-5.0)	Cr+6, TAL Metals
6		FILL: Green Gray Mud, Lime Green and some Dary Gray (Gley N/4) fine SAND, some Silt, little Clay, trace fine Gravel.	6.0 ppm	137-B11E(5.5-6.4) 137-B11ED(5.5-6.4)	Cr+6, TAL Metals Cr+6, TAL Metals
8		FILL: Black (10YR 2/1) stained Gray (10YR 6/1) ASH, some matted Organics and fine Gravel, petroleum sheen,wet.	0.1 ppm		
			0.1 ppm	137-B11F(8.9-9.6)	Cr+6, TAL Metals

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

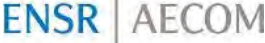
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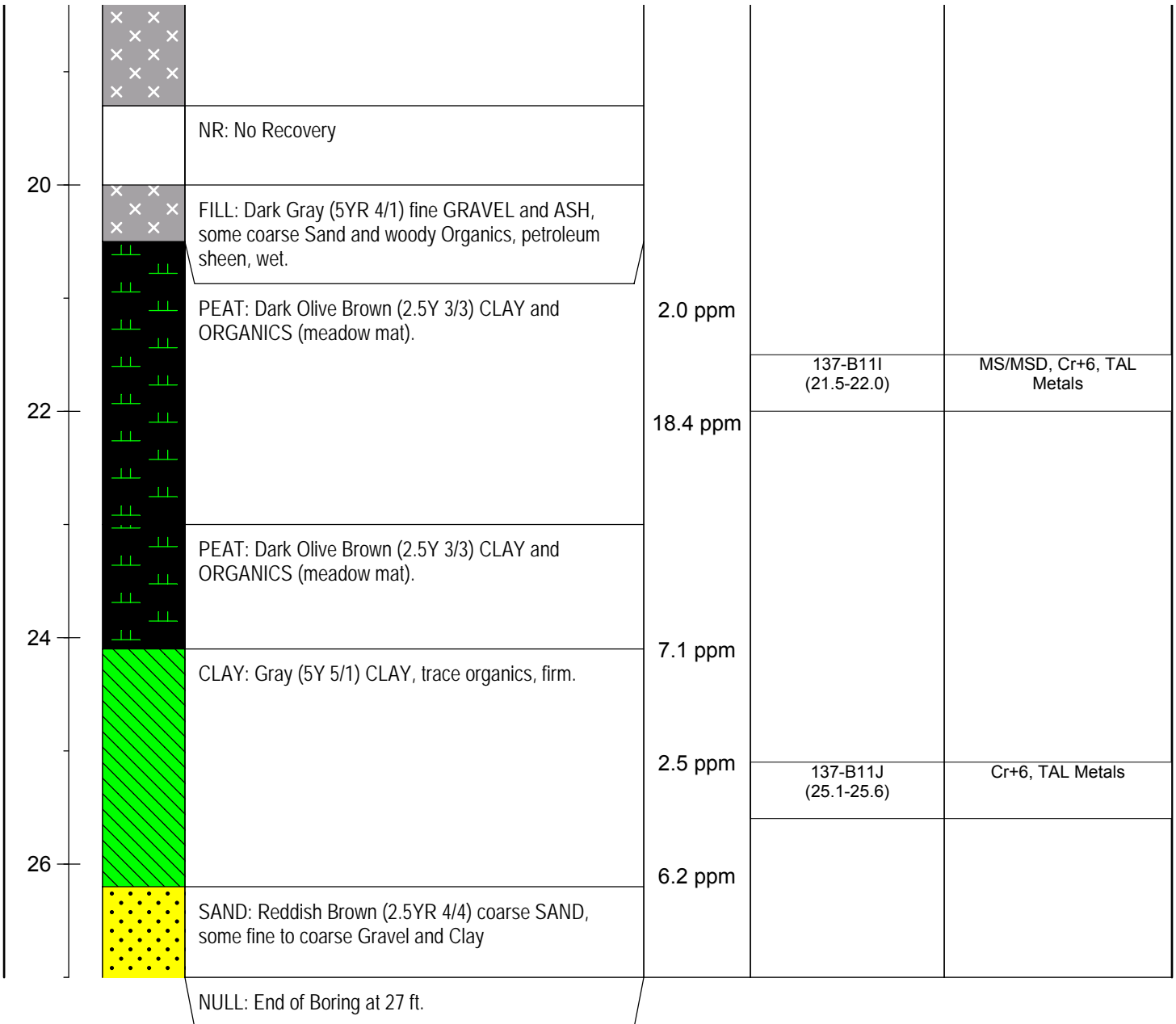
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	Site: Site 137				
Start Date: 1/23/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610917.1 Y-282669.1	Depth of Boring: 27.00			
End Date: 1/23/2007	Elevation: 15.59	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10			0.1 ppm		
		NR: No Recovery			
12		FILL: Dark Gray (5YR 4/1) fine GRAVEL and ASH, some coarse Sand and woody Organics, petroleum sheen, wet.	0.1 ppm		
			0.0 ppm	137-B11G (13.2-13.6)	Cr+6, TAL Metals
14			0.0 ppm		
		NR: No Recovery			
16		FILL: Dark Gray (5YR 4/1) fine GRAVEL and ASH, some coarse Sand and woody Organics, petroleum sheen, wet.	3.3 ppm		
			0.0 ppm		
18			0.0 ppm	137-B11H (17.6-18.0)	Cr+6, TAL Metals

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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	Client: PPG Industries	BORING ID: 137-B11			
	Site: Site 137				
Start Date: 1/23/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610917.1 Y-682669.1	Depth of Boring: 27.00			
End Date: 1/23/2007	Elevation: 15.59	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings				Asphalt
0.8-1.3		137-1CA (0.8-1.3) Cr+6, TAL Metals	0.0			Gray coarse GRAVEL (Sub-surface Macadam)
1.3-2.6						Gray coarse GRAVEL (Sub-macadam)
2.6-3.1		137-1CB (2.6-3.1) Cr+6, TAL Metals	0.0			Dark Brown coarse SAND, some fine Gravel, little fine gravel-sized COPR (10%).
3.1-4.1						Dark Brown-Red medium SAND, fine gravel-sized COPR (40%), little woody organics, loose, dry. No odor.
4.1-4.6		137-1CC (4.1-4.6) Cr+6, TAL Metals	0.0			Red-brown coarse SAND, some fine gravel-sized COPR (30%), little fine Gravel.
4.6-5.0						Brown coarse SAND, little fine to medium gravel-sized COPR (10%), loose, wet. No odor.
5.0-5.5		137-1CC (5.0-5.5) Cr+6, TAL Metals	0.0	4		Red and Green SILT and medium SAND, some fine gravel-sized COPR (25%), wet.
5.5-6.0				3		Gray coarse SAND, little fine to medium gravel-sized COPR (10%), loose, wet. No odor.
6.0-6.5				2		Dark Reddish Gray (5YR 4/2) SILT and fine sub-angular GRAVEL, 70% COPR, wet, very loose. No odor.
6.5-7.0				2		No Recovery
7.0-7.5			0.0	3		Dark Reddish Gray (5YR 4/2) SILT and fine sub-angular GRAVEL, 75% COPR, wet, very loose. No odor.
7.5-8.0			0.0	3		Dark Reddish Gray (5YR 4/2) SILT and fine sub-angular GRAVEL, 75% COPR, wet, very loose. No odor.

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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9 10 11 12 13 14 15 16		137-1CD (8.1-9.0) Cr+6, TAL Metals 137-1CDD (8.1-9.0) Cr+6, TAL Metals		3		Grayish Brown (2.5Y 5/2) medium to coarse SAND, some Silt, little fine rounded Gravel, trace Clay. Black, Green and Teal staining, 50% medium gravel-sized COPR (green stained), wet, medium dense. No odor.	
			0.0	23		Mint Green SILT, little coarse Sand, trace Clay, moist, cohesive, very stiff. No odor. (100% Waste Mud)	
		137-1CE (9.5-10.0) Cr+6, TAL Metals		14		Brown (7.5YR 5/2) coarse SAND, little fine angular Gravel and Silt, moist, loose. No odor.	
			0.0	7		Bright Lime Green strong cemented SILT, little fine sub-angular Gravel, moist, loose. No odor. (100% Waste Mud)	
		137-1CF (10.3-10.7) Cr+6, TAL Metals		4		No Recovery	
			0.0	2		Olive Gray (5Y 5/2) with Lime Green staining SILT, little coarse Sand, trace Clay, moist, cohesive, soft. Chemical/Sewage odor. (100% Waste Mud)	
		137-1CG (11.5-12.0) Cr+6, TAL Metals		2			
			0.0	3			
				3			
			0.1	WH		Dark Reddish Brown (5YR 4/3) SILT, trace fine sub-angular Gravel, moist, very loose. Raw sewage odor.	
				WH			
		137-1CH (14.0-14.5) Cr+6, TAL Metals		1.0	1		Black-stained PEAT, moist, cohesive, very soft. Sulfur odor.
					1		No Recovery
			1.0	WH		Very Dark Gray (5Y 3/1) organic CLAY, trace Peat, cohesive, very soft, moist. Sulfur odor.	
		137-1CI (16.0-17.0)		2.2			

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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17		MS/MSD, Cr+6, TAL Metals				
			1.0	1		No Recovery
18		137-1CJ (17.4-18.0) Cr+6, TAL Metals 137-1CJD (17.4-18.0) Cr+6, TAL Metals		1		Very Dark Gray (5Y 3/1) PEAT, organics, cohesive, very soft, moist. Sulfur odor.
			0.0	WH		No Recovery
19			N/A	WH		
20						
21			N/A	N/A		
22						
23		137-1CK (23.0-23.5) Cr+6, TAL Metals	1.5	2		Very Dark Gray (5Y 3/1) organic CLAY, trace organics, cohesive, soft, moist. Sulfur odor.
24		137-1CL (23.5-24.3) MS/MSD, Cr+6, TAL Metals		3		Dark Gray (2.5Y 4/1) CLAY and fine to medium SAND, some Silt and Wood peices, wet, cohesive, soft. Sulfur odor.
			1.1	3		

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

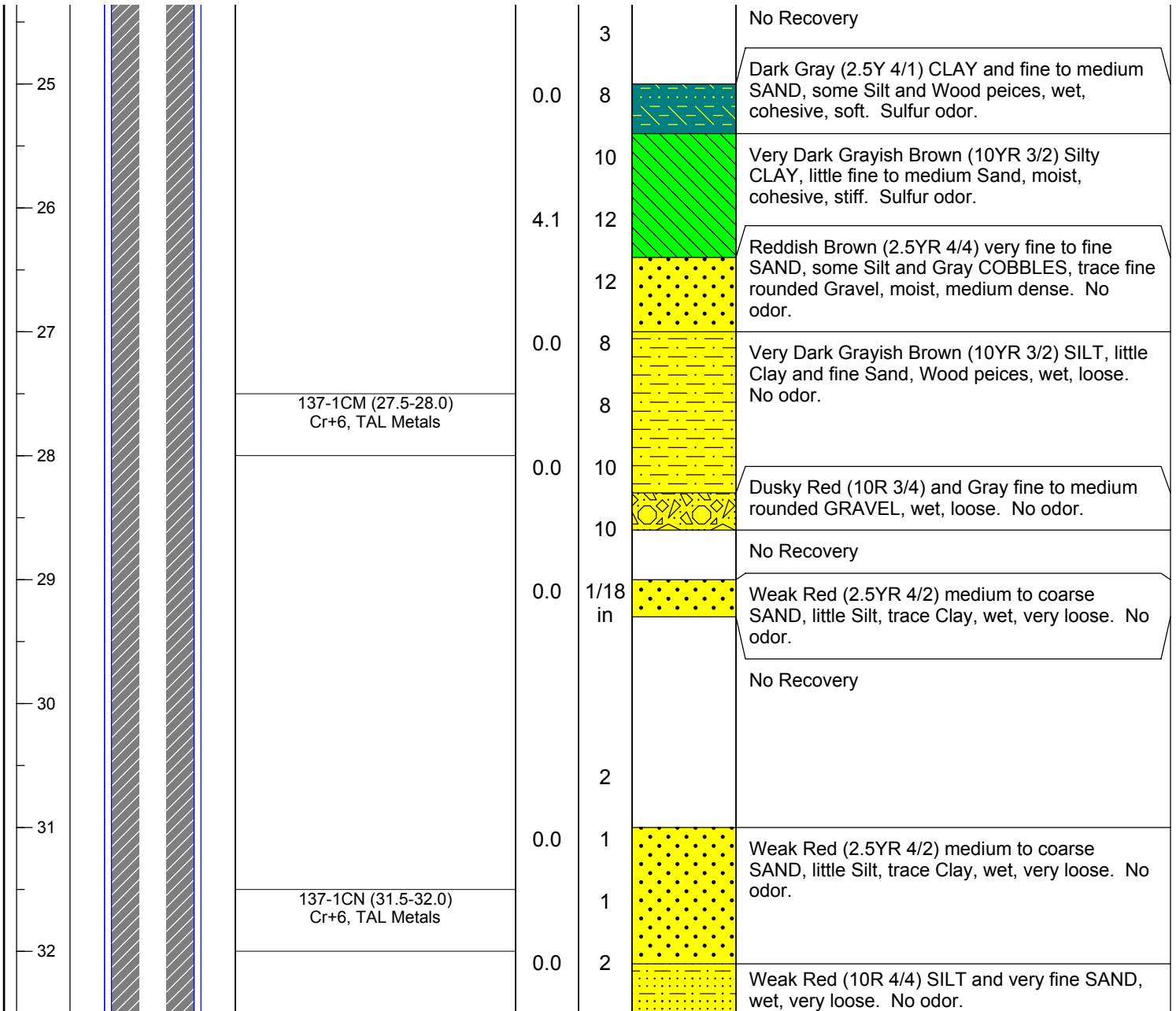
Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

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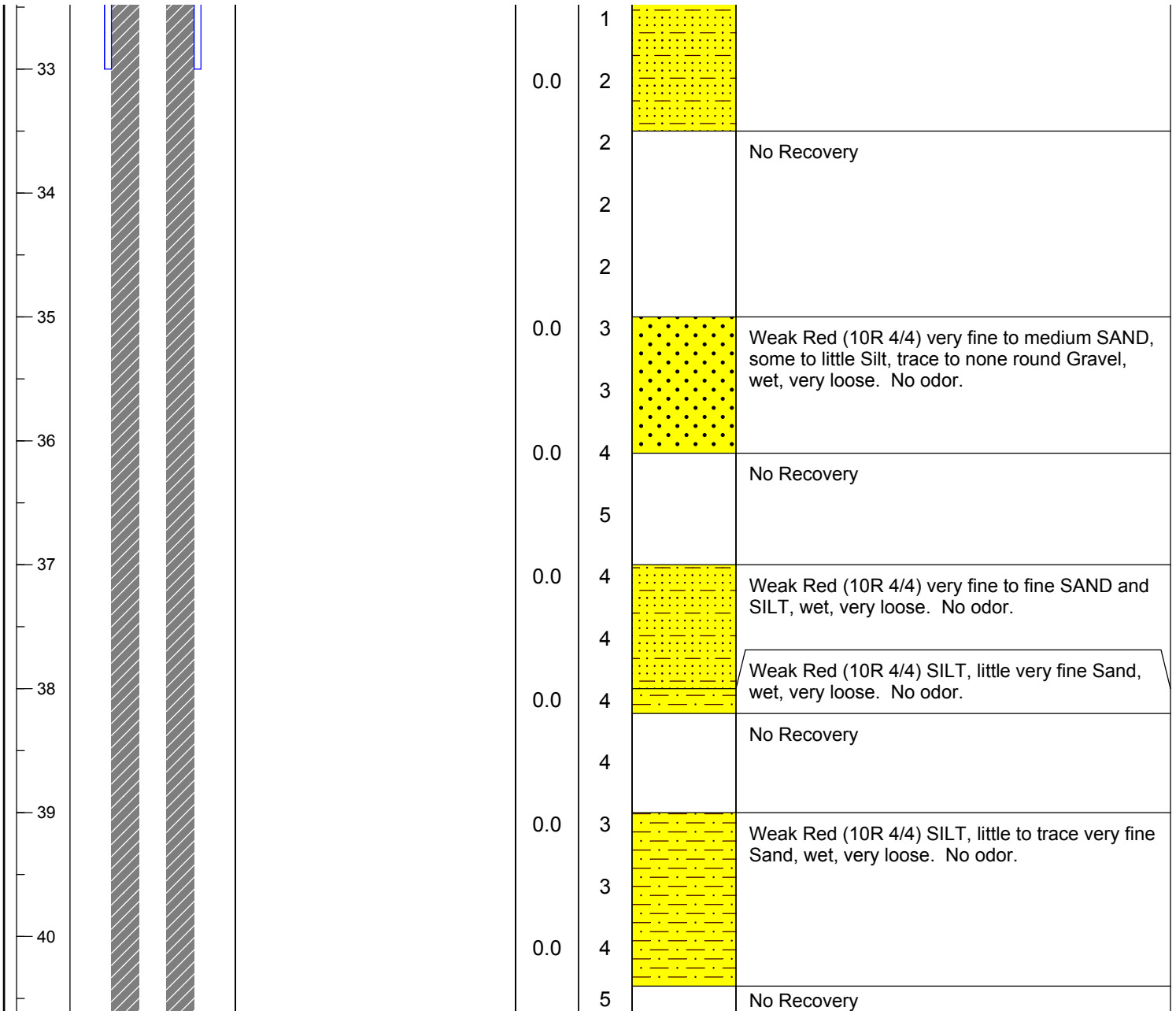
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State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Site: Site 137

Site Location: Jersey City, NJ

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Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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41 42 43 44 45 46 47 48			0.0	3		Weak Red (10R 4/4) SILT, trace very fine Sand, wet, loose. No odor.
				4		
			0.0	4		No Recovery
				6		
			0.0	3		Weak Red (10R 4/4) SILT, very loose, wet. No odor.
				4		
				4		No Recovery
				4		
			0.0	5		Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose. No odor.
				5		
			0.0	5		No Recovery
				5		
	3		Weak Red (10R 4/4) very fine SAND and SILT, wet, very loose. No odor.			
	2					
	2		Reddish Brown (5YR 4/3) CLAY, trace interbedded very fine Sand, cohesive, very soft, moist. No odor.			
	2		No Recovery			

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

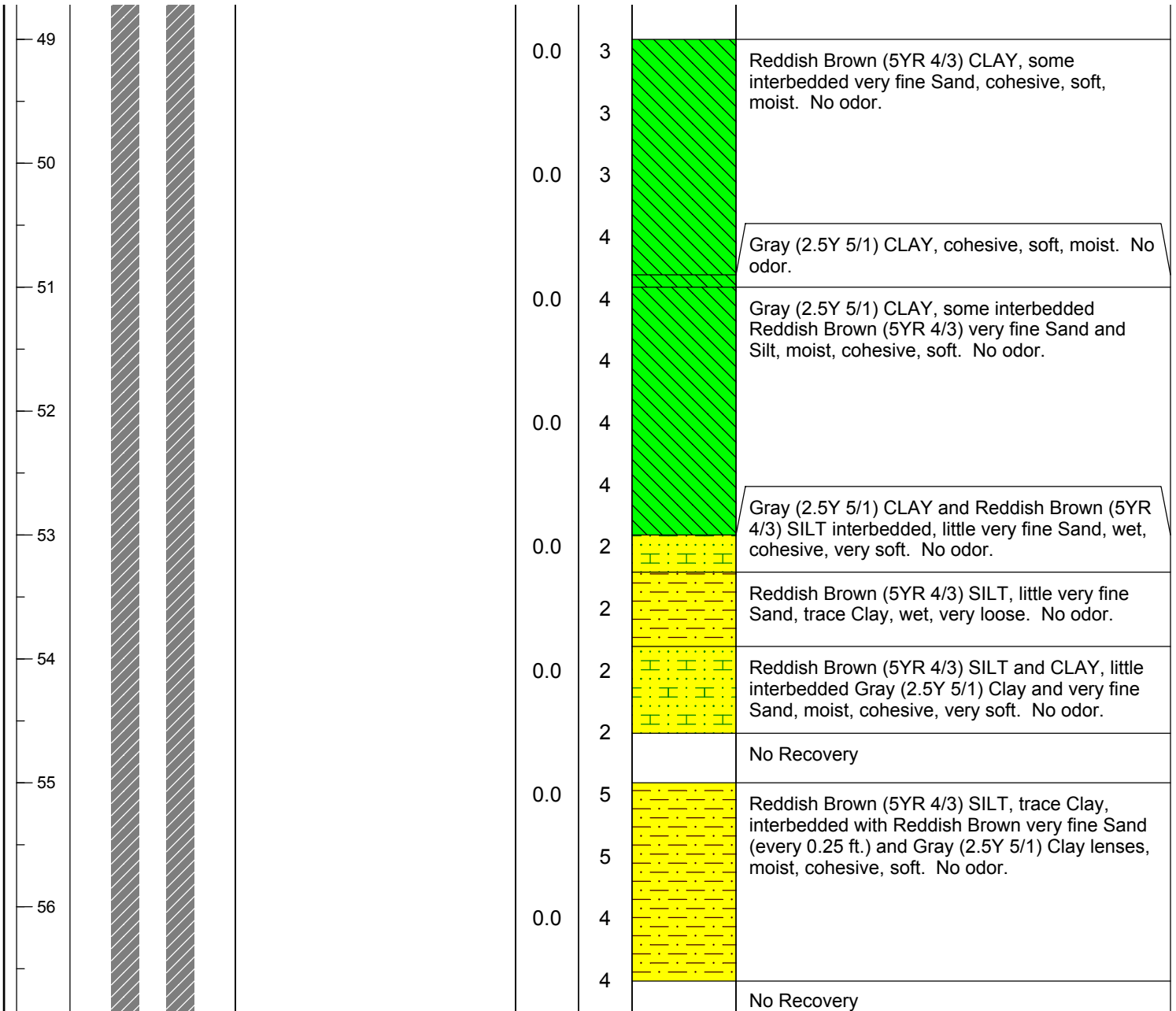
Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Site: Site 137

Site Location: Jersey City, NJ

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Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

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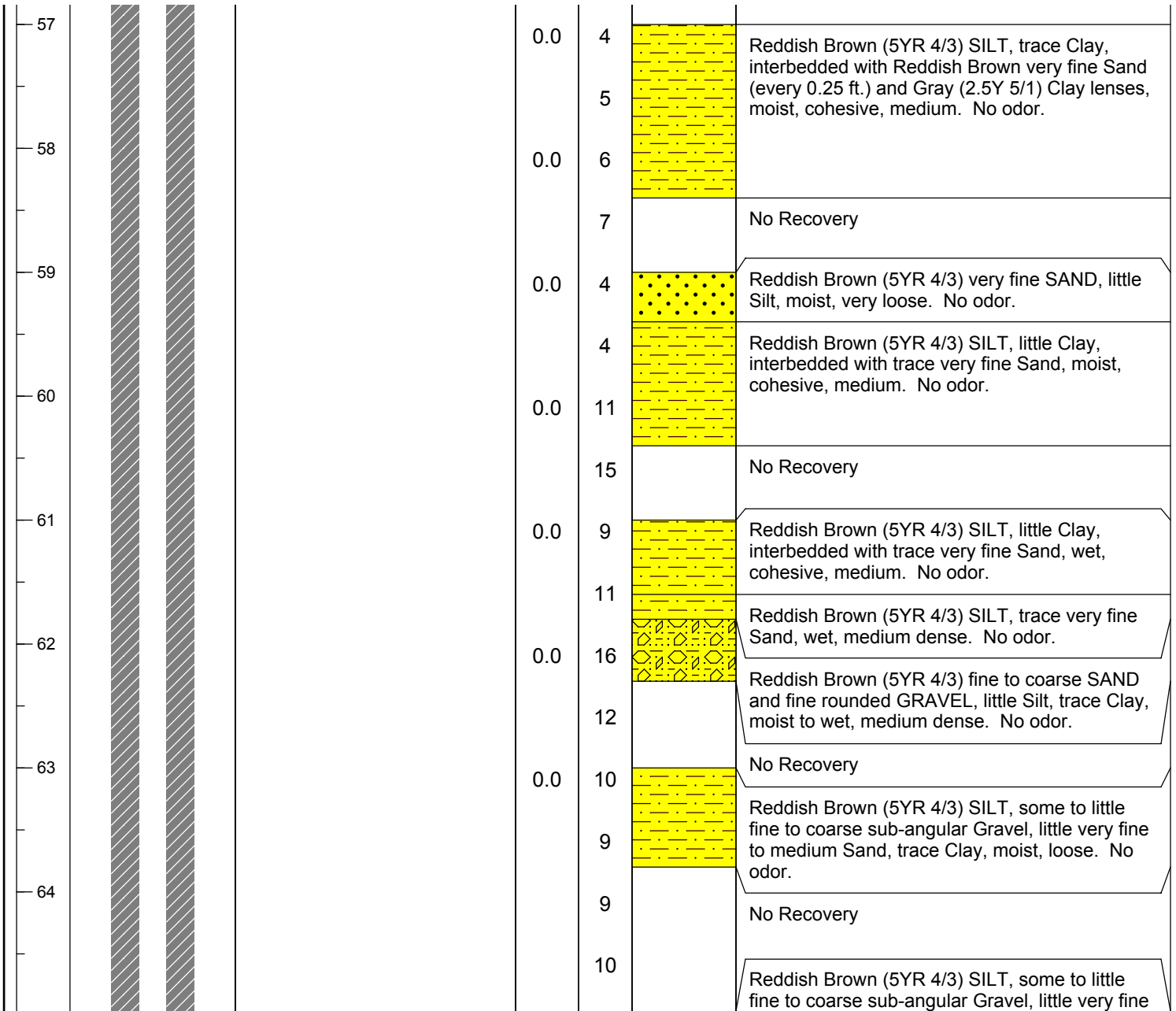
Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/11/2006

Well Completion Date: 3/15/2007

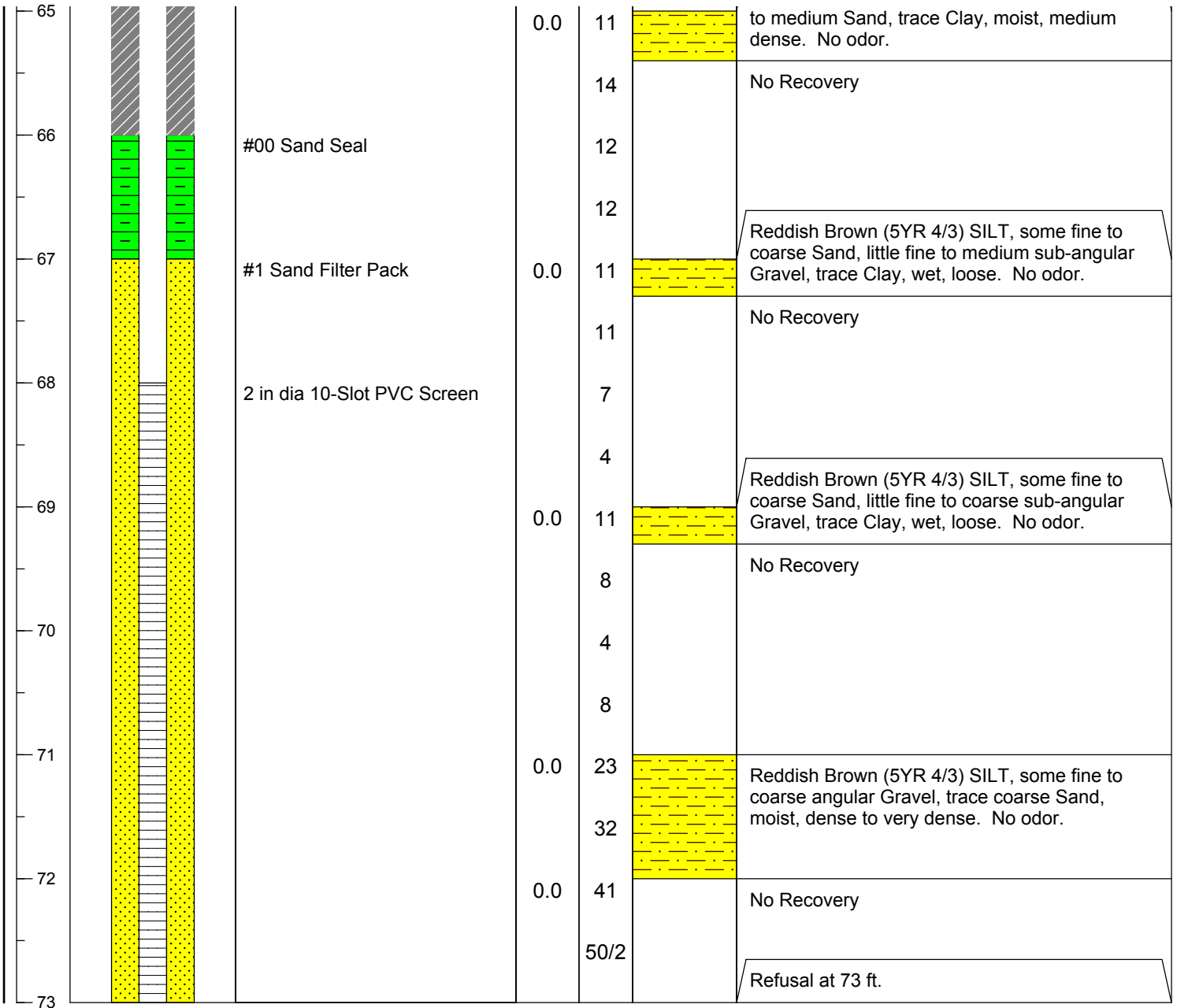
Elevation: 14.71

State Plane Coordinates: X: 683020.2 Y: 611036.7

Drilling Method: HSA/Mud Rotary

137-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings	0.0			Asphalt
0-1		137-MW2CA (0.4-0.6) Cr+6, TAL Metals	0.0			Fine to coarse GRAVEL, little fine Sand and Silt, trace Clay, loose around 1.7, some black fabric, moist.
1-2		137-MW2CB (1.7-2.2) MS/MSD, Cr+6, TAL Metals				Gray (5g, 4/2) fine SAND and SILT, little medium to coarse Sand, trace COPR (5YR, 3/3), (100% waste mud), slightly cohesive, moist.
2-3						No Sample
3-4						
4-5						End of Soft Dig
5-6		137-2CE (5.0-5.5) Cr+6, TAL Metals	0.0	10		Black fine to medium semi-round GRAVEL, little Silt, loose, wet. no odor.
6-7			0.0	6		Greenish-Gray (5GY, 5/1) SILT and Black fine to medium, semi-round GRAVEL, trace coarse Sand, lime green staining, loose, moist. (50% wastes mud). No odor.
7-8			0.0	4		
8-9		137-2CF (7.5-8.0) Cr+6, TAL Metals	0.0	6		No Recovery
9-10			0.0	7		Mint Greenish-Gray SILT, trace Clay, cohesive, medium. No odor. (100% waste mud)
			0.0	5		
			0.0	9		No Recovery
			0.0	3		Mint Greenish-Gray SILT, trace coarse Sand and Clay, shell fragments, yellow staining, cohesive, medium. No odor. (100% waste mud)
			0.0	3		
			0.0	4		
			0.0	9		

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

Elevation: 15.62

State Plane Coordinates X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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11			0.0	5		No Recovery
12		137-2CG (11.5-12.5) Cr+6, TAL Metals 137-2CGD (11.5-12.5) Cr+6, TAL Metals	0.0	5		Mint Greenish-Gray and Greenish-Gray (5GY, 5/1) mottled SILT, trace Clay and coarse Sand, cohesive, medium. No odor. (100% waste mud)
13			0.0	6		No Recovery
14			0.0	7		No Recovery
15			0.0	5		No Recovery
16		137-2CH (15.5-16.0) Cr+6, TAL Metals	0.0	3		Olive Brown (2.5Y, 4/3) SILT, some coarse Sand and round fine to medium Gravel, loose, moist. no odor. (50% waste mud)
17		137-2CI (17.0-17.5) Cr+6, TAL Metals	N/A	8		Mint Greenish-Gray SILT, trace Clay and coarse Sand, Lime Green staining, cohesive, soft to medium, moist to wet. no odor. (100% waste mud)
18			N/A	4		
19			N/A	5		
20		137-2CJ (19.5-20.5) MS/MSD, Cr+6, TAL Metals	N/A	7		
21			N/A	2		Black organic CLAY, some Peat, COPR nodule at 17.8' with Teal Green staining, cohesive, soft, moist. Sulfur/MGP odor
			N/A	2		
			N/A	2		Very Dark Gray (Gley N, 3/0) organic CLAY, little organics and Peat, cohesive, soft, moist. Sulfur odor.
			N/A	2		
			N/A	2		
			N/A	3		
			N/A	3		
			6.7	WH		

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

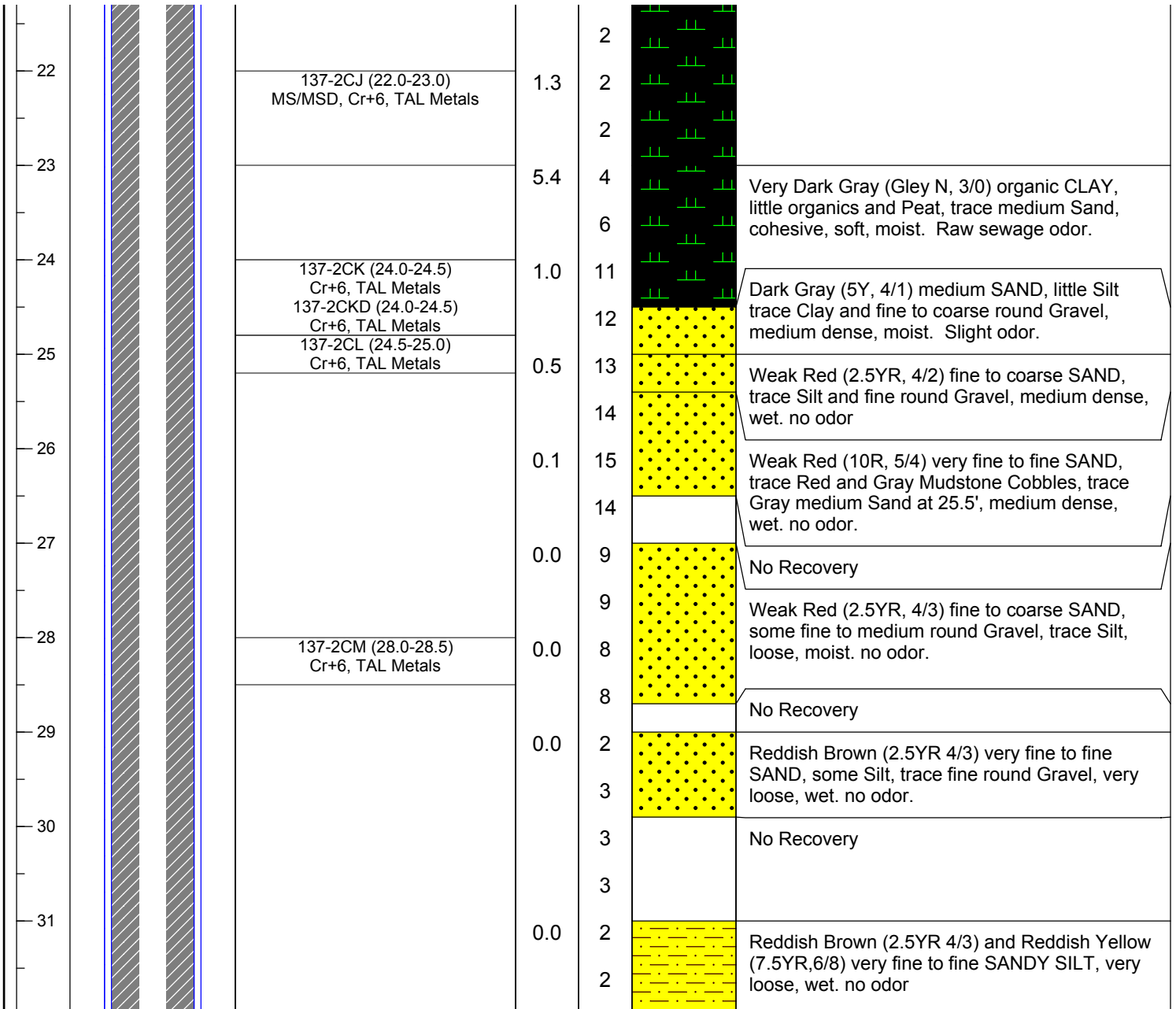
Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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32		137-2CN (32.5-33.0) Cr+6, TAL Metals	0.0	3			
					3		
33			0.0	3		Weak Red (10R, 4/3) very fine SILT and SAND, very loose, wet. no odor	
					2		
34			0.0	3		No Recovery	
					2		
35			0.0	3		Weak Red (10R, 4/4) SILT, little very fine Sand, very loose, wet. no odor.	
					3		
36					4	No Recovery	
					5		
37			0.0	3		Weak Red (10R, 4/4) very fine SILT and SAND, very loose, wet. no odor.	
					3		
38					4	No Recovery	
					5		
39	0.0	4		Dark Grayish Brown (2.5Y, 4/2) coarse SAND, some fine to medium round Gravel, trace Silt and Clay, very loose, wet. no odor.			
			4				
40	0.0	4		Weak Red (10R, 4/4) SILT, little very fine Sand, very loose, wet. no odor.			
			4				
41	0.0	4		No Recovery			
			4				
42	0.0	4		Weak Red (10R, 4/4) SILT, little very fine Sand, loose, wet. no odor.			
			5				
			6		No Recovery		

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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43 44 45 46 47 48 49 50 51 52 53			0.0	4		Reddish Brown(2.5YR, 5/4) very fine SAND, trace Silt, loose, wet. no odor.
			0.0	6		No Recovery
			0.0	4		Reddish Brown (5YR, 4/4) SILT and very fine SAND, loose, wet. no odor
			0.0	7		No Recovery
			0.0	4		Weak Red (10R, 4/4) SILT, some very fine Sand, loose, wet. no odor
			0.0	5		No Recovery
			0.0	3		Weak Red (10R, 4/4) SILT, some very fine Sand, very loose, wet. no odor
			0.0	4		No Recovery
			0.0	4		Dark Reddish Brown (2YR, 3/4) SILT and very fine SAND, loose, wet. no odor
			0.0	7		No Recovery
			0.0	6		Dark Reddish Brown (2YR, 3/4) SILT and very

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

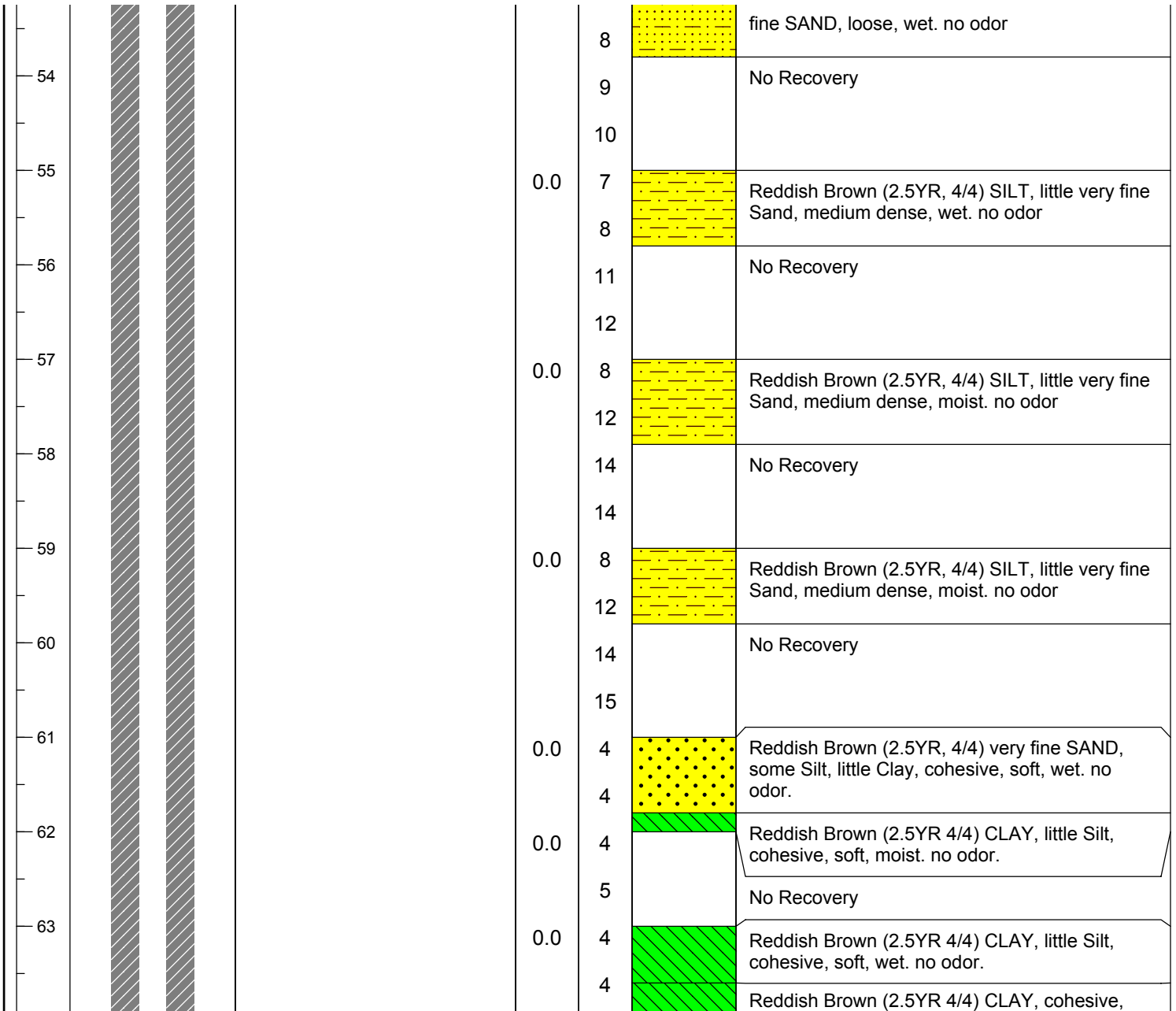
Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

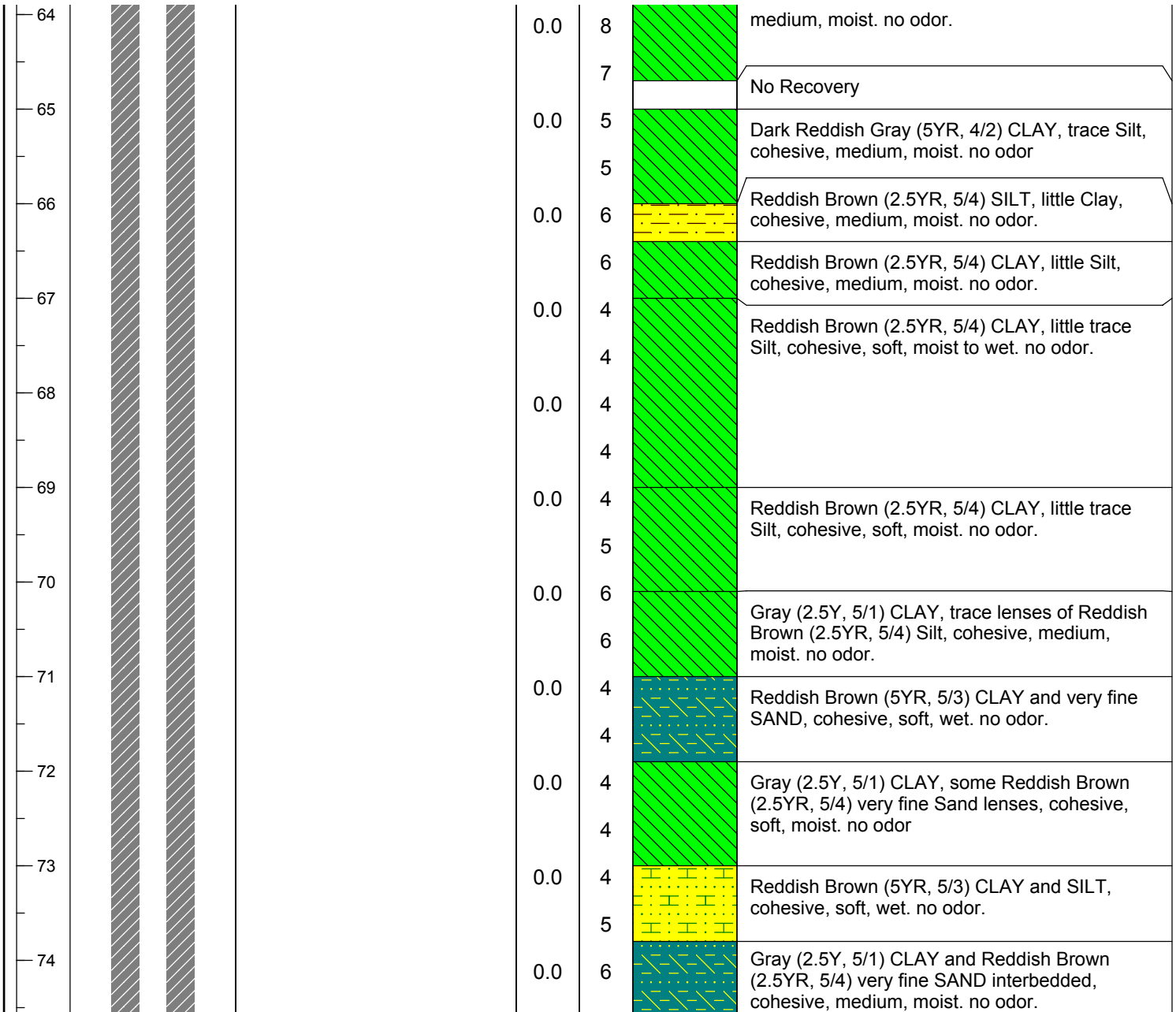
Elevation: 15.62

State Plane Coordinates: X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

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Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller J. Malecki

Drilling Date: 12/5/2006

Well Completion Date: 3/1/2007

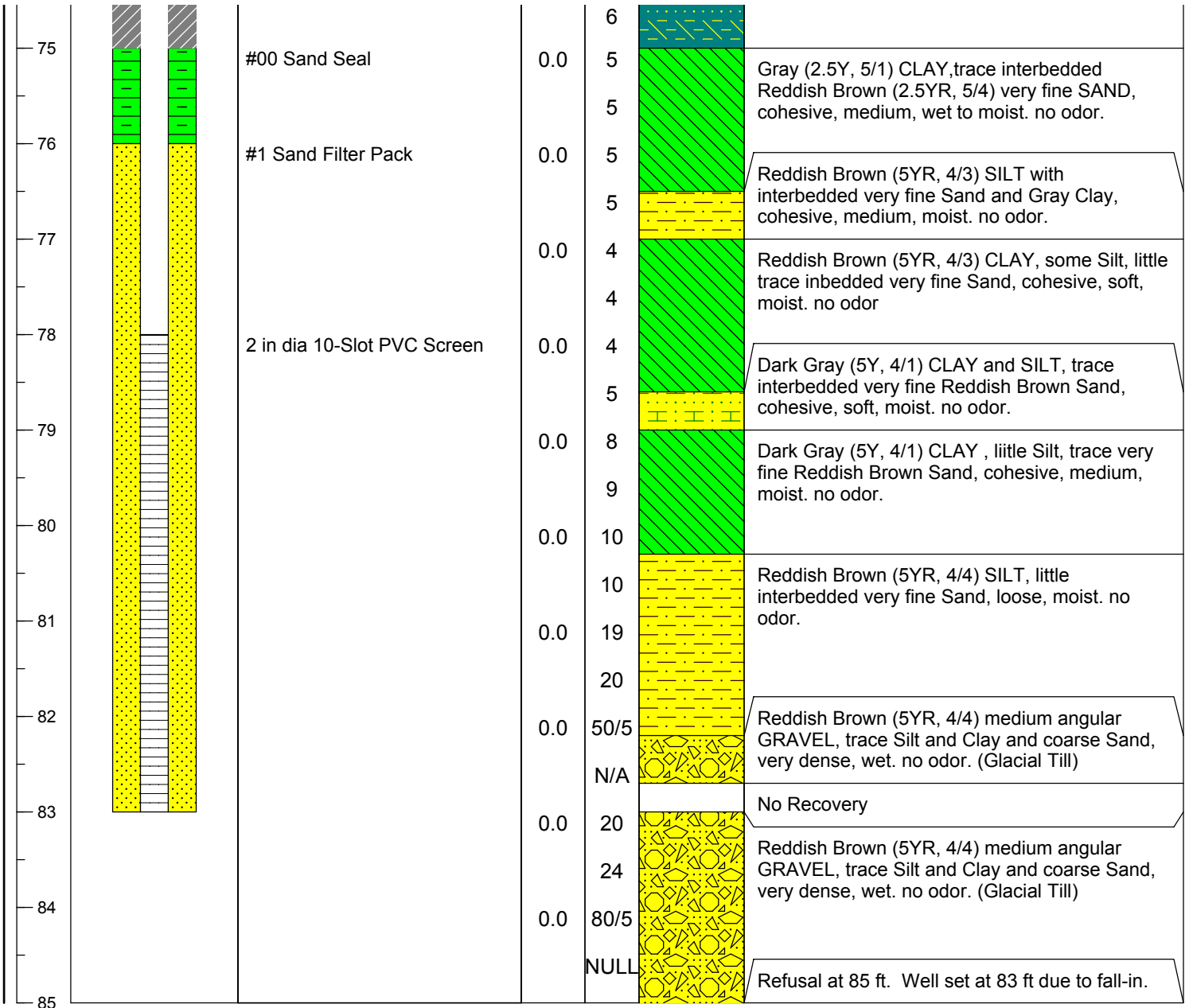
Elevation 15.62

State Plane Coordinates X: 682801.3 Y: 610918.2

Drilling Method: HSA

137-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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NOTES: Coordinates are provided in New Jersey State Plane NAD 1983

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508493
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 611100.5
Drilling Date: 8/26/2015 11:40:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682952
Well Completion Date: 9/15/2015 12:00:00 PM	Elevation: 11.0	Total Well Depth: 47 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.01 ft
Physical Location: PBR Well P3B		Date Gauged: 9/17/2015

(Note: bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS - A.GDT - 12/3/15 17:23 - C:\USERS\IRVING\DOCUMENTS\MY EQUIS WORK\PPG - JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
-5										
-4										
-3										
-2										
-1										
0					0.0	3	FILL		DGA(Ammended), fine to coarse SAND, and gravel, (7.5YR 6/3) light brown,dry,no odor,no staining.	
1										
2		1								
3										
4										
5										
6					0.0	3	FILL		DGA(Ammended), fine to coarse SAND,with,(7.5YR 2.5/1) black,moist to wet,no odor,no staining, wet @ 11'.	
7										
8	▼									8" Steel Casing
9										
10		2								
11										
12										
13										
14										
15										
16										
17		4 3	0.5		0.0	7 NR	PT NR		PEAT(70% organic fibers, 30% organic silt)(7.5YR 2.5/2) very dark brown,soft to dense, moist,no odor,no staining,(Based on 137-P3B-MW101S lithology). NO RECOVERY.	Cement (bent-cement grout) 4" Riser (PVC sch 40)
18										
19					0.0	9	OL		UNDorg, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity soft,wet, slight organic odor,no staining.	
20										

Comments: Steel Casing set @ 17.0'

(Continued Next Page)



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 137-P3B-MW101I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508493
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 611100.5
Drilling Date: 8/26/2015 11:40:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682952
Well Completion Date: 9/15/2015 12:00:00 PM	Elevation: 11.0	Total Well Depth: 47 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.01 ft
Physical Location: PBR Well P3B		Date Gauged: 9/17/2015

(Note bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS - A.GDT - 12/3/15 17:23 - C:\USERS\IRVING\MDC\DOCUMENTS\WY EQUIS WORK\PPG - JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
20										
21										
22										
23										
24										
25										
26		5								
27				7-12-16-15 (28)						
28										
29										
30										
31										
32										
33										Annular seal (#00 Sand Seal)
34										
35										
36		6	1		20.8	8	SP	UNDno, fine to medium SAND, little silt, oil-like material, medium dense, wet, moderate naphthalene odor, sheen, (MGP Impacts observed).		
37		7				8	SP	NO RECOVERY.		
38										
39										
40										
41		8	1		0.0	8	SP	UNDno, fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.		Filter Pack (#1 Filter Pack)
42		9				8	SP	NO RECOVERY.		4" 10 Slot Screen (PVC sch 40)
43										
44										
45										

Comments: Steel Casing set @ 17.0'

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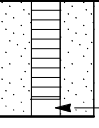


30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 137-P3B-MW101I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508493
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 611100.5
Drilling Date: 8/26/2015 11:40:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682952
Well Completion Date: 9/15/2015 12:00:00 PM	Elevation: 11.0	Total Well Depth: 47 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.01 ft
Physical Location: PBR Well P3B		Date Gauged: 9/17/2015

(Note: bgs = below ground surface)

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
45										
46		10	1	15-15-17-19 (32)	0.0	8	SP		UNDno, fine to medium SAND,(5YR 4/3) reddish brown,medium dense,wet,no odor,no staining.	
47		11					NR	NR	NO RECOVERY.	

End Cap (PVC sch 40)

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Comments: Steel Casing set @ 17.0'



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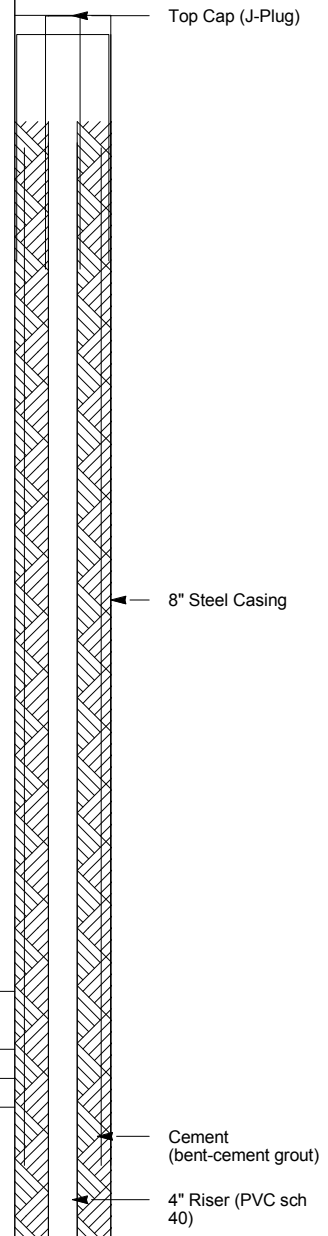
WELL ID 137-P3B-MW102I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508496
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 610954.2
Drilling Date: 8/26/2015 7:30:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682651.6
Well Completion Date: 9/11/2015 2:00:00 PM	Elevation: 11.1	Total Well Depth: 49 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.24 ft
Physical Location: PBR Well P3B		Date Gauged: 9/15/2015

(Note: bgs = below ground surface)

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DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
-5										
-4										
-3										
-2										
-1										
0					0.0	3	FILL		DGA(Ammended), fine to coarse SAND, and gravel, (10YR 4/2) dark grayish brown, dry to wet, no odor, no staining, wet @ 15.'	
1										
2										
3										
4										
5										
6										
7										
8	▼	1								
9										
10										
11										
12										
13										
14										
15										
16		2	1.5		0.0	3	FILL		DGA(Ammended), fine to coarse SAND, and gravel, (7.5YR 2.5/1) black, wet, no odor, no staining.	
17		3			0.0	3	FILL		DGA(Ammended), fine to coarse SAND, some gravel, (10YR 5/2) grayish brown, dense, moist, no odor, no staining.	
18		4			0.0	NR	NR		NO RECOVERY.	
19					0.0	9	OL		UNDorg SILT (80% organic silt, 20% organic fibers), (7.5YR 5/1) gray, low plasticity soft, slightly moist, no odor, no staining, (Based on 137-P3B-MW102S lithology).	
20										



Comments: Steel Casing set @ 18.0'



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 137-P3B-MW102I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508496
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 610954.2
Drilling Date: 8/26/2015 7:30:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682651.6
Well Completion Date: 9/11/2015 2:00:00 PM	Elevation: 11.1	Total Well Depth: 49 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.24 ft
Physical Location: PBR Well P3B		Date Gauged: 9/15/2015

(Note bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS - A.GDT - 12/3/15 17:23 - C:\USERS\IRVINGM\DOCUMENTS\WY EQUIS WORK\PPG_JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
20										
21										
22										
23										
24										
25										
26										
27										
28										
29		5								
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41		6	1		0.0	8	SP	UNDno, fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.		
42		7		25-18-25-19 (43)		8	SP		NO RECOVERY.	
43										
44										
45										

Annular seal (#00 Sand Seal)

Filter Pack (#1 Filter Pack)

4" 10 Slot Screen (PVC sch 40)

Comments: Steel Casing set @ 18.0'



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 137-P3B-MW102I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508496
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 610954.2
Drilling Date: 8/26/2015 7:30:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 682651.6
Well Completion Date: 9/11/2015 2:00:00 PM	Elevation: 11.1	Total Well Depth: 49 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.24 ft
Physical Location: PBR Well P3B		Date Gauged: 9/15/2015

(Note: bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS_A_GDT - 12/3/15 17:23 - C:\USERS\IRVINGM\DOCUMENTS\IMY EQUIS WORK\PPG_JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
45					0.0	8	SP	LITHOLOGY	UNDno, fine SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	
46		8	1	20-19-18-20 (37)	8	SP	NO RECOVERY.			
47		9								
48		10	2	19-20-27-23 (47)	0.0	8	SP		UNDno, fine to medium SAND, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	
49										

End Cap (PVC sch 40)

Comments: Steel Casing set @ 18.0'

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 61033.28125
Date Started Drilling: 7/15/2013 7:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683038.375
Date Finished Drilling: 7/15/2013 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - N16A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		FILL MATERIAL, with asphalt and coarse gravel, (7.5YR 3/1) very dark gray, non plastic, dense to medium dense, dry, no odor, no staining.	
		0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, loose, dry to moist, no odor, no staining.	
2-3	2	0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, medium dense to loose, dry to moist, no odor, no staining.	
		0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, medium dense to loose, dry to moist, no odor, no staining.	
4-5	1.5	0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, medium dense to loose, dry to moist, no odor, no staining.	
6		0.0		NR		NO RECOVERY	
7	2	0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, medium dense to loose, dry to moist, no odor, no staining.	
8-9	2	0.0	dry	FILL		COPR, with fine sand and silt, (5YR 4/3) reddish brown, non plastic, medium dense to loose, dry to moist, no odor, no staining.	
		0.0		FILL		GGM, with fine sand and trace fine gravel, (5GY 4/4) olive green, non plastic, loose, heavy chromium staining at 10'.	
10-11	2	0.0		FILL		GGM, with fine sand and trace fine gravel, (5GY 4/4) olive green, non plastic, loose, heavy chromium staining at 10'.	
		0.0		FILL		GGM, with fine sand and trace fine gravel, (5GY 4/4) olive green, non plastic, loose, heavy chromium staining at 10'.	
12	2	0.0		FILL		GGM, with fine sand and trace fine gravel, (5GY 4/4) olive green, non plastic, loose, heavy chromium staining at 10'.	
14		1.5	moist to wet	ML		UND, with SILT, and some wood fragments, (7.5YR 2.5/2) very dark brown, medium plasticity, medium stiff to stiff, moist to wet, moderate organic odor, no staining.	137-P3B-N16A-14.0-14.5
15	2	1.3	dry to moist	PT		Soils consistent with UNDorg.	137-P3B-N16A-14.5-15.0
						PEAT (degraded vegetated material), 75% wood fragments and 25% silt, (7.5YR 2.5/1) black, non plastic, soft to stiff, dry to moist, moderate organic odor, no staining. Soils consistent with MM.	137-P3B-N16A-15.0-15.5
16							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611042.9375
Date Started Drilling: 7/1/2013 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682909.25
Date Finished Drilling: 7/1/2013 2:40:00 AM	Core Size: 3 in	Boring Total Depth: 20.5 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - P20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0.5	0.0			1	CONCRETE		CONCRETE	
1	2	0.0	dry	1	CONCRETE		crushed CONCRETE	137-P3B-P20A-0.7-1.2
2		0.0		5	FILL		GGM, little fine sand, trace fine to medium gravel, (5GY 4/4) olive green, low plasticity, stiff, dry, no odor, green staining.	
3	2	0.0	dry	5	FILL		GGM, little fine sand, trace coal and fine to medium gravel, (5GY 4/4) olive green, low plasticity, stiff, dry, no odor, green staining.	137-P3B-P20A-2.7-3.2
4								
5	2	0.0	dry	5	FILL		GGM, little COPR and fine sand, trace coal and fine to medium gravel, (5GY 4/4) olive green, low plasticity, stiff, dry, no odor, green staining.	137-P3B-P20A-4.7-5.2
6								
7	1.6	0.0	dry	5	FILL		GGM, with cinders and coal, little coal and fine to medium gravel, (5GY 4/4) olive green, (5G /2) 4/2 grayish green, low plasticity, stiff, dry, no odor, green staining.	137-P3B-P20A-6.7-7.2
8								
9	2	0.0	slightly moist	5	FILL		GGM, with cinders and coal, little coal and fine to medium gravel, (5GY 4/4) olive green, (5G /2) 4/2 grayish green, low plasticity, stiff, dry, no odor, green staining.	137-P3B-P20A-8.7-9.2
10								
11	2	0.0	slightly moist	5	FILL		GGM, some fine to medium sand, trace COPR, (5G /2) 4/2 grayish green, low plasticity, stiff, slightly moist, no odor, green staining.	137-P3B-P20A-10.7-11.2
12								
13	2	0.0	slightly moist	5	FILL		GGM, with fine to medium sand and fine to medium gravel, (5Y 6/6) olive yellow, low plasticity, stiff, slightly moist, no odor, green staining.	137-P3B-P20A-12.7-13.2
14								
15	2	0.0	slightly moist	5	FILL		GGM, with fine sand, little fine gravel, (5Y 6/6) olive yellow, low plasticity, stiff, slightly moist, no odor, green staining.	137-P3B-P20A-14.7-15.2
16								
17	2	0.0	slightly moist	5	FILL		GGM, with fine sand, little fine gravel, (5Y 6/6) olive yellow, (5G /2) 4/2 grayish green, low plasticity, stiff, slightly moist, no odor, green staining.	137-P3B-P20A-16.7-17.2
18								
19	2	0.0	moist	6	FILL		SILT, some clay, trace coal, (7.5YR 3/2) dark brown, soft, stiff, moist, no odor, no staining, roots.	137-P3B-P20A-18.7-19.2
20		1.8	slightly moist	9	OL		UNDorg SILT, 90% organic silt, 10% organic fiber, (10YR 5/2) grayish brown, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	137-P3B-P20A-19.2-19.7

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610988.875
Date Started Drilling: 8/8/2013 5:50:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682802.125
Date Finished Drilling: 8/8/2013 7:00:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: DD-Bass		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
		0.0		CONCRETE		CONCRETE			
1	5	0.0	slightly moist	FILL		GGM, little ash, cinders, little fine sand, trace asphalt, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-P24A-0.5-1.0		
2							137-P3B-P24A-2.5-3.0		
3								137-P3B-P24A-4.5-5.0	
4									
5	5	0.0	moist	FILL		GGM, little fine to medium sand, little salt precipitate, low plasticity, soft to stiff, moist, no odor, green staining.	137-P3B-P24A-5.5-6.0		
6								137-P3B-P24A-6.5-7.0	
7								137-P3B-P24A-8.5-9.0	
8									
9	5	0.0	slightly moist	FILL		GGM, trace fine sand, (5GY 4/4) olive green, non plastic, stiff, slightly moist, no odor, green staining.	137-P3B-P24A-9.5-10.0		
10								137-P3B-P24A-10.5-11.0	
11								137-P3B-P24A-12.5-13.0	
12									
13	5	0.0	wet	FILL		GGM, little coarse gravel, little salt precipitate, (5GY 5/2) grayish green, non plastic, loose to soft, wet, no odor, green staining.	137-P3B-P24A-13.5-14.0		
14								137-P3B-P24A-14.5-15.0	
15									
16									
17	5	0.0	wet	FILL		medium to coarse SAND, with cinders, little coal ash, fine gravel, non plastic, dense, wet, no odor, no staining.	137-P3B-P24A-16.5-17.0		
18		0.0	dry	FILL				GGM, little fine sand, trace salt precipitate, (5GY 4/4) olive green, low plasticity, stiff, dry, no odor, green staining.	137-P3B-P24A-17.5-18.0
19									
20	1	0.0	dry	FILL		fine to medium SAND, some coal, little cinders, (5YR 4/3) reddish brown, non plastic, hard, dry, no odor, no staining.	137-P3B-P24A-19.0-19.5		
21		1.2	moist	OL				UNDorg SILT, 90% organic silt, 20% organic fibers, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	137-P3B-P24A-19.5-20.0
		1.6	moist	OL		UNDorg SILT, 90% organic silt, 20% organic fibers, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.			

PPG - PPG_LOGS_GDT - 10/1/13 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610921.375
Date Started Drilling: 7/11/2013 10:38:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682668.1875
Date Finished Drilling: 7/11/2013 11:30:00 AM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - P29A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	ASPHALT		ASPHALT	
		0.0		FILL		crushed GRAVEL, with fine to medium sand and some silt, (7.5YR 4/4) brown, non plastic, loose to medium dense, dry, slight HC odor, hydrocarbon staining, tar-like aromatic odor, similar to hydrocarbons.	
2		0.0	dry to moist	FILL		COPR, with fine sand and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, dry to moist, no odor, no staining.	
		0.0	moist	FILL		GGM, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining.	
3	2	0.0	dry to moist	FILL		COPR, with fine sand and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, dry to moist, no odor, no staining.	
		0.0	moist	FILL		COPR, with fine sand and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, dry to moist, no odor, no staining.	
4		0.0	dry to moist	FILL		GGM, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining.	
		0.0	moist	FILL		GGM, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining.	
5	2	0.0	moist	FILL		GGM, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining, ash material and white chromium precipitate at 4.0 - 6.0'	137-P3B-P29A-7.3-7.8
6		0.0	moist	FILL		GGM, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining, ash material and white chromium precipitate at 4.0 - 6.0'.	137-P3B-P29A-8.0-8.5
7	2	0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with ash and coarse gravel, (7.5YR 5/1) gray, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining, visible chromium staining throughout interval.	137-P3B-P29A-10.0-10.5
8		0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with ash and coarse gravel, (7.5YR 5/1) gray, (5GY 5/4) light olive green, non plastic, loose, moist, no odor, green staining, chromium staining stops at beginning of this interval.	137-P3B-P29A-12.0-12.5
9	2	0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with ash and cinders, trace ceramics and wood fibers, (7.5YR 4/1) dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-P29A-14.0-14.5
10		0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with ash and cinders, trace ceramics and glass fragments, (7.5YR 2.5/2) very dark brown, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-P29A-16.0-16.5
11	2	0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with ash and cinders, trace ceramics and glass fragments, (7.5YR 2.5/2) very dark brown, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-P29A-18.0-18.5
12		0.0	moist to wet	FILL		medium to coarse FILL MATERIAL, with fine to coarse gravel, some ash and cinders with fine to medium sand, (10YR 5/2) grayish brown, non plastic, loose to medium dense, moist to wet, no odor, no staining.	137-P3B-P29A-19.5-20.0
13	2	0.0	moist to wet	FILL		NO RECOVERY	137-P3B-P29A-20.0-20.5
14	1.4	0.0	moist to wet	MH		medium to coarse FILL MATERIAL, with fine to coarse gravel, some ash and cinders with fine to medium sand, (10YR 5/2) grayish brown, non plastic, loose to medium dense, moist to wet, no odor, no staining.	
15		0.0	moist to wet	NR		SILT, with wood fragments, (7.5YR 3/1) very dark gray, high plasticity, medium stiff to stiff, moist, no odor, no staining. Soils consistent with UNDno.	
16	2	0.3	moist	NR		NO RECOVERY	
17	1.6						
18							
19							
20							
21							
22							

PPG - PPG_LOGS_GDT - 8/6/13 09:24

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611123.5
Date Started Drilling: 6/27/2013 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682935.8125
Date Finished Drilling: 6/27/2013 2:10:00 PM	Core Size: 3 in	Boring Total Depth: 19 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - R18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	1	ASPHALT		ASPHALT	137-P3B-R18A-0.5-1.0
		0.0		3	FILL		crushed CONCRETE, with coarse gravel, (9.5/2.5Y_1) white, non plastic, loose to hard, dry, no odor, no staining.	
		0.0		3	FILL			
2	2	0.0	slightly moist	5	FILL		fine SAND, little fine gravel, trace silt, (10YR 5/6) yellowish brown, non plastic, loose, dry, no odor, slight green staining.	137-P3B-R18A-2.5-3.0
		0.0		5	FILL			
3	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-4.5-5.0
4	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-4.5-5.0
5	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-6.5-7.0
6	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-6.5-7.0
7	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-8.5-9.0
8	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-8.5-9.0
9	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little cinders, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-10.5-11.0
10	2	0.0	slightly moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-10.5-11.0
11	2	0.0	slightly moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-12.5-13.0
12	2	0.0	slightly moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-12.5-13.0X
13	2	0.0	slightly moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-12.5-13.0X
14	2	0.0	slightly moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, slightly moist, no odor, green staining.	137-P3B-R18A-14.5-15.0
15	2	0.0	moist	3	FILL		SILT, some wood fragments, little roots, trace clay, (7.5YR 2.5/2) very dark brown, medium plasticity, soft, moist, no odor, no staining.	137-P3B-R18A-14.5-15.0
		0.0		3	FILL			
16	1.2	0.0	moist	3	FILL		SILT, some roots, trace fill clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, no odor, no staining.	137-P3B-R18A-16.0-16.5
		0.0		9	FILL			
17	1.2	2.2	dry	7	PT		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	137-P3B-R18A-16.5-17.0
				NR	NR			
18	1	2.4	dry	7	PT		PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
19							NO RECOVERY	
							PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611083
Date Started Drilling: 8/7/2013 5:50:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682855.5
Date Finished Drilling: 8/7/2013 7:20:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: DD-Bass		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE	
2		0.0	slightly moist	FILL		GGM, little fine gravel, trace cinders, ash, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	137-P3B-R21A-0.5-1.0
3		0.0	dry	FILL		fine to medium SAND, some asphalt, some cinders, little gravel, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	137-P3B-R21A-2.5-3.0
4		0.0	slightly moist	FILL		GGM, little fine sand, trace cinders, ash, COPR, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	137-P3B-R21A-4.5-5.0
5	5	0.0	slightly moist	FILL		GGM, little fine sand, trace cinders, ash, COPR, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
6							137-P3B-R21A-6.5-7.0
7							
8							137-P3B-R21A-8.5-9.0
9	5	0.0	slightly moist	FILL		GGM, little fine sand, trace cinders, ash, COPR, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
10							137-P3B-R21A-10.5-11.0
11							
12							137-P3B-R21A-12.5-13.0
13	5	0.0	slightly moist	FILL		GGM, little fine sand, trace cinders, ash, COPR, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
14							137-P3B-R21A-14.5-15.0
15							
16							137-P3B-R21A-16.5-17.0
17	5	0.0	dry	FILL		fine to medium SAND, some fine gravel, trace silt, (5YR 4/3) reddish brown, non plastic, hard, dry, no odor, no staining.	
18		0.0	moist	FILL		SILT, some clay, trace fine sand, (7.5YR 2.5/1) black, low plasticity, soft, moist, no odor, no staining.	137-P3B-R21A-18.5-19.0
19		2.1	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	137-P3B-R21A-19.0-19.5
20							

PPG - PPG_LOGS.GDT - 10/1/13 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611145.3125
Date Started Drilling: 7/15/2013 11:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682917.375
Date Finished Drilling: 7/15/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - S18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	ASPHALT		ASPHALT	
		0.0		FILL		crushed well-graded GRAVEL, with trace fine sand, (7.5YR 3/1) very dark gray, non plastic loose, dry no odor no staining	
2	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
3		0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
4	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
5		0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
6	1	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
7				NR		NO RECOVERY	
8	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
9		0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
10	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
11		0.0	wet to saturated	FILL		FILL MATERIAL, with cinders, ash and fine to medium gravel with some fine to medium sand, (7.5YR 3/4) dark brown, non plastic, loose to medium dense, wet to saturated, no odor, green staining, chromium precipitate on ash and cinders.	
12	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
13		0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
14	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
15		0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
16	2	0.0	dry to moist	FILL		GGM, with trace fine sand, (5GY 4/4) olive green, non plastic, medium stiff, dry to moist, no odor, green staining, heavy chromium staining found throughout.	
17		0.3	slightly moist	ML		sandy SILT, with traces of wood fragments, (10YR 3/1) very dark gray, medium plasticity, stiff to medium stiff, slightly moist to moist, moderate organic odor.	
18	1.4	0.4	moist to wet	OL		UNDorg, 80% organic silt, 20% organic fibers, (5YR 4/1) dark gray, low plasticity, medium stiff to stiff, moist to wet, strong organic odor, no staining.	137-P3B-S18A-17.5-18.0
19				NR		NO RECOVERY	137-P3B-S18A-18.0-18.5
20							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611109.8125
Date Started Drilling: 8/8/2013 10:10:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682842
Date Finished Drilling: 8/8/2013 11:30:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: DD-Bass		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0-1		0.0		CONCRETE		CONCRETE	
1-2	5	0.0	saturated	FILL		GGM, trace fine sand, trace coal, (5GY 4/4) olive green, low plasticity, soft to stiff, saturated, no odor, green staining.	137-P3B-S21A-0.5-1.0
2-3							137-P3B-S21A-2.5-3.0
3-4							137-P3B-S21A-4.5-5.0
4-5	5	0.0	saturated	FILL		GGM, trace fine sand, trace COPR, coal, (5GY 4/4) olive green, low plasticity, soft to stiff, saturated, no odor, green staining.	137-P3B-S21A-5.5-6.0
5-6							137-P3B-S21A-6.5-7.0
6-7							137-P3B-S21A-8.5-9.0
7-8	5	0.0	saturated	FILL		GGM, trace fine sand, trace coal, (5GY 4/4) olive green, low plasticity, soft to stiff, saturated, no odor, green staining.	137-P3B-S21A-9.5-10.0
8-9							137-P3B-S21A-10.5-11.0
9-10							137-P3B-S21A-12.5-13.0
10-11	5	0.0	wet	FILL		GGM, with cinders, little ash, (5GY 4/4) olive green, non plastic, loose soft, wet, no odor, green staining.	137-P3B-S21A-13.5-14.0
11-12		0.0	wet	FILL			137-P3B-S21A-14.5-15.0
12-13							137-P3B-S21A-16.5-17.0
13-14	5	0.0	dry	FILL		fine to medium SAND, little coal, little silt, (5YR 4/3) reddish brown, non plastic, hard, dry, no odor, no staining.	137-P3B-S21A-17.5-18.0
14-15		0.9	moist	OL			137-P3B-S21A-18.5-19.0
15-16							137-P3B-S21A-19.0-19.5
16-17						UNDorg SILT, 90% organic silt, 10% organic fibers, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS.GDT - 10/11/13 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610974.75
Date Started Drilling: 7/3/2013 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682574.125
Date Finished Drilling: 7/3/2013 10:35:00 AM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - S31A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0.3	0.0		ASPHALT		ASPHALT, with coarse gravel	
	0.4	0.0	moist	FILL		fine to medium SAND, trace silt and fine to medium gravel, (7.5YR 4/1) dark gray, non plastic dense, moist no odor no staining	
2	0	0.0	moist	FILL		COPR, with silt and fine sand, (5YR 3/4) dark reddish brown, non plastic soft, moist no odor no staining	
	0.6	0.0		FILL		NO RECOVERY	
3	1.1	0.0	dry to moist	FILL		COPR, with fine sand and fine gravel, (5YR 4/3) reddish brown, non plastic loose to soft, dry to moist no odor no staining	
	0	0.0	moist	FILL		crushed COPR, and silt, (5YR 3/2) dark reddish brown, non plastic soft, moist no staining, petroleum-like odor	
4	0.8	0.0	wet	FILL		NO RECOVERY	
	0.5	0.0		FILL		ASH, with silt and fine sand, (7.5YR 4/1) dark gray, non plastic loose, wet no staining, petroleum-like odor	
5	0.3	0.0	moist	FILL		medium to coarse SAND, and cinders some coal, (10YR 4/2) dark grayish brown, non plastic loose, moist no staining, petroleum-like odor	
	0	0.0	dry	FILL		fine to medium SAND, with fine gravel, (10YR 5/4) yellowish brown, non plastic loose, dry, petroleum-like odor	
6	2	0.0	wet	FILL		NO RECOVERY	
		0.0		FILL		ASH, with fine sand and ceramics, (7.5YR 5/1) gray, non plastic loose, wet no staining, petroleum-like odor	
9	1.5	15.6	wet	FILL		ASH, with fine sand and ceramics, with wood fragments, (7.5YR 5/1) gray, non plastic, loose, wet, no staining, petroleum-like odor.	
		11.3	moist	FILL		petroleum-like odor.	
10		10.2	moist	FILL		ASH, with fine sand and ceramics, with wood fragments, (7.5YR 5/1) gray, non plastic, loose, wet, no staining, petroleum-like odor.	
		0.0	moist	NR		petroleum-like odor.	
11	1.5			FILL		silty SAND, with ceramics and wood fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, sheen, petroleum-like odor.	
				NR		SILT, with fine to medium gravel and fill material, (7.5YR 2.5/1) black, non plastic, soft, moist, sheen, petroleum-like odor.	
13	2	0.0	moist to wet	FILL		NO RECOVERY	
		0.0	moist	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
14				FILL		NO RECOVERY	
	2	0.0	moist	FILL		fine to medium GRAVEL, with glass fragments, little fine sand, (7.5YR 2.5/1) black, non plastic, loose, moist to wet, no odor, no staining.	
16		0.0	moist	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
	2	0.0	moist to wet	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
17		0.0	moist to wet	FILL		fine to medium SAND, with GGM and fine gravel, (7.5YR 3/1) very dark gray, (10Y 4/4) olive, non plastic, loose, moist, no odor, green staining.	
	2	0.0	moist	FILL		GGM, with fine sand, (10Y 5/4) light olive, non plastic, soft to hard, moist to wet, no odor, green staining.	
19				FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
	2	0.0	slightly moist	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
20		0.0	moist	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
	2	0.0	moist to wet	FILL		ASH, with fine to medium gravel and ceramics, wood fragments and fine to medium sand, (5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
21		0.0	moist to wet	FILL		fine to medium SAND, with GGM and fine gravel, (7.5YR 3/1) very dark gray, (10Y 4/4) olive, non plastic, loose, moist, no odor, green staining.	
	2	1.3	moist	PT		GGM, little fine sand trace calcium leachate, (5GY 5/4) light olive green, low plasticity, stiff, slightly moist, no odor, green staining.	137-P3B-S31A-20.7-21.2
22			moist			GGM, little fine sand, (5GY 4/4) olive green, non plastic, soft, moist, no odor, green staining.	
			moist			ASH, with fine to medium sand and fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor,	137-P3B-S31A-21.2-21.7

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610974.75
Date Started Drilling: 7/3/2013 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682574.125
Date Finished Drilling: 7/3/2013 10:35:00 AM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - S31A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
						<div style="border: 1px solid black; padding: 5px;"> no staining. SILT, with wood fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM. </div>	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611212.1875
Date Started Drilling: 7/12/2013 8:23:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682850.0625
Date Finished Drilling: 7/12/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - V19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	ASPHALT		ASPHALT, some fine sand and trace glass fragments and silt, (7.5YR 4/2) brown (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL			
		0.0	dry	FILL			
		0.0	dry	FILL			
2					crushed GRAVEL, some fine sand and trace glass fragments and silt, (7.5YR 4/2) brown (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.		
3	2	0.0	dry	FILL		SILT, with fine to medium gravel, and sand, trace COPR, (2.5YR 2.5/4) dark reddish brown, non plastic, loose to medium dense, dry, no odor, no staining.	
4							
5	2	0.0	dry	FILL			
6							
7	2	0.0	dry	FILL		GGM, trace gravel, (5GY 4/4) olive green, non plastic, loose, dry, no odor, green staining, heavy chromium staining at 4.5'.	
8							
9	2	0.0	dry	FILL			
10							
11	2	0.0	dry	FILL		GGM, trace gravel, (5GY 4/4) olive green, non plastic, loose, dry, no odor, green staining.	
12							
13	1.5	0.0	slightly moist	FILL			
14							
15	2	0.0	dry	FILL		WEATHERED BRICK, with GGM, (5R 5/6) red, (5GY 4/4) olive green, non plastic, soft, slightly moist, no odor, no staining, heavy chromium staining.	
16							
17	1.1	0.0	slightly moist	FILL			
18							
19	2	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, trace coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	
20							
21	1.5	0.0	slightly moist	FILL			
22							
23	2	0.0	dry	FILL		GGM, trace sand, (5GY 5/2) grayish green, non plastic, loose, slightly moist, no odor, no staining.	
24							
25	1.1	0.0	dry	FILL			
26							
27	2	0.0	dry	FILL		GGM, trace sand, (5GY 4/4) olive green, non plastic, loose, dry, no odor, green staining at 15.2 ft, trace COPR throughout.	
28							
29	1.1	0.0	dry	FILL			
30							
31	2	0.7	moist	NR		COPR, trace sand, (2.5YR 4/1) dark reddish gray, non plastic, loose, dry, no odor, no staining.	
32							
33	2	0.7	moist	FILL			
34							
35	2	1.6	moist	MH		NO RECOVERY	137-P3B-V19A-18.5-19.0
36							
37	2	2.9	moist	PT			
38							
39	2	0.7	moist	FILL		SILT, some roots, little wood fragments, (7.5YR 2.5/3) very dark brown, low plasticity, very soft to medium stiff, moist to saturated, moderate organic odor.	
40							
41	2	0.7	moist	FILL			
42							
43	2	0.7	moist	FILL		PEAT (degraded vegetated material), with 85% woody fibers and 15% silt, (7.5YR 2.5/2) very dark brown (10YR 2/1) black, non plastic medium dense to dense, moist to wet, strong organic odor. Soils consistent with MM.	
44							
45	2	0.7	moist	FILL			
46							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611194.875
Date Started Drilling: 7/16/2013 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682758.1875
Date Finished Drilling: 7/16/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 19 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - W22A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	2	0.0	moist	CONCRETE		crushed CONCRETE, and coarse gravel, (7.5YR 5/1) gray, non plastic, loose to hard, moist.	
		0.0	slightly moist	FILL			COPR, some silt, little fine to medium sand, (5YR 4/6) yellowish red, non plastic, loose to soft, slightly moist, no odor, no staining.
2	1.8	0.0	slightly moist	FILL		GGM, some silt, little fine to medium sand, GGM, (5YR 4/6) yellowish red, non plastic, loose to soft, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
3	2	0.0	slightly moist	NR		GGM, little COPR trace salt precipitate, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			NO RECOVERY
4	2	0.0	slightly moist	FILL		GGM, some COPR, little cinders, trace salt precipitate, (5YR 5/2) reddish gray, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
5	2	0.0	slightly moist	FILL		GGM, little salt precipitate, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
6	2	0.0	slightly moist	FILL		GGM, with COPR, little cinders, trace salt precipitate, (5YR 5/2) reddish gray, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
7	2	0.0	slightly moist	FILL		ASH, with cinders, coal, some GGM, (5GY 3/2) very dark grayish green, non plastic, loose, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
8	2	0.0	slightly moist	FILL		GGM, some cinders, little COPR, trace salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
9	2	0.0	slightly moist	FILL		GGM, little fine sand, (5GY 4/4) olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
10	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
11	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
12	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
13	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
14	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
15	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
16	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
17	2	0.0	slightly moist	FILL		GGM, little fine sand little ash, salt precipitate, (5GY 5/2) grayish green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
		0.0	slightly moist	FILL			
18	1	1.3	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/2) very dark brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	137-P3B-W22A-17.0-17.5
		3.1	dry	PT			137-P3B-W22A-17.5-18.0
19	1	2.4	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry to moist, strong organic odor, no staining. Soils consistent with MM.	137-P3B-W22A-18.0-18.5
							PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry to moist, strong organic odor, no staining. Soils consistent with MM.

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610978.338
Date Started Drilling: 5/23/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682980.614
Date Finished Drilling: 5/23/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 3/20.5 ft
Physical Location: Driveway of Site 132		

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	moist	2	Fill		ASPHALT (4 in) and Brown (7.5YR 4/3) SILT and coarse Sand, some medium angular Gravel and Slag, loose. No odor.	
2		0	moist	4B	Fill		Dark Brown (7.5YR 3/2) SILT, some Brick, little fine and coarse Sand (25% COPR), trace Fill Material (ceramics, wood, ash), loose. No odor.	EF-B56_2.5
3		0						
4		0	wet	4B	Fill		Dark Brown (7.5YR 3/2) to Dark Reddish Brown (2.5YR 3/4) SILT and medium to coarse SAND (75% COPR), little fine rounded Gravel, trace Lime Green staining, loose. No odor.	
5		0						
6		0						
7	2.9	0						
8			moist	3	Fill		Light Reddish Brown (2.5YR 7/3) to Very Dark Gray (7.5YR 3/1) SILT, some medium Sand, soft. No odor.	EF-B56_7.5
9			moist	3	Fill		No Recovery	
10		0						
11		0	wet	5	Fill		Greenish Gray (Gley 6/1) and Lime Green-stained SILT (100% GGM), trace calcifications, chalky texture, soft. Chemical odor.	
12		0						EF-B56_12.0
13	3.7	0						
14			moist	14	Canal Bottom		Black-stained CLAY (Canal Bottom), little-trace Silt, trace organics, cohesive, soft to medium stiff. Coal tar odor.	
15			moist	7	PT		Dark Brown (7.5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive. No odor.	
16			moist	7	PT		No Recovery	
17	0						15-20 interval: No Recovery - Sleeve filled with fall-in	
18								
19								
20		0						
21		0	moist	9	OH		Dark Gray (5Y 4/1) CLAY, some Silt, trace organics, medium stiff. No odor.	EF-B56_21.0
22			wet	10	SP-SM		Weak Red (10YR 4/3) fine to medium SAND, little Silt, trace coarse Sand, loose. No odor.	
23	2			10	SP-SM		No Recovery	
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: COPR identified from 0.8-6.7 ft bgs. GGM identified from 10.0-12.6 ft bgs.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610999.128
Date Started Drilling: 6/2/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683016.955
Date Finished Drilling: 6/2/2011	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: A. Salazar, B.Daniels	Project Manager: Robert Cataldo	Depth to Water: 5.0 ft
Physical Location: Driveway of Site 132.		






(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2	Fill		Black Asphalt	
2		0	dry	4B	Fill		Dark Brown (7.5YR 3/3) fine to medium SAND, some subangular to angular Gravel (<5% COPR) and Brick, trace Silt and Fill (slag, glass), loose. No odor.	
3		0.3	moist	3	Fill		Very Dark Brown (10YR 2/2) fine to medium Silty SAND, some Fill (slag, glass, brick, rubber), loose. No odor.	
4		0						
5		0	moist	1	Fill		Concrete - Airknife refusal	EF-B61_4.5
6	3.3		wet	4B	Fill		Dark Reddish Brown (2.5YR 3/3) fine to coarse Gravelly SAND (COPR 80%), little crushed Fill, loose. No odor.	EF-B61_6.0
7								
8			wet	5	Fill		Pale Olive (10YR 6/4) GGM (80%), texture of fine to coarse Sand and little fine to medium angular Gravel, medium dense. Slight metallic odor.	EF-B61_7.5 EF-B61_8.0
9		0						
10								EF-B61_10.0
11	5							
12								
13			wet	3	Fill		Dark Olive Brown (2.5YR 2.5/1) fine to medium SAND, some Silt, little fine to medium angular Gravel, medium dense. No odor	EF-B61_12.0 EF-B61_12.5
14		0	wet	12	Canal Bottom		Black (5YR/2.5/1) CLAY, stiff. Organic odor. (Canal Bottom)	EF-B61_14.0
15			moist	7	PT		Black PEAT, Organics, little Silty Clay, medium stiff. Sulfur odor.	
16	3							
17								
18								
19			moist	7	PT		No Recovery	EF-B61_17.5
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: COPR identified from 0.5-1.0 and 5.0-7.5 ft bgs, GGM identified from 7.5-12.5 ft bgs.

Client: PPG Industries	BORING ID: OSB-14	
Site: Site 133		
Start Date: 9/28/2006	Project: Site Investigation	Page: 1 of 3
End Date: 9/28/2006	Coordinates: X-611022.5 Y-682998.5	Depth of Boring: 30.00
	Elevation: 14.75	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Asphalt	0.0		
		FILL: Grayish brown (2.5Y5/2) coarse SAND and coarse to medium GRAVEL, some to little Silt, moist.		OSB-14A(0.4-0.9)	Cr+6, TAL Metals
2		FILL: Dark reddish brown (5YR3/3) coarse to medium SAND, some Silt, little medium to fine Gravel, wet. 85% COPR.		OSB-14B(2.0-2.5)	Cr+6, TAL Metals
		NR: No Recovery			
4		FILL: Dark reddish brown (5YR3/3) coarse to medium SAND, some Silt, little medium to fine Gravel, wet. 85% COPR.	0.0	OSB-14C(4.0-4.5)	Cr+6, TAL Metals
		NR: No Recovery			
8		FILL: Olive Yellow (5Y6/6) coarse to medium SAND and fine GRAVEL, some Silt, trace Clay(-), wet.	0.0	OSB-14D(8.0-8.5)	Cr+6, TAL Metals
10					

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Start Date:
9/28/2006


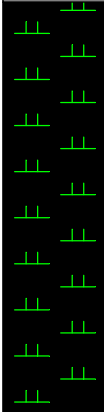

Project: **Site Investigation**
Coordinates: X-611022.5 Y-682998.5

Page: 2 of 3
Depth of Boring: 30.00

End Date:
9/28/2006

Elevation: 14.75
Drill Subcontractor:

Geologist: M. Abdelaziz
Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12			0.0	OSB-14E(12.0-12.5)	Cr+6, TAL Metals
14					
16		PEAT: PEAT.	14.7	OSB-14F(16.0-16.5)	Cr+6, TAL Metals
18					
20		NR: No Recovery	7.1		
		PEAT: PEAT.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID: OSB-14	
Site: Site 133		
Start Date: 9/28/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611022.5 Y-682998.5	Depth of Boring: 30.00
End Date: 9/28/2006	Elevation: 14.75	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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22		SILTY CLAY: Black (7.5YR2.5/1) SILTY CLAY, some fine to very fine Sand, wet to moist.			
		SAND: Black (7.5YR2.5/1) fine to very fine SAND, some Silt, little Clay and medium Sand, wet.			
		NR: No Recovery			
24		SAND: Dark reddish brown (5YR3/3) coarse to medium SAND, some fine Sand and Silt, wet.	0.0		
		NR: No Recovery			
28		SAND: Dark reddish brown (5YR3/3) coarse to medium SAND, some fine Sand and Silt, wet.	0.0		
30		NULL: End of boring at 30 feet.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Start Date:
9/28/2006

Project: **Site Investigation**
Coordinates: X-611131.1 Y-682870.5

Page: 1 of 3
Depth of Boring: 28.00

End Date:
9/28/2006

Elevation: 14.91
Drill Subcontractor:




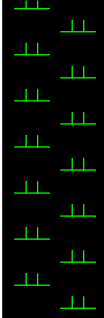
Geologist: M. Abdelaziz
Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		CONCRETE: Concrete, yellowish staining. 90% COPR.	0.0		
		FILL: Pale olive (5Y6/4) coarse to medium SAND, some Silt, trace medium to fine Gravel, moist.		OSB-18A(0.4-0.9)	Cr+6, TAL Metals
2					
4		FILL: Pale olive (5Y6/4) coarse to medium SAND, some Silt, trace medium to fine Gravel, wet.	0.0	OSB-18B(4.0-4.5)	Cr+6, TAL Metals
6					
8		FILL: Pale olive (5Y6/4) fine to very fine SAND, some Silt and Clay, trace medium Sand, wet.	0.0	OSB-18C(6.0-6.5)	Cr+6, TAL Metals
10					
				OSB-18D(10.0-10.5)	Cr+6, TAL Metals

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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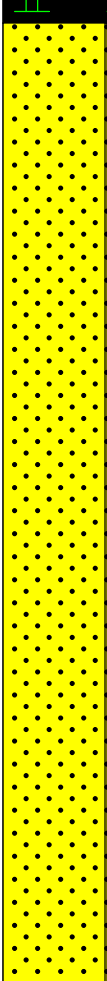
Client: PPG Industries	BORING ID:	
Site: Site 133	OSB-18	
Start Date: 9/28/2006	Project: Site Investigation	Page: 2 of 3
End Date: 9/28/2006	Coordinates: X-611131.1 Y-682870.5	Depth of Boring: 28.00
	Elevation: 14.91	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12			0.0		
14		FILL: Reddish brown (5YR4/3) coarse SAND and fine GRAVEL, some medium Sand, trace Silt, wet.		OSB-18E(13.0-13.5)	Cr+6, TAL Metals
16		FILL: Pale olive (5Y6/4) medium to fine SAND, some Silt, trace Clay(-), wet.	9.1	OSB-18F(15.5-16.0)	Cr+6, TAL Metals
18		PEAT: PEAT.		OSB-18G(18.5-19.0)	Cr+6, TAL Metals
20			N/A		

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Client: PPG Industries	BORING ID:	
Site: Site 133	OSB-18	
Start Date: 9/28/2006	Project: Site Investigation	Page: 3 of 3
End Date: 9/28/2006	Coordinates: X-611131.1 Y-682870.5	Depth of Boring: 28.00
	Elevation: 14.91	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
22		SAND: Black (2.5Y2.5/1) fine to very fine SAND, some Silt, trace Clay, wet.	N/A	OSB-18H(21.0-21.5)	Cr+6, TAL Metals
24				OSB-18I(25.0-25.5)	Cr+6, TAL Metals
26				OSB-18J(27.5-28.0)	Cr+6, TAL Metals
28					

NULL: End of boring at 28 feet.

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Start Date:
9/28/2006









Project: **Site Investigation**
Coordinates: X-611200.8 Y-682784.6

Page: 1 of 3
Depth of Boring: 30.00

End Date:
9/28/2006

Elevation: 13.48
Drill Subcontractor:

Geologist: M. Abdelaziz
Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		CONCRETE: Concrete	0.3		
		FILL: Dark reddish brown (2.5YR3/4) coarse to medium SAND, some fine Gravel, little to trace Silt, moist. 80% COPR.		OSB-20A(0.4-1.0)	MS/MSD, Cr+6, TAL Metals
		FILL: Greenish gray (gley16/1) SILTY SAND, some medium Sand and very fine Gravel, moist.		OSB-20B(1.0-1.5) OSB-20BD(1.0-1.5)	Cr+6, TAL Metals Cr+6, TAL Metals
2					
		FILL: Light brown (7.5YR6/3) coarse to medium SAND, some Silt and very fine Gravel, moist to wet.	0.0		
4				OSB-20C(5.0-5.5)	Cr+6, TAL Metals
		FILL: Light brown (7.5YR6/3) CLAYEY SILT, some medium to fine Sand, trace of greenish gray (gley16/1) coarse Sand, wet.	0.0		
6				OSB-20D(9.0-9.5)	Cr+6, TAL Metals
8					
10					

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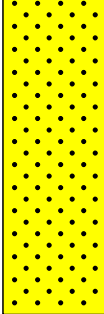
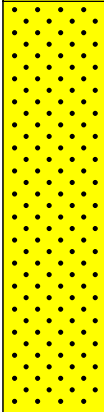
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		FILL: Gray (2.5Y6/1) coarse SAND and fine GRAVEL, little Silt, trace medium Sand, wet.	0.0		
14		NR: No Recovery		OSB-20E(13.5-14.0)	Cr+6, TAL Metals
16		FILL: Gray (2.5Y6/1) coarse SAND and fine GRAVEL, little Silt, trace medium Sand, wet.	45.6		
18		FILL: Gray (7.5YR6/1) SILTY CLAY, some fine Sand, trace medium Sand, wet.			
18		PEAT: PEAT, wet.		OSB-20F(17.9-18.4)	Cr+6, TAL Metals
20			163.0		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID: OSB-20	
Site: Site 133		
Start Date: 9/28/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611200.8 Y-682784.6	Depth of Boring: 30.00
End Date: 9/28/2006	Elevation: 13.48	Geologist: M. Abdelaziz
	Drill Subcontractor:	Driller: TPI

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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22		SAND: Dark gray (gley14/1) fine to very fine SAND, some Silt, little Clay, wet.	6.4		
24		SAND: Gray (gley16/1) coarse to medium SAND, some fine Gravel and Silt, little to trace fine Sand, wet.			
26					
28		NR: No Recovery	N/A		
30					
		NULL: End of boring at 30 feet.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611010
Date Started Drilling: 3/7/2014 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683048
Date Finished Drilling: 3/7/2014 10:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 25 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: M16A - Carteret Ave.		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID					
1	5	0.0	slightly moist	1	FILL		ASPHALT fine to medium SAND, some fine to medium gravel, (7.5YR 2.5/3) very dark brown, loose, slightly moist, no odor, no staining.						
		0.0		3	FILL								
		0.0		4B	FILL								
2	5	0.0	slightly moist	4A	FILL		fine to medium SAND, some COPR, little ash, cinders, (5YR 4/3) reddish brown, loose, moist, no odor, no staining.						
3		5		0.0	4A				FILL	COPR, little fine to medium sand, (2.5YR 4/6) red, loose to hard, slightly moist, no odor, no staining.			
4				0.0	4A				FILL				
5	5	0.0	slightly moist	4A	FILL		COPR, little fine to medium sand, (2.5YR 4/6) red, loose to hard, slightly moist, no odor, no staining.						
6		0.0	moist	4A	FILL				COPR, some GGM, (2.5YR 4/6) red, dense, moist, no odor, green staining.				
7		0.0	moist	5	FILL								
8	5	0.0	moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, moist to wet, no odor, green staining.						
9		5							0.0	moist	5	FILL	GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, moist to wet, no odor, green staining.
10									0.0				
11	5	0.0	moist	5	FILL		GGM, some fine sand, (5GY 4/4) olive green, low plasticity, soft, moist to wet, no odor, green staining.						
12		5							0.0	moist	3	FILL	CLAY, some silt, (7.5YR 2.5/1) black, medium plasticity, soft, moist, no odor, no staining.
13									0.0				
14	5	0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.						
15		0.0							slightly moist	7	PT	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	
16		0.0							slightly moist	9	OL		
17	5	0.0	slightly moist	9	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	P4-M16A-16.0-16.5					
18		0.0							slightly moist	9	OL	UNDorg, 80% organic silt 20%, organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
19		0.0							slightly moist	9	OL		
20	5	0.0	moist	8	SM		UNDno SILT, little organics, (10YR 4/1) dark gray, low plasticity, soft to stiff, moist, no odor, no staining. Soils consistent with UNDno.	P4-M16A-20.0-20.5					
21		5							0.0	moist	8	SM	UNDno fine SAND, some silt, trace fine gravel, (10YR 6/1) gray, moist, no odor, no staining. Soils consistent with UNDno.
22									0.0				
23	5	0.0	slightly moist	8	SM		UNDno fine to coarse SAND, some fine to coarse gravel, (2.5YR 5/8) red, loose to hard, slightly moist, no odor, no staining. Soils consistent with UNDno.						
24		5							0.0	slightly moist	8	SM	UNDno fine to coarse SAND, some fine to coarse gravel, (2.5YR 5/8) red, loose to hard, slightly moist, no odor, no staining. Soils consistent with UNDno.
25									0.0				

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611094
Date Started Drilling: 3/6/2014 12:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682971
Date Finished Drilling: 3/6/2014 1:21:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Q17A - Carteret Ave.		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		2	ASPHALT		ASPHALT	
1	5	0.0	moist tp wet	3	FILL		fine to medium silty SAND, some gravel, some cinders, little GGM, (10YR 4/2) dark grayish brown, non plastic, dense, moist to wet.	
2								
3		0.0	wet	5	FILL		GGM, trace gravel, (5Y 6/3) pale olive, non plastic, medium dense, wet.	
4								
5	5	0.0	wet	5	FILL		GGM, (5Y 5/2) olive gray, non plastic, medium dense, wet.	
6								
7								
8								
9								
10	5	0.0	wet	5	FILL		GGM, little COPR, (2.5Y 5/2) grayish brown, non plastic, dense, wet.	
11								
12								
13								
14								
15	5	0.0	wet	5	FILL		GGM, (10YR 5/2) grayish brown, non plastic, dense, wet.	
16								
17		0.0	moist	5	FILL		GGM, some silt little fine sand, (7.5YR 3/3) dark brown, non plastic, dense, moist.	
18								
19		0.0	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, medium plasticity, soft, moist, strong sulfur odor. Soils consistent with MM.	P4-Q17A-18.5-19.0
20	5	0.0	moist	7	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/1) dark gray, high plasticity, soft, moist, strong sulfur odor. Soils consistent with MM.	P4-Q17A-20.0-20.5
21								
22								
23		0.0	moist	8	SP-SM		fine to medium silty SAND, some gravel, (10YR 4/1) dark gray, non plastic, very dense, moist. Soils consistent with UNDno.	
24								
25								

PPG - PPG_LOGS.GDT - 4/22/14 17:38

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611159
Date Started Drilling: 3/6/2014 11:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682904
Date Finished Drilling: 3/6/2014 12:00:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: A. Bogucki	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: T18A - Carteret Ave.		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
1	5	0.0		2	ASPHALT		ASPHALT			
1		0.0	dry to sl	3	FILL		fine to medium silty SAND, some gravel, (10YR 4/2) dark grayish brown, non plastic, dense, dry to slightly moist. GGM, little COPR, (5Y 6/3) pale olive, non plastic, soft, moist to wet.			
2		0.0	moist to wet	5	FILL					
3										
5	5	0.0	wet	5	FILL		GGM, little COPR trace glass, (5GY 6/2) light grayish green, non plastic, medium dense, wet.			
6										
7										
10	5	0.0	wet	5	FILL		fine to medium GRAVEL, some GGM, (10YR 5/4) yellowish brown, non plastic, medium dense, wet.			
11		0.0	wet	5	FILL			GGM, (5Y 6/2) light olive gray, non plastic, medium dense, wet.		
12										
15	5	0.0	wet	5	FILL		GGM, some sand, (10YR 4/6) dark yellowish brown, non plastic, medium dense, wet.			
16		0.0	moist	7	PT				PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	P4-T18A-16.0-16.5
17										
18							P4-T18A-18.0-18.5			
20	5	0.0	moist	7	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	P4-T18A-20.0-20.5		
21		0.0	wet	8	SP-SM					fine silty SAND, (10YR 5/1) gray, non plastic, medium dense, wet. Soils consistent with UNDno.
22										
24		0.0	moist	10	SP-SM		fine to medium silty SAND, some gravel, (5YR 4/2) dark reddish gray, non plastic, dense, moist. Soils consistent with UNDno.			
25										

PPG - PPG_LOGS.GDT - 4/22/14 17:38

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

LOG OF SOIL BORING SB-39

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 14.82		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/21/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		COMPLETION DEPTH (FT BGS) 48		ROCK DEPTH (FT) not encountered	
SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 22		DIST. 2.5	
CASING N/A		WATER DEPTH 2.5		UNDIST. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		CORE N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 59 ft behind curb on west side of Carteret Avenue, 300 ft NW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS	
			Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of reddish brown sand, chromate ore processing residue (COPR), including reddish ore pellets	- 0 -												
	- 1 -												
	- 2 -												
	- 3 -												
4.0-6.5 FILL: greenish grayish silt, suspected COPR	- 4 -		1	1.8	3	1436	0.0	0.0	1436	N/A	N/A		
	- 5 -				5		0.0	0.0					
	- 6 -				6		0.0	0.0					
	- 7 -				4		0.0	0.0					
6.5-16.4 FILL: Reddish gray silt, with greenish gray COPR interspersed	- 8 -		2	1.5	3	1437	0.0	0.0	1437	N/A	N/A		
	- 9 -				4		0.0	0.0					
	- 10 -				4		0.0	0.0					
	- 11 -				4		0.0	0.0					
	- 12 -		3	2.0	2	1446	0.0	0.0	1446	N/A	N/A		
	- 13 -				2		0.0	0.0					
	- 14 -				1		0.0	0.0					
	- 15 -				1		0.0	0.0					

LOG OF SOIL BORING SB-39

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 14.82		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/21/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
COMPLETION DEPTH (FT BGS) 48		NO. SAMPLES 22		DIST. 2.5	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		UNDIST. N/A	
CASING N/A		WATER DEPTH 2.5		CORE N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		COMPL. N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 59 ft behind curb on west side of Carteret Avenue, 300 ft NW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BU/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
6.5-16.4 FILL: Reddish gray silt, with greenish gray COPR interspersed	- 10 -		4	1.3	0.5	1450	0.0	0.0	1450	N/A	N/A	Fishy, ammonia-like odors through out
	- -				0.5	0.0	0.0					
	- 11 -				0.5	0.0	0.0					
	- -				0.5	0.0	0.0					
16.4-16.6 Brown organic matter, with black staining	- 12 -		5	1.8	1	1453	0.0	0.0	1453	N/A	N/A	Fishy, ammonia-like odors through out
	- -				1	0.0	0.0					
	- 13 -				1	0.0	0.0					
	- -				2	0.0	0.0					
16.6-24.0 Very dark greenish gray (GLE1 3/1 10Y) organic CLAY (OH), 1% peat fibers	- 14 -		6	1.6	3	1503	1.4	0.0	1503	N/A	N/A	Sample SB-39(16.5-17.0) collected at 1514 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN Anaerobic, swampy odors
	- -				4	1.0	0.0					
	- 15 -				2	2.0	0.0					
	- -				1							
16.6-24.0 Very dark greenish gray (GLE1 3/1 10Y) organic CLAY (OH), 1% peat fibers	- 16 -		7	1.1	1	1520	1.2	0.0	1520	N/A	N/A	Anaerobic, swampy odors
	- -				6	4.3	0.0					
	- 17 -				3	3.9	0.0					
	- -				2							
16.6-24.0 Very dark greenish gray (GLE1 3/1 10Y) organic CLAY (OH), 1% peat fibers	- 18 -		8	1.8	1	1523	7.4	0.0	1523	N/A	N/A	Anaerobic, swampy odors
	- -				1	8.3	0.0					
	- 19 -				1	13.4	0.0					
	- -				1	13.7	0.0					
	- 20 -											

LOG OF SOIL BORING SB-39

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 14.82		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE STARTED 11/20/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		COMPLETION DEPTH (FT BGS) 48		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 22	
CASING N/A		WATER DEPTH 2.5		DIST. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		UNDIST. N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 59 ft behind curb on west side of Carteret Avenue, 300 ft NW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
16.6-24.0 Very dark greenish gray (GLE Y1 3/1 10Y) organic CLAY (OH), 1% peat fibers	- 20 -		9	1.4	1	1531	8.8	0.0	1531	N/A	N/A	Anaerobic, swampy odors
	- 21 -				1		9.9	0.0				
	- 21 -				1		3.9	0.0				
	- 22 -				1							
24.0-25.1 Dark greenish gray (GLE Y1 4/1 5G) fine SANDY SILT (ML), very tight	- 22 -		10	1.5	1	1536	2.6	0.0	1536	N/A	N/A	No odors this spoon
	- 23 -				1		0.0	0.0				
	- 23 -				1		0.0	0.0				
25.1-26.4 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace fine gravel, 1/4" well rounded	- 24 -		11	1.4	2	1543	0.7	0.0	1543	N/A	N/A	No odors this spoon
	- 25 -				3		2.4	0.0				
	- 25 -				3		0.8	0.0				
26.4-26.8 Grayish red (2.5YR4/4) fine to medium SILTY SAND (SM)	- 26 -		12	1.2	3	1545	0.0	0.0	1545	N/A	N/A	No odors this spoon
	- 27 -				4		0.0	0.0				
	- 27 -				4		0.0	0.0				
26.8-30.0 Reddish brown (2.5YR4/4) fine to medium SAND (SW), trace fine gravel, 1/4" well rounded	- 28 -				6							Sample SB-39(26.5-27.0) collected at 1545 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
	- 28 -		13	1.1	4	1550	0.0	0.0	1550	N/A	N/A	
	- 29 -				3		0.0	0.0				
	- 29 -				3		0.0	0.0				
	- 30 -				3							Drilling ended here 11-20-06

LOG OF SOIL BORING SB-39

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 14.82		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/21/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
COMPLETION DEPTH (FT BGS) 48		NO. SAMPLES 22		DIST. 22	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		UNDIST. N/A	
CASING N/A		WATER DEPTH 2.5		COMPL. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		BORING LOCATION: 59 ft behind curb on west side of Carteret Avenue, 300 ft NW	
SAMPLER 2" diameter, 2' long split-spoon		from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
30.0-44.0 Reddish brown (2.5Y4/4) fine SANDY SILT (ML)	- 30 -		14	1.0	3	0831	0.0	0.0	0831	N/A	N/A	Drilling resumed here 11-21-06
	- 31 -				4		0.0	0.0				
	- 32 -				4							
	- 33 -				4							
	- 34 -				6							
	- 35 -				4							
	- 36 -				4							
	- 37 -				4							
	- 38 -				4							
	- 39 -				4							
	- 40 -				4							
				15	1.7	4	0837	0.0	0.0	0837	N/A	
					4		0.0	0.0				
					4		0.0	0.0				
					6		0.0	0.0				
			16	1.7	3	0846	0.0	0.0	0846	N/A	N/A	
					4		0.0	0.0				
					4		0.0	0.0				
					4		0.0	0.0				
					6		0.0	0.0				
			17	2.0	3	0849	0.0	0.0	0849	N/A	N/A	
					3		0.0	0.0				
					4		0.0	0.0				
					5		0.0	0.0				
			18	1.6	2	0859	0.0	0.0	0859	N/A	N/A	Sample SB-39(36.0-37.0) and SB-39(36.0-37.0)D collected at 0852 for TCLVOC, TCL SVOC, TAL Metals, and Total and Amenable CN
					2		0.0	0.0				
					2		0.0	0.0				
					2		0.0	0.0				

LOG OF SOIL BORING SB-39

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 14.82		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/21/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		COMPLETION DEPTH (FT BGS) 48		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 22	
CASING N/A		WATER DEPTH 2.5		UNDIST. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		CORE N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 59 ft behind curb on west side of Carteret Avenue, 300 ft NW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
30.0-44.0 Reddish brown (2.5Y4/4) fine SANDY SILT (ML)	- 40 -		19	1.8	2	0926	0.0	0.0	0926	N/A	N/A	
	- -				3		0.0	0.0				
	- 41 -				3		0.0	0.0				
	- -				3		0.0	0.0				
44.0-48.0 Reddish brown (2.5Y4/4) fine SILTY SAND (SM)	- 42 -		20	2.0	3	0928	0.0	0.0	0928	N/A	N/A	
	- -				3		0.0	0.0				
	- 43 -				3		0.0	0.0				
	- -				3		0.0	0.0				
END OF BORING AT 48 Feet bgs	- 44 -		21	1.6	3	0935	0.0	0.0	0935	N/A	N/A	
	- -				4		0.0	0.0				
	- 45 -				4		0.0	0.0				
	- -				4		0.0	0.0				
END OF BORING AT 48 Feet bgs	- 46 -		22	2.0	3	0940	0.0	0.0	0940	N/A	N/A	Sample SB-39(47.5-48.0) collected at 0944 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
	- -				4		0.0	0.0				
	- 47 -				3		0.0	0.0				
END OF BORING AT 48 Feet bgs	- -				5		0.0	0.0				
	- 48 -											
END OF BORING AT 48 Feet bgs	- -											
	- 49 -											
END OF BORING AT 48 Feet bgs	- -											
	- 50 -											

LOG OF SOIL BORING SB-56

PROJECT LOCATION Halladay Street , Jersey City, NJ			GROUND ELEVATION (FT. MSL) 13.21		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel	DATE STARTED 11/20/06		DATE COMPLETED 11/20/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers			COMPLETION DEPTH (FT BGS) 32		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 14	DIST. 1.6	UNDIST. N/A
CASING N/A		WATER DEPTH N/A		FIRST 1.6	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A		DROP N/A		BORING LOCATION: 20 ft behind curb on west side of Halladay Street, 63 ft SW from the western corner of the Halladay St. / Carteret Ave. intersection.		
SAMPLER 2" diameter, 2' long split-spoon		SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS	
			Number	Recov. (ft)	Penetr. BU/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
Cleared via hand digging to 4'; boring through asphalt; Fill consisted of reddish brown sand to 2'. 2' to 4' grayish silty sand, with suspected chromate ore processing residue (COPR)	- 0 -												
	- 1 -												
	- 2 -												
	- 3 -												
4.0-12.8 FILL: grayish silty sand, COPR, some reddish brown fine silty sand, occasional white nodules, some bright yellow nodules	- 4 -		1	1.2	2	0939	0.0	0.0	0939	N/A	N/A	No evidence of MGP contamination	
	- 5 -				1		0.0	0.0					
	- 6 -				1		0.0	0.0					
	- 7 -				2								
	- 8 -		2	1.8	1	0941	0.0	0.0	0941	N/A	N/A	No evidence of MGP contamination	
	- 9 -				1		0.0	0.0					
	- 10 -				2		0.0	0.0					
	- 11 -				4		0.0	0.0					
	- 12 -		3	2.0	1	0950	0.0	0.0	0950	N/A	N/A	No evidence of MGP contamination	
	- 13 -				2		0.0	0.0					
	- 14 -				2		0.0	0.0					
	- 15 -				2		0.0	0.0					

LOG OF SOIL BORING SB-56

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.21		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/20/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		COMPLETION DEPTH (FT BGS) 32		ROCK DEPTH (FT) not encountered	
SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 14		DIST. N/A	
CASING N/A		WATER DEPTH 1.6		UNDIST. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		CORE N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 20 ft behind curb on west side of Halladay Street, 63 ft SW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
4.0-12.8 FILL: grayish silty sand, COPR, some reddish brown fine silty sand, occasional white nodules, some bright yellow nodules	- 10 -		4	2.0	2	0952	0.0	0.0	0952	N/A	N/A	No evidence of MGP contamination
	- -				2	0.0	0.0					
	- 11 -				3	0.0	0.0					
	- -				2	0.0	0.0					
12.8-13.4 FILL: black gravel, clinker material (CM)	- 12 -		5	2.0	1	1005	0.0	0.0	1005	N/A	N/A	No evidence of MGP contamination; fishy, septic-like odors
	- -				2	0.0	0.0					
	- 13 -				2	0.0	0.0					
	- -				2	0.0	0.0					
13.4-16.4 FILL: Bright green COPR, with some gravel mixed throughout	- 14 -		6	1.6	1	1009	0.0	0.0	1009	N/A	N/A	No evidence of MGP contamination
	- -				2	0.0	0.0					
	- 15 -				1	0.0	0.0					
	- -				2	0.0	0.0					
16.4-16.7 Brown PEAT (PT), with black staining	- 16 -		7	1.9	1	1013	0.0	0.0	1013	N/A	N/A	Black staining, with tobacco/cigar-like odors 16.5-17.0; no free product; Sample SB-56(16.5-17.0) collected at 1020 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN; anaerobic swampy odors below
	- -				1	4.3	0.0					
	- 17 -				1	7.0	0.0					
	- -				1	9.8	0.0					
16.7-20.7 Brown fibrous PEAT (PT), with trace clay	- 18 -		8	2.0	1	1025	46	0.0	1025	N/A	N/A	Anaerobic, swampy odors Sample SB-56(19.0-19.5) collected at 1030 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
	- -				1	118	0.0					
	- 19 -				2	108	0.0					
	- -				2	101	0.0					
	- 20 -											

LOG OF SOIL BORING SB-56

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.21		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/20/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 14	
CASING N/A		WATER DEPTH 1.6		UNDIST. CORE N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		COMPL. 24HR N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 20 ft behind curb on west side of Halladay Street, 63 ft SW from the western corner of the Halladay St. / Carteret Ave. intersection.			
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BU/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
16.7-20.7 Brown fibrous PEAT (PT), with trace clay	- 20 -		9	1.3	1	1032	25.3	0.0	1032	N/A	N/A	Anaerobic, swampy odors
20.7-22.4 Very dark greenish gray (GLE Y1 3/1 10Y) organic CLAY (OH), 5% peat fibers	- 21 -				1		12.1	0.0				
					2		8.9	0.0				
22.4-24.5 Dark gray (GLE Y1 4/N) fine SILTY SAND (SM) with trace silt	- 22 -		10	1.4	2	1033	3.4	0.0	1033	N/A	N/A	Anaerobic, swampy odors
					5		6.8	0.0				
					7		7.1	0.0				
24.5-24.8 Dark gray (GLE Y1 4/N) GRAVEL, 1" to 1/4" (GW), trace sand, trace clay	- 23 -				6							
					6		1.3	0.0				
					7		1.0	0.0				
24.8-26.1 Dark greenish gray (GLE Y1 4/1 5G) fine SILTY SAND (SM), trace fine 1/8" gravel, little clay, very tight	- 24 -				6							
					7							
26.1-26.4 Olive gray (5Y4/2) SILT (MH), trace clay, very firm	- 25 -				6							
					7							
26.4-28.6 Dark grayish brown (2.5Y4/2) fine to medium SAND (SW), trace silt, trace coarse sand, trace fine gravel	- 26 -				6		0.0	0.0	1052	N/A	N/A	No odors this spoon
					8		0.0	0.0				
					8		0.0	0.0				
28.6-28.9 Reddish brown (2.5Y4/4) fine SILTY SAND (SM)	- 27 -				10							
					6		0.0	0.0	1106	N/A	N/A	No odors this spoon
					7		0.0	0.0				
28.9-30.0 Weak red (2.5YR4/2) fine to medium SAND (SW), trace gravel, trace coarse sand	- 28 -				7		0.0	0.0				
					7		0.0	0.0				
					8		0.0	0.0				
	- 29 -											
	- 30 -											

LOG OF SOIL BORING SB-56

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.21		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/20/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/20/06		ROCK DEPTH (FT) not encountered	
COMPLETION DEPTH (FT BGS) 32		NO. SAMPLES 14		UNDIST. N/A	
TYPE BIT Hollow-stem auger		SIZE AND TYPE CORE BARREL N/A		CORE N/A	
CASING N/A		WATER DEPTH 1.6		COMPL. N/A	
CASING HAMMER WEIGHT N/A		DROP N/A		BORING LOCATION: 20 ft behind curb on west side of Halladay Street, 63 ft SW	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: 20 ft behind curb on west side of Halladay Street, 63 ft SW		from the western corner of the Halladay St. / Carteret Ave. intersection.	
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		INSPECTOR Eric Gaulin	

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
30.0-31.1 Weak red (2.5YR4/2) fine to medium SAND (SW), trace silt	- 30 -		14	1.1	5	1121	0.0	0.0	1121	N/A	N/A	Sample SB-56(30.5-31.0) collected at 1124 for TCL VOC, TCL SVOC, TAL Metals, Total and Amenable CN
	- 31 -				6		0.0	0.0				
	- 31 -				6		0.0	0.0				
	- 32 -				7							
END OF BORING AT 32 FEET BGS	- 32 -											
	- 33 -											
	- 34 -											
	- 35 -											
	- 36 -											
	- 37 -											
	- 38 -											
	- 39 -											
	- 40 -											

LOG OF SOIL BORING SB-67

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 13.86	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 08/28/07	DATE COMPLETED 08/28/07	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 50'	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 23	DIST. 23	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER N/A	WEIGHT N/A	DROP N/A	BORING LOCATION: Western interior of the Rudolf Bass Building, located at 45 Carteret Avenue, Jersey City, New Jersey	
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER N/A	WEIGHT 140 lbs.	DROP 30"		

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS	
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
0.0-0.5' Concrete, wire mesh	0												Boring through concrete floor in Rudolf Bass building
0.5-7.5' FILL: olive green to bright green fine sandy SILT, suspected chromate processing waste mud, wet from 4', firm	-1												This boring was hand cleared to 4' bgs using a hand auger
	-2												Sample SB-67 (1.5-2.0) collected at 1546 for TCL VOC, TCL SVOC
	-3												No odor, no staining; no observable evidence of MGP contamination
	-4		1	2.0	2	1550	0.0	0.0	1550	N/A	N/A		No odor, no staining; no observable evidence of MGP contamination
	-5				3		0.0	0.0					Ammonia-like odors
	-6				5		0.0	0.0					
	-7				5		0.0	0.0					
7.5-8.5 FILL: black fine GRAVEL and clinker material (CM), wet, loose	-8				7		0.0	0.0					
	-9		3	2.0	5	1605	0.0	0.0	1605	N/A	N/A		No odor, no staining; no observable evidence of MGP contamination
8.5-18.0' FILL: gray to green sandy SILT, suspected chromium processing waste mud, moist, medium stiff	-10				5		0.0	0.0					No odor, no staining; no observable evidence of MGP contamination
					6		0.0	0.0					
					6		0.0	0.0					

LOG OF SOIL BORING SB-67

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 13.86	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 08/28/07	DATE COMPLETED 08/28/07	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 50'	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 23	DIST. 23	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: Western interior of the Rudolf Bass Building, located at 45 Carteret Avenue, Jersey City, New Jersey		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS					REMARKS	
			Number	Recov. (ft)	Penetr. BL.6in	Time	(PPM)						
							Sample	Ambient Air	Time	Head Space	Time Date		
8.5-18.0' FILL: gray to green sandy SILT, suspected chromium processing waste mud, moist, medium stiff	- 10 -		4	1.5	6	1612	0.0	0.0	1612	N/A	N/A	No odor, no staining; no observable evidence of MGP contamination	
					6		0.0	0.0					
					7		0.0	0.0					
					7								
				5	1.0	5	1615	0.0	0.0	1615	N/A		N/A
					6		0.0	0.0					
					7								
					6								
				6	2.0	3	1620	0.0	0.0	1620	N/A		N/A
					4		0.0	0.0					
18.0-18.5' Black (5Y 2.5/1) organic silt and CLAY, 10% peat fibers (PT), moist, medium stiff 18.5-25.2' Very dark gray (5Y 3/1) organic silt CLAY (OH), moist, stiff	- 13 -				7		0.0	0.0				No odor, no staining; no observable evidence of MGP contamination	
					4		0.0	0.0					
					4		0.0	0.0					
					4		0.0	0.0					
				7	2.0	3	1626	0.0	0.0	1626	N/A		N/A
					4		0.0	0.0					
					3		0.0	0.0					
					4		0.0	0.0					
				8	2.0	3	1639	6.7	0.0	1639	N/A		N/A
					4		14.8	0.0					
				5		14.9	0.0						
				5		8.2	0.0						
											No staining; no observable evidence of MGP contamination swampy, anaerobic odors noted 1645 SB-67(19.5-20.0) collected for TCL VOC, TCL SVOC		

LOG OF SOIL BORING SB-67

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 13.86	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 08/28/07	DATE COMPLETED 08/28/07	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 50'	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 23	DIST. 4	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER N/A	WEIGHT N/A	DROP N/A	BORING LOCATION: Western interior of the Rudolf Bass Building, located at 45 Carteret Avenue, Jersey City, New Jersey	
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER N/A	WEIGHT 140 lbs.	DROP 30"		

DESCRIPTION	Sample Interval Depth (ft bgs)	Samples				PID READINGS (PPM)					REMARKS
		Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
18.5-25.2' Very dark gray (5Y 3/1) organic silt CLAY (OH), moist, stiff	- 20 -	9	1.5	3	1648	7.5	0.0	1648	N/A	N/A	No staining; no observable evidence of MGP contamination swampy, anaerobic odors noted
				4		3.7	0.0				
	- 21 -			4		6.2	0.0				
				5							
	- 22 -	10	2.0	4	1650	10.0	0.0	1650	N/A	N/A	
25.2-25.5' Dark reddish gray (2.5YR 4/1) medium silty SAND (SM), wet, medium dense				4		8.3	0.0				No odor, no staining; no observable evidence of MGP contamination swampy, anaerobic odors noted
	- 23 -			4		7.3	0.0				
				5		8.0	0.0				
	- 24 -	11	1.8	5	1727	0.0	0.0	1727	N/A	N/A	
				7		0.0	0.0				
25.5-25.8' Dark gray (GLE Y 1 4/N) fine to medium SAND, little fine gravel (SM), little clay, wet, medium dense				8		0.0	0.0				No odor, no staining; no observable evidence of MGP contamination
	- 26 -			10		0.0	0.0				
				12		0.0	0.0				
	- 27 -	12	1.8	8	1735	0.0	0.0	1735	N/A	N/A	
				11		0.0	0.0				
26.0-26.8' Reddish gray (2.5YR 5/1) fine to coarse SAND (SW), little fine gravel, wet, medium dense				12		0.0	0.0				No odor, no staining; no observable evidence of MGP contamination
	- 28 -			11		0.0	0.0				
				12		0.0	0.0				
	- 29 -	11	1.8	8	1735	0.0	0.0	1735	N/A	N/A	
				11		0.0	0.0				
26.8-27.3' Red (2.5YR 4/6) SAND and coarse GRAVEL (GP) wet				11		0.0	0.0				No staining; no observable evidence of MGP contamination
	- 30 -			13		0.0	0.0				
				13		0.0	0.0				
	- 31 -	13	1.0	10	1739	0.0	0.0	1739	N/A	N/A	
				13		0.0	0.0				
27.3-28.1' Dark gray (GLE Y 1 4/N) sandy GRAVEL, little clay (GC) wet				20							No staining; no observable evidence of MGP contamination
	- 32 -			23							
				23							
	- 33 -	13	1.0	10	1739	0.0	0.0	1739	N/A	N/A	
				20							
28.1-28.3' Reddish brown (2.5YR 4/4) GRAVEL (GW), weathered siltstone fragments, wet				23							No staining; no observable evidence of MGP contamination
	- 34 -			23							
				23							
	- 35 -	13	1.0	10	1739	0.0	0.0	1739	N/A	N/A	
				23							
28.3-30.5' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), little silt, wet, dense				23							No staining; no observable evidence of MGP contamination
	- 36 -			23							
				23							
	- 37 -	13	1.0	10	1739	0.0	0.0	1739	N/A	N/A	
				23							

LOG OF SOIL BORING SB-67

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 13.86	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 08/28/07	DATE COMPLETED 08/28/07	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 50'	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 23	DIST. 4	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A	24HR. N/A
CASING HAMMER N/A	WEIGHT N/A	DROP N/A	BORING LOCATION: Western interior of the Rudolf Bass Building, located at 45 Carteret Avenue, Jersey City, New Jersey	
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER N/A	WEIGHT 140 lbs.	DROP 30"		

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
28.3-30.5' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), little silt, wet, dense	- 30		14	1.0	7	1847	0.0	0.0	1847	N/A	N/A	No odor, no staining; no observable evidence of MGP contamination
30.5-31.0' Reddish brown (2.5YR 4/4) silty fine SAND (SM), wet, medium dense	- 31				8		0.0	0.0				
					8							
					9							
32.0-35.0' Reddish brown (2.5YR 4/4) fine SAND (SP), little silt, wet, medium dense	- 32		15	1.5	8	1853	0.0	0.0	1853	N/A	N/A	No staining; no observable evidence of MGP contamination
					8		0.0	0.0				
					9		0.0	0.0				
					12							
35.0-36.1' Reddish brown (2.5YR 5/4) fine sandy SILT (ML), wet	- 35		16	1.5	6	1903	0.0	0.0	1903	N/A	N/A	No staining; no observable evidence of MGP contamination
					7		0.0	0.0				
					7		0.0	0.0				1905 Sample SB-67(35.0-35.5) for TCL VOC, TCL SVOC
					8							
36.1-50.0' Reddish brown (2.5YR 4/4) silty fine SAND (SM), wet	- 36		17	2.0	6	1924	0.0	0.0	1924	N/A	N/A	No staining; no observable evidence of MGP contamination
					5		0.0	0.0				
					6		0.0	0.0				
					9		0.0	0.0				
			18	1.5	6	1940	0.1	0.0	1940	N/A	N/A	No staining; no observable evidence of MGP contamination
					6		0.0	0.0				
					5		0.0	0.0				
					9							
					9							

LOG OF SOIL BORING SB-67

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 13.86	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 08/28/07	DATE COMPLETED 08/28/07	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 50'	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 23	DIST. 4	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: Western interior of the Rudolf Bass Building, located at 45 Carteret Avenue, Jersey City, New Jersey		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS		
			Number	Recov. (ft)	Penetr. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date			
36.1-50.0' Reddish brown (2.5YR 4/4) silty fine SAND (SM), wet	- 40 -		19	1.0	5	1956	0.0	0.0	1956	N/A	N/A	No odor, no staining; no observable evidence of MGP contamination		
					5		0.0	0.0						
					7									
		- 41 -										No staining; no observable evidence of MGP contamination		
					20	2.0	20	2003	0.0	0.0	2003		N/A	N/A
							11		0.0	0.0				
							17		0.0	0.0				
							24		0.0	0.0				
		- 42 -										No staining; no observable evidence of MGP contamination		
					21	1.5	5	2018	0.0	0.0	2018		N/A	N/A
							7		0.0	0.0				
							9		0.0	0.0				
							11							
		- 43 -										No staining; no observable evidence of MGP contamination		
				22	2.0	5	2026	0.0	0.0	2026	N/A		N/A	
						9		0.0	0.0					
						9		0.0	0.0					
						8		0.0	0.0					
	- 44 -										No staining; no observable evidence of MGP contamination			
				23	2.0	12	2040	0.0	0.0	2040		N/A	N/A	
						5		0.0	0.0					
						8		0.0	0.0					
						14		0.0	0.0					
	- 45 -										2042 Sample SB-67(49.5-50.0) for TCL VOC, TCL SVOC			
						8		0.0	0.0					
						14		0.0	0.0					
	- 46 -													
	- 47 -													
	- 48 -													
	- 49 -													
	- 50 -													

END OF BORING AT 50' BGS

Appendix G-2


Site 143

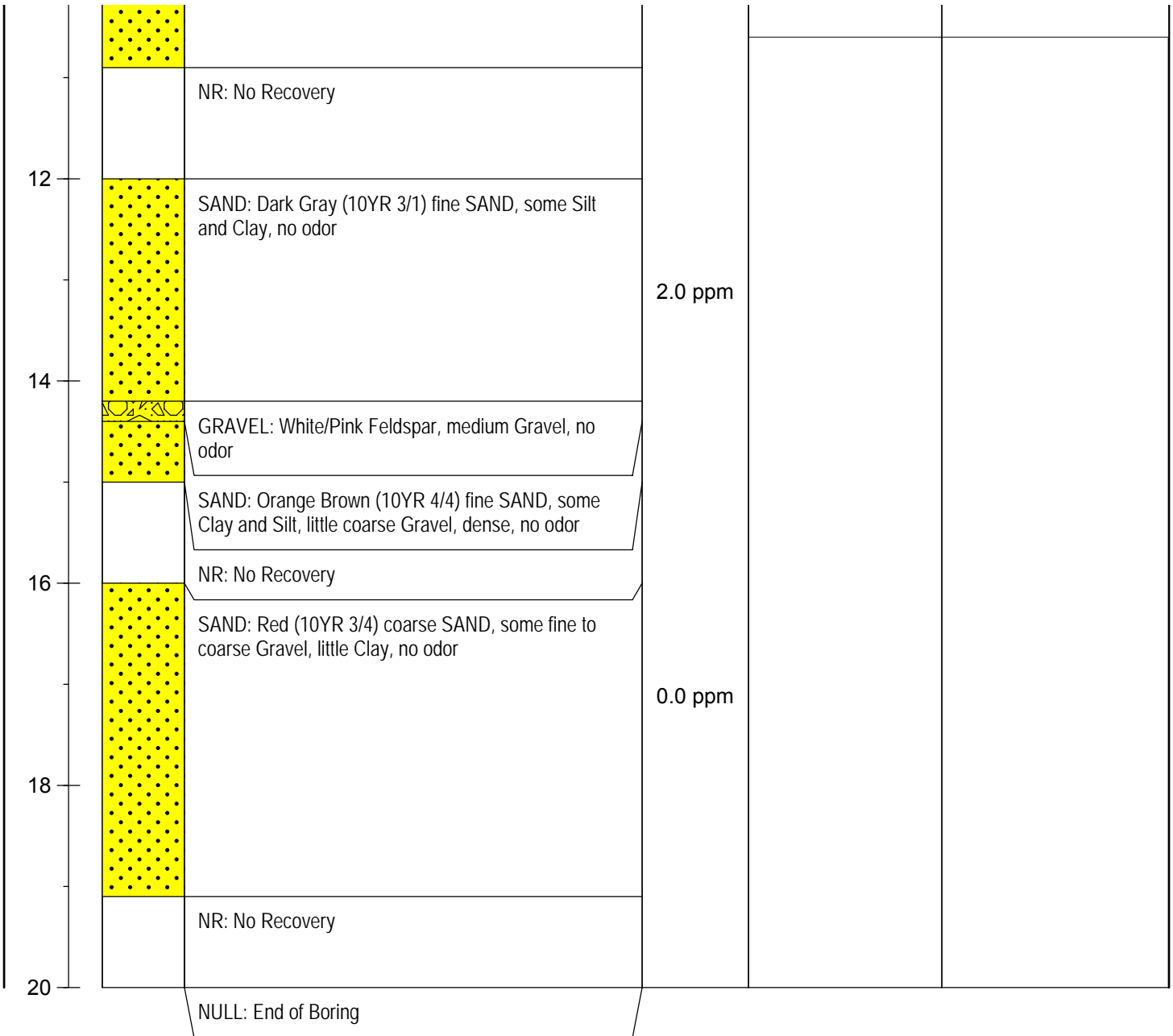
ENSR AECOM	Client: PPG Industries	BORING ID: 143-B1			
	Site: Site 143				
Start Date: 1/10/2007	Project: Site Investigation	Page: 1 of 2			
	Coordinates: X-610657.4 Y-683192.0	Depth of Boring: 20.00			
End Date: 1/10/2007	Elevation: 13.99	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller:			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Black (7.5YR 2.5/1) coarse SAND, some fine Gravel, little woody organics, trace fine gravel sized COPR (5%), no odor	0.3 ppm	143-B1A (0.1-1.0)	Cr+6, TAL Metals
		FILL: Red Brown (2.5YR 4/3) fine SAND, some Clay and Silt, little fine to coarse Gravel, no odor		0.0 ppm	143-B1B (1.0-1.5)
2		NR: No Sample			
4		FILL: Red Brown (2.5YR 4/3) fine SAND, some Clay and Silt, little fine to coarse Gravel, no odor			
		FILL: Dark Brown (7.5YR 3/1) coarse SAND, come Clay, brick fragments, fine Gravel, no odor		143-B1C (5.0-5.5)	Cr+6, TAL Metals
6		NR: No Recovery			
8		FILL: Dark Brown (7.5YR 3/1) coarse SAND, come Clay, brick fragments, fine Gravel, no odor		143-B1D (8.6-9.1)	Cr+6, TAL Metals
		FILL: Black (10YE 2/1) fine SAND, some fine Gravel, no odor	0.0 ppm	143-B1E(9.1-10.6) 143-B1ED(9.1-10.6)	Cr+6, TAL Metals Cr+6, TAL Metals
10		SAND: Dark Gray (10YR 3/1) fine SAND, some Silt and Clay, no odor			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

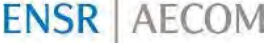
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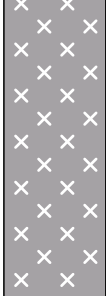
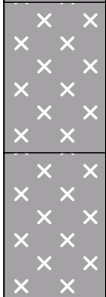
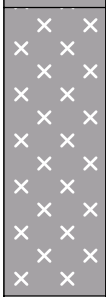
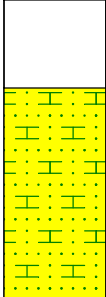
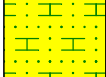
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	Site: Site 143				
Start Date: 1/10/2007	Project: Site Investigation	Page: 2 of 2			
	Coordinates: X-610657.4 Y-683192.0	Depth of Boring: 20.00			
End Date: 1/10/2007	Elevation: 13.99	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller:			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.


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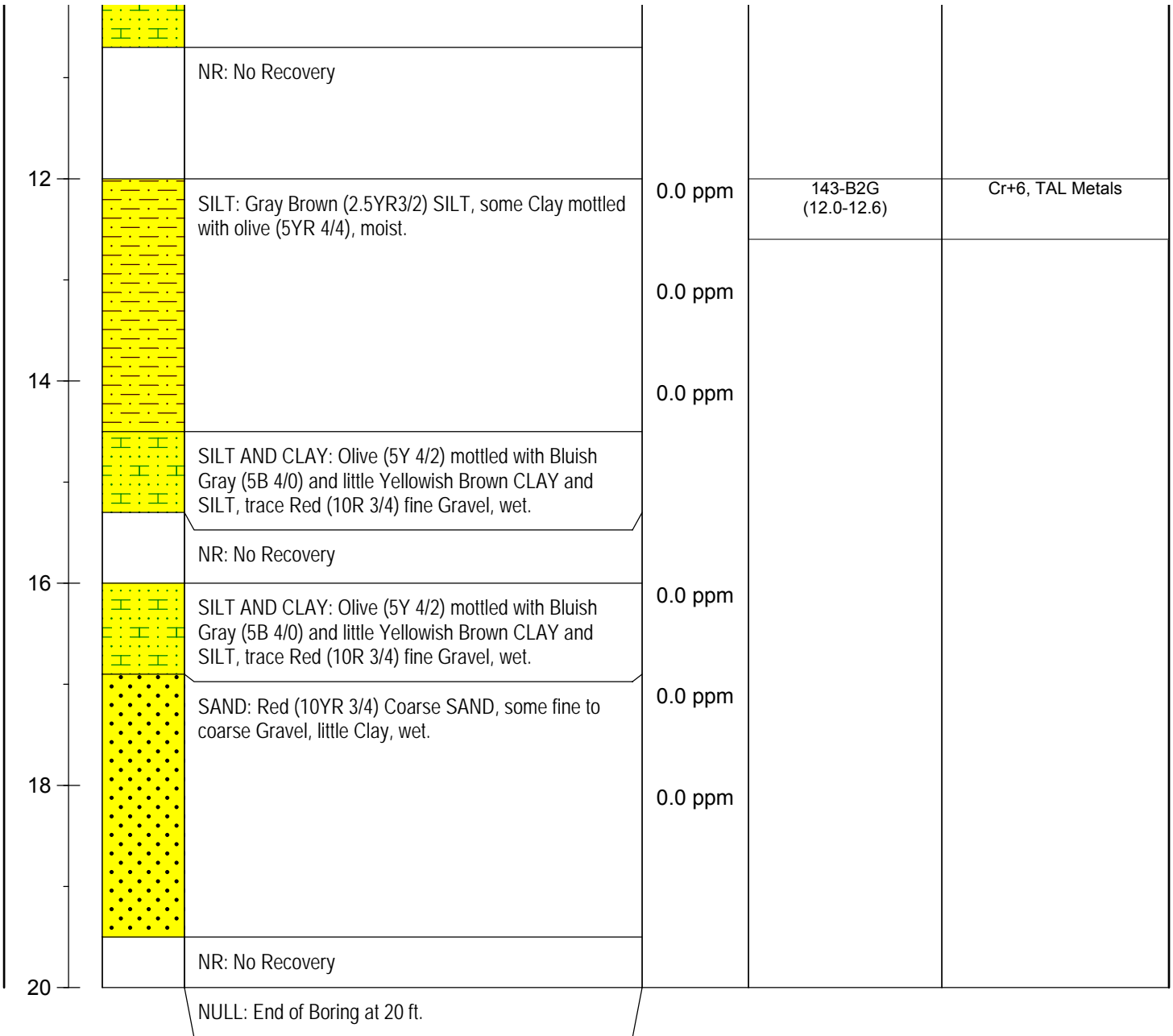
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	Site: Site 143				
Start Date: 1/10/2007	Project: Site Investigation	Page: 1 of 2			
	Coordinates: X-610636.0 Y-683137.2	Depth of Boring: 20.00			
End Date: 1/10/2007	Elevation: 14.02	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT		143-B2A (0.2-0.7)	Cr+6, TAL Metals
		FILL: Dark Reddish Brown (5YR 3/2) SILT, some COPR (40%), little medium to coarse Sand, trace medium angular Gravel, fill material (coal, glass, brick), loose, dry. No odor.			
2		FILL: COBBLES and rail road timber.			
		FILL: Dark Yellowish Brown (10YR 4/4) clayey SILT, little fine to coarse Sand, trace semi-round fine Gravel and COPR (1%), loose, wet. No odor.			
4		FILL: Black (5Y 2.5/1) coarse SAND, some Silt and Clay, little fine Gravel, medium density, wet. No odor.	0.0 ppm	143-B2E (5.0-5.5)	MS/MSD, Cr+6, TAL Metals
		NR: No Recovery			
6			0.0 ppm		
			0.0 ppm		
8		SILT AND CLAY: Brown (7.5YR 3/1) SILT and CLAY, some fine Sand, little Black fine Sand nodes throughout, trace fine Gravel, wet.	0.0 ppm	143-B2F (8.1-8.6)	Cr+6, TAL Metals
			0.0 ppm		
10			0.0 ppm		

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

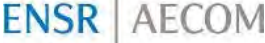
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	Client: PPG Industries	BORING ID: 143-B2			
	Site: Site 143				
Start Date: 1/10/2007	Project: Site Investigation	Page: 2 of 2			
	Coordinates: X-610636.0 Y-683137.2	Depth of Boring: 20.00			
End Date: 1/10/2007	Elevation: 14.02	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.


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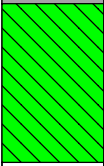

		Client: PPG Industries Site: Site 143	BORING ID: 143-B3		
Start Date: 1/9/2007	Project: Site Investigation		Page: 1 of 3		
End Date: 1/11/2007		Coordinates: X-610716.0 Y-683076.5	Depth of Boring: 24.00		
Elevation: 14.12		Geologist: P. Kelly		Driller: Heath Kneller	
Drill Subcontractor: Eichelberger/Terra Probe Incorporated					
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Asphalt	20.6 ppm	143-B3A (0.2-0.7)	Cr+6, TAL Metals	
		FILL: Black (10YR 2/1) coarse SAND, some fine to coarse Gravel, trace glass fragments, no odor				
		FILL: Waste Fill (auto parts), petrotroleum odor				
2		FILL: Black (5Y 2.5/1) coarse SAND, some fine to coarse Gravel, little Clay, strong petroleum odor			143-B3B (1.5-1.9)	Cr+6, TAL Metals
		FILL: Dark Red-Brown (5YR 5/1) CLAY and SILT, some fine Gravel, trace green/gray (5G 5/1) Clay and 5% COPR, strong petroleum odor and petroleum sheen			143-B3C (2.4-2.8)	Cr+6, TAL Metals
4		FILL: Dark Red-Brown (5YR 3/1) woody organics, little fine Gravel, Clay and Silt, strong petroleum odor		130 ppm	143-B3D (3.5-4.0)	Cr+6, TAL Metals
		FILL: Black (10YR 3/1) fine SAND, some fine medium Gravel, little brick and glass fragment, no odor		1.2 ppm		
6				0.3 ppm	143-B3E (6.4-6.9)	Cr+6, TAL Metals
			0.2 ppm			
8		NR: No Recovery	0.0 ppm			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.


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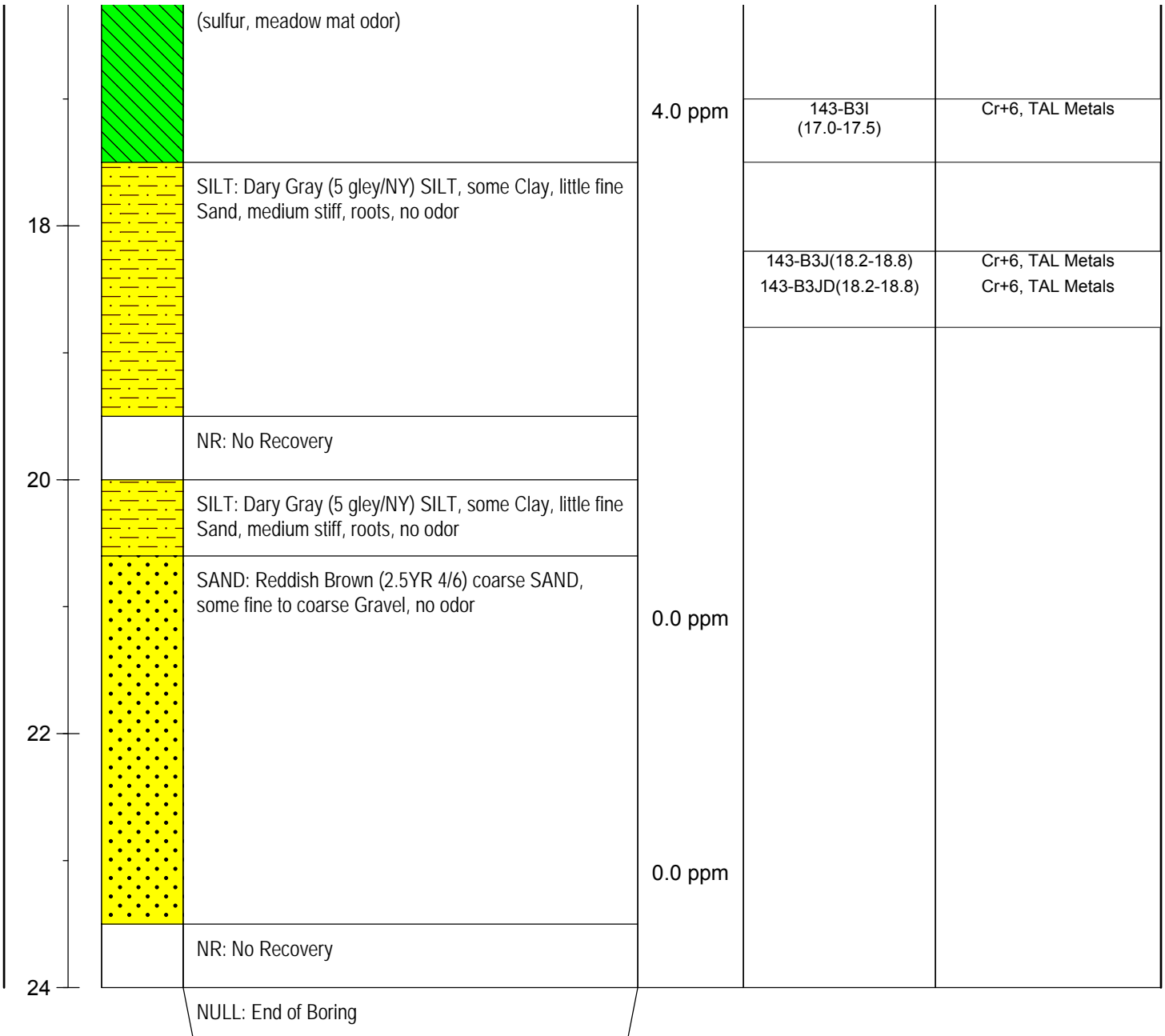
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	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610716.0 Y-683076.5	Depth of Boring: 24.00			
End Date: 1/11/2007	Elevation: 14.12	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Health Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Dark Gray (5YR 4/1) coarse SAND, some fine and medium gravel, little brick and glass fragment, no odor	0.0 ppm	143-B3F (9.3-10.1)	Cr+6, TAL Metals
		NR: No Recovery			
12		FILL: Dark Gray (5YR 4/1) coarse SAND, some fine and medium gravel, little brick and glass fragment, no odor	0.0 ppm	143-B3G (12.8-13.4)	Cr+6, TAL Metals
		FILL: Dark Brown (10YR 3/2) CLAY, some Silt, little rootlets, no odor			
14		CLAY: Dark Brown (2.5YR 2.5/2) CLAY/Organics (sulfur, meadow mat odor)	0.0 ppm	143-B3H (13.9-14.5)	Cr+6, TAL Metals
		NR: No Recovery			
16		CLAY: Dark Brown (2.5YR 2.5/2) CLAY/Organics			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

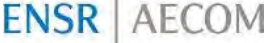
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	Client: PPG Industries		BORING ID: 143-B3		
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation		Page: 3 of 3		
	Coordinates: X-610716.0 Y-683076.5		Depth of Boring: 24.00		
End Date: 1/11/2007	Elevation: 14.12		Geologist: P. Kelly		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

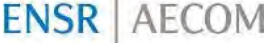
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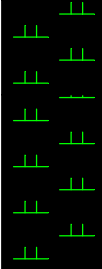
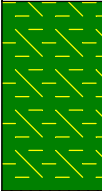
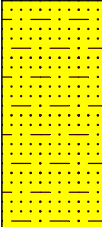
	Client: PPG Industries	BORING ID: 143-B4			
	Site: Site 143				
Start Date: 2/9/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610753.6 Y-683158.1	Depth of Boring: 28.00			
End Date: 2/9/2007	Elevation: 14.16	Geologist: M. Merdinger			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Brian			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: CONCRETE, no staining, dry.	0.0 ppm		
		FILL: Very Dark Brown (7.5YR 2.5/2) SILT, little fine Sand, Fill material (class, brick, wood), 50% COPR, loose, dry. No odor.	0.1 ppm	143-B4A (0.5-1.0)	Cr+6, TAL Metals
		FILL: Red Brown to Black SILT, trace fine rounded Gravel, Fill material (coal, brick), loose, moist. No odor.	0.1 ppm	143-B4B (1.5-2.0)	Cr+6, TAL Metals
2			0.1 ppm		
		NR: No Sample	0.1 ppm		
4		FILL: Dark Brown (7.5YR 3/2) SILT and coarse GRAVEL, little Clay, some goldenrod - green staining, moist.	0.1 ppm		
		FILL: Dark Brown (7.5YR 3/2) and partially stained Black SILT and coarse GRAVEL, little Clay, some goldenrod - green staining, loose, wet. Fill material (wood).	0.3 ppm	143-B4C (4.6-5.1)	Cr+6, TAL Metals
6		NR: No Recovery			
8		FILL: Very Dark Gray (10YR 3/1) fine to medium sandy SILT, little fine semi-angular Gravel, loose, wet. No odor.	0.0 ppm	143-B4D (8.0-8.5)	Cr+6, TAL Metals
		NR: No Recovery			

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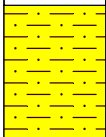
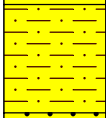
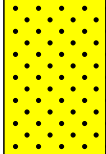
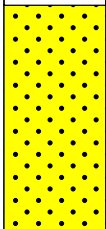
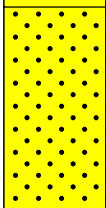
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	Site: Site 143				
Start Date: 2/9/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610753.6 Y-683158.1	Depth of Boring: 28.00			
End Date: 2/9/2007	Elevation: 14.16	Geologist: M. Merdinger			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Brian			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10					
12		FILL: Very Dark Brown (10YR 2/2) coarse SAND and medium semi-angular GRAVEL, some Silt, loose, wet. No odor.	0.5 ppm	143-B4E (12.0-12.5)	Cr+6, TAL Metals
			0.5 ppm		
14		PEAT: Very Dark Grayish Brown (10YR 3/2) organic CLAY, trace organics, medium stiff, moist. Sulfur odor.	3.1 ppm	143-B4F (13.6-14.1)	Cr+6, TAL Metals
		PEAT: PEAT , organics, medium stiff, moist. Sulfur odor,			
16		NR: No Recovery	0.0 ppm	143-B4G (16.0-16.5)	Cr+6, TAL Metals
		SILTY CLAY: Dark Grayish Brown (2.5Y 4/2) and Olive Brown (2.5Y 4/3) silty CLAY, trace fine Sand, medium stiff, moist. No odor.			
18		SAND AND SILT: Grayish Brown (2.5Y 4.5/2) SILT and interbedded very fine SAND, moist. No odor.			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

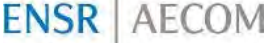
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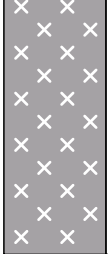
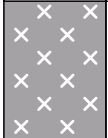

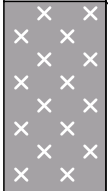


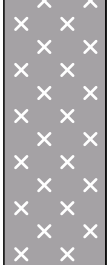
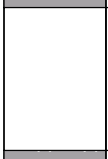
	Client: PPG Industries	BORING ID: 143-B4			
	Site: Site 143				
Start Date: 2/9/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610753.6 Y-683158.1	Depth of Boring: 28.00			
End Date: 2/9/2007	Elevation: 14.16	Geologist: M. Merdinger			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Brian			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

20		NR: No Recovery			
		SILT: Grayish Brown (10YR 5/2) and Yellowish Brown (10YR 5/6) mottled SILT, trace fine to medium Gravel, dense, moist. No odor.	0.0 ppm	143-B4H (20.0-20.5)	MS/MSD, Cr+6, TAL Metals
		SILT: Brown (7.5YR 5/4) SILT, trace fine to medium Gravel and medium Sand, medium dense, moist. No odor.	0.0 ppm		
22		SAND: Strong Brown (7.5YR 5/6) and Brown (7.5YR 4/4) medium to coarse SAND, some Silt, trace fine Gravel, wet, loose. No odor.	0.0 ppm		
		NR: No Recovery			
24		SAND: Reddish Brown (5YR 4/4) medium to coarse SAND and fine to coarse Gravel, trace Silt, loose, wet. No odor.	N/A	143-B4I (24.0-24.5)	Cr+6, TAL Metals
26		SAND: Red (2.5YR 4/6) very fine SAND, trace Silt, loose, wet. No odor.			
		NR: No Recovery			
28		NULL: End of Boring at 28 ft.			

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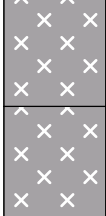
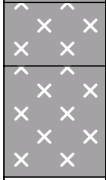
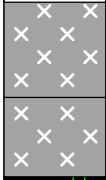
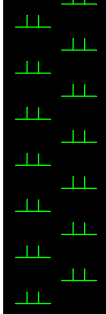
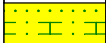
	Client: PPG Industries	BORING ID: 143-B5			
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00			
End Date: 1/11/2007	Elevation: 14.23	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Asphalt			
		FILL: Black (5YR 2.5/1) fine SAND, some fine Gravel and Silt, little brick fragments and coarse Gravel, no odor	0.0 ppm	143-B5A (1.0-1.5)	Cr+6, TAL Metals
2		FILL: Dark Brown (7.5YR 2.5/1) coarse SAND, some fine Gravel, and little fine gravel sized COPR (10%), trace brick fragments, no odor	0.0 ppm	143-B5B (2.0-2.5)	Cr+6, TAL Metals
		FILL: White (7.5YR 8/1) SILT/CLAY, some black staining, no odor	0.0 ppm	143-B5C (2.9-3.4)	Cr+6, TAL Metals
4		FILL: Brown (7.5YR 4/3) CLAY, some silt, little fine to coarse Gravel and medium gravel sized Slag, black (10YR 2/1), no odor	0.0 ppm	143-B5D (3.5-4.1)	Cr+6, TAL Metals
		FILL: Cobbles			
		NR: No Sample			
6		FILL: Red-Brown (2.5YR 3/4) SILT/CLAY, some fine gravel, trace glass pieces, no odor	0.1 ppm	143-B5E (6.5-7.0)	Cr+6, TAL Metals
8		NR: No Recovery			

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	Client: PPG Industries	BORING ID: 143-B5			
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00			
End Date: 1/11/2007	Elevation: 14.23	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Red-Brown (2.5YR 3/4) SILT/CLAY, some fine gravel, trace glass pieces, no odor	0.7 ppm	143-B5F (8.8-9.5)	Cr+6, TAL Metals
		FILL: Dark Brown (7.5YR 2.5/2) SILT, some fine Gravel, little woody organics, no odor			
12		FILL: White (5Y 8/1) SILT/CLAY, very soft, some Brown (5YR 2.5/1) Silt and fine Sand, no odor			
		FILL: Red-Black (2.5YR 2.5/1) coarse SAND, some Silt, little fine Gravel, trace glass fragments, no odor			
		NR: No Recovery			
14		FILL: Red-Black (2.5YR 2.5/1) coarse SAND, some Silt, little fine Gravel, trace glass fragments, no odor	0.7 ppm	143-B5H(9.9-10.6) 143-B5HD(9.9-10.6)	Cr+6, TAL Metals
		FILL: Dark Gray (N31 gley) SILT/Ash, some fine Gravel little debris, no odor			
		PEAT: Meadow Mat, dark Brown (2.5YR 2.5/2) CLAY, with Organics, no odor			
16		NR: No Recovery	0.6 ppm	143-B5I (12.6-13.1) 143-B5J (13.1-13.9)	Cr+6, TAL Metals
		NR: No Recovery			
		SILT AND CLAY: Green Gray (5BG 5/1) with little Dark	0.4 ppm		

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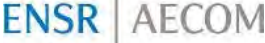
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ENSR AECOM		Client: PPG Industries	BORING ID: 143-B5		
		Site: Site 143			
Start Date: 1/9/2007	Project: Site Investigation		Page: 3 of 3		
		Coordinates: X-610774.0 Y-683208.0	Depth of Boring: 24.00		
End Date: 1/11/2007	Elevation: 14.23		Geologist: P. Kelly		
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

18	[Lithology Pattern]	Rd (5YR 4/6) CLAY/SILT, little fine Sand, trace Dark Red (2.5YR 3/6) medium Gravel from 18.1' to 19.1', no odor	0.4 ppm	143-B5K (17.1-17.9)	Cr+6, TAL Metals
20	[Lithology Pattern]	NR: No Recovery	0.0 ppm		
22	[Lithology Pattern]	SILT AND CLAY: Green Gray (5BG 5/1) with little Dark Rd (5YR 4/6) CLAY/SILT, little fine Sand, trace Dark Red (2.5YR 3/6) medium Gravel, no odor	0.4 ppm		
24	[Lithology Pattern]	SAND: Reddish Brown (2.5YR 4/6) coarse SAND, some fine to coarse Gravel, no odor			
	[Lithology Pattern]	NR: No Recovery			
		NULL: End of Boring			

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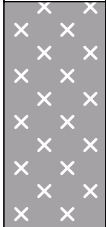
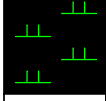
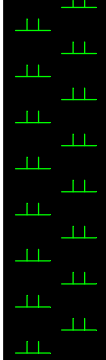
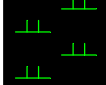
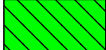
	Client: PPG Industries	BORING ID: 143-B6			
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610799.8 Y-683134.3	Depth of Boring: 28.00			
End Date: 1/12/2007	Elevation: 13.83	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Asphalt		143-B6A (0.2-0.8)	Cr+6, TAL Metals
		FILL: Black (10YR 2.5/1) coarse SAND, some fine Gravel, no odor	0.0 ppm		
		FILL: Dark Red Brown (5YR 3/2) coarse SAND, some fine Gravel and Clay, trace COPR 5%, no odor		143-B6B (1.3-1.7)	Cr+6, TAL Metals
2		FILL: Concrete	0.0 ppm		
		FILL: Wood			
		FILL: Black (5YR 2.5/1) fine GRAVEL, some coarse Sand, little coarse Gravel and Clay, trace woody organics, no odor	0.0 ppm	143-B6C (2.9-3.4)	Cr+6, TAL Metals
4		FILL: Dark Brown (7.5YR 3/2) CLAY with Silt, some fine Gravel, trace green/gray (5Y 5/1) Clay, no odor		143-B6D (4.4-4.9)	Cr+6, TAL Metals
		FILL: Cobbles			
		FILL: Brown (10YR 4/3), SILT with little fine Sand, trace fine Gravel, some dark Brown (2.5YR 3/1) nodes, no odor	0.1 ppm	143-B6E (5.5-6.0)	Cr+6, TAL Metals
6		FILL: Brown (10YR 4/3) and Gray (10YR 7/1) mottled Clay, little Silt, fine Gravel, trace Red (10R 3/4) Organics, and medium Gravel at 7.2 to 7.4 feet, no odor	0.0 ppm	143-B6F (6.5-6.9)	Cr+6, TAL Metals
		FILL: Dark Reddish Brown (5YR 3/2) silty CLAY, some woody Organics, no odor	0.0 ppm	143-B6G(7.4-7.7)	Cr+6, TAL Metals
8		NR: No Recovery	0.0 ppm		
		FILL: Gray (gley N5) coarse SAND, ash, some fine to medium gravel, shells, little woody organics, loose, no odor	0.0 ppm	143-B6H(8.5-9.1) 143-B6HD(8.5-9.1)	Cr+6, TAL Metals Cr+6, TAL Metals

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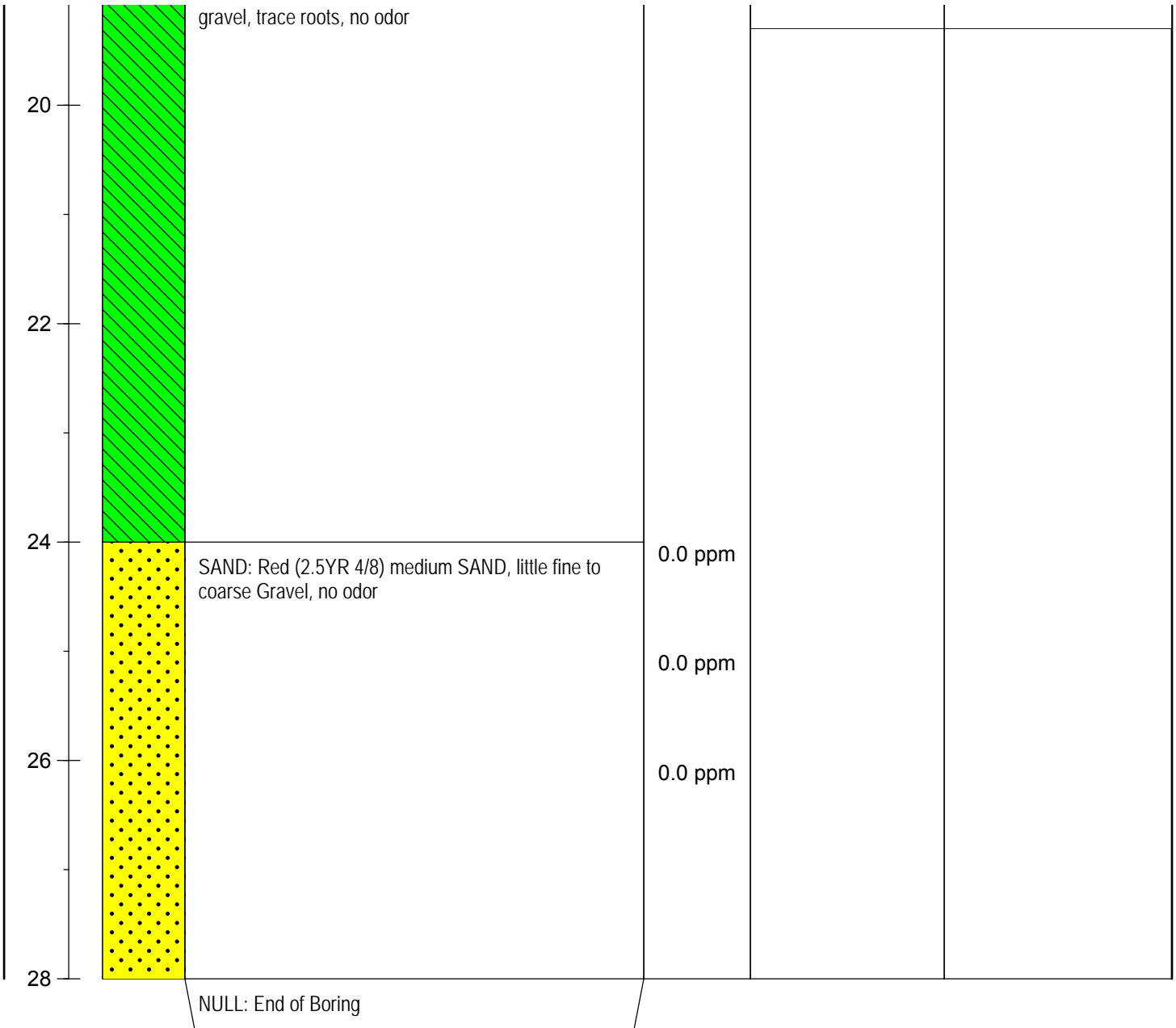
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	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610799.8 Y-683134.3	Depth of Boring: 28.00			
End Date: 1/12/2007	Elevation: 13.83	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10			0.0 ppm		
		NR: No Recovery			
12		FILL: Gray (gley N5) coarse SAND, ash, some fine to medium gravel, shells, little woody organics, loose, no odor			
14		PEAT: Meadow Mat, Brown (5YR 3/3) CLAY Organics, sulfur odor		143-B6I (13.7-14.4)	Cr+6, TAL Metals
		NR: No Recovery			
16		PEAT: Meadow Mat, Brown (5YR 3/3) CLAY Organics, sulfur odor	10.1 ppm		
			16.9 ppm		
18			14.3 ppm	143-B6J (17.5-18.0)	Cr+6, TAL Metals
		CLAY: Gray (gley N/6) CLAY, some silt, little fine		143-B6K (18.7-19.3)	Cr+6, TAL Metals

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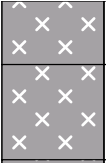
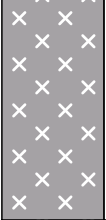
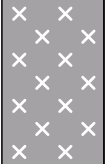
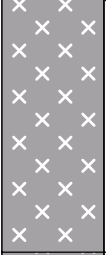
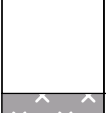
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	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610799.8 Y-683134.3	Depth of Boring: 28.00			
End Date: 1/12/2007	Elevation: 13.83	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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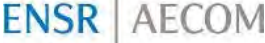
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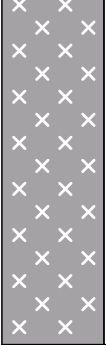
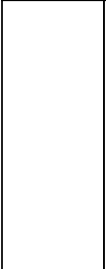
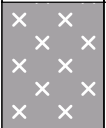
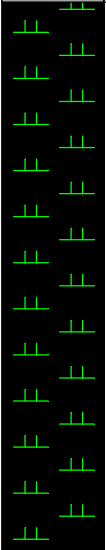
	Client: PPG Industries	BORING ID: 143-B7			
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-610791.8 Y-683056.5	Depth of Boring: 24.00			
End Date: 1/11/2007	Elevation: 14.07	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Coarse Gravel	0.0 ppm	143-B7A(0.4-0.8) 143-B7AD(0.4-0.8)	Cr+6, TAL Metals Cr+6, TAL Metals			
		FILL: Black (2.5YR 2.5/1) fine SAND, some fine to coarse Gravel, loose, no odor						
		FILL: Cobbles						
		2			FILL: Black (2.5YR 2.5/1) fine SAND, little fine gravel sized COPR (10%), no odor	0.0 ppm	143-B7B (1.8-2.4)	Cr+6, TAL Metals
						0.0 ppm	143-B7C (2.2-3.5)	Cr+6, TAL Metals
		4			FILL: Green-gray (2.5Y 3/1) coarse SAND, some fine Gravel and COPR (20%), little coarse Gravel, no odor	0.0 ppm		
					FILL: Coarse cobbles			
		6			NR: No Recovery	0.7 ppm		
					FILL: Black (10YR 2/1) fine SAND, some Silt, little coarse Gravel, no odor	0.2 ppm	143-B7E (5.9-6.6)	Cr+6, TAL Metals
					FILL: Reddish Brown (5YR 3/3) SILT/CLAY, some fine Gravel, no odor	0.0 ppm	143-B7F (6.9-7.4)	Cr+6, TAL Metals
8		NR: No Recovery						

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.


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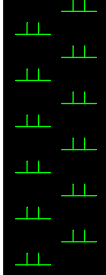
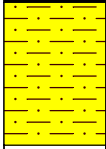
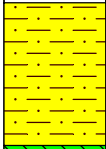
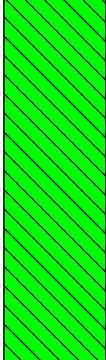
	Client: PPG Industries	BORING ID: 143-B7			
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610791.8 Y-683056.5	Depth of Boring: 24.00			
End Date: 1/11/2007	Elevation: 14.07	Geologist: P. Kelly			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Dark Gray (N3/gley) coarse SAND, some fine to coarse Gravel, loose, no odor	6.0 ppm	143-B7G (8.5-10.3)	Cr+6, TAL Metals
			0.0 ppm		
12		NR: No Recovery	0.0 ppm		
14		FILL: Dark Gray (N3/gley) coarse SAND, some fine to coarse Gravel, loose, no odor	0.0 ppm	143-B7H (13.1-13.7)	Cr+6, TAL Metals
			0.0 ppm		
16		PEAT: Meadow Mat, dark Brown (2.5YR 2.5/2) CLAY/Organics, strong odor	0.0 ppm		
			0.0 ppm		

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	Client: PPG Industries		BORING ID: 143-B7		
	Site: Site 143				
Start Date: 1/9/2007	Project: Site Investigation		Page: 3 of 3		
	Coordinates: X-610791.8 Y-683056.5		Depth of Boring: 24.00		
End Date: 1/11/2007	Elevation: 14.07		Geologist: P. Kelly		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

18			5.1 ppm		
		SILT: Dark Gray (gley N4) SILT, some Clay, little fine Sand, medium stiff, no odor	34.0 ppm	143-B7I (18.0-18.9)	Cr+6, TAL Metals
		NR: No Recovery	2.8 ppm		
20		SILT: Dark Gray (gley N4) SILT, some Clay, little fine Sand, medium stiff, no odor			
		CLAY: Dark Bluish Gray (5B 4/1) CLAY, some Silt, trace roots, no odor	0.6 ppm		
		NR: No Recovery	0.6 ppm		
24		NULL: End of Boring			

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Ground surface elevation = 10.662 ft NAVD88



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: B104

Sheet 1 of 1

Project: PPG Site 143	Drilling Company: SGS	Type of Surface Material:
Project Number:	Drilling Method: gloprobe	Patching Material:
Date Start Drilling: 11/10/2014	Rig Type:	Drilling Water Level:
Date Finished Drilling: 11/10/2014	Core Size: 3 inch	Boring Total Depth (bgs):
Physical Location: PPG Site 143		Logged By: S. PAIGE

Depth Range (ft)	Recovery (ft)	PID (ppm)	Moisture Content	GA Class.	USCS	United Soil Classification System	
						Ground Surface Cover and Thickness:	Sample Name:
0-2	2.0	0.0	dry	Fill	Fill	DGA	DGA
2-25	0.5	0.0	dry	fill	fill	crushed concrete	concrete (crushed)
25-45	2.0	0.7	dry	fill	fill	DGA	DGA
45-5.0	0.5	0.0	moist	fill	fill	trace coal, trace gravel, trace fine-med. sand, loose to med-dense, no odor no staining; 10YR3-1	Ash
5.0-10.0	5.0	0.7	moist	fill	fill	trace ash, trace wood fragments, trace shell ^{10YR5-2} fragments, trace debris, med-dense, no odor, _{10YR5-2} fine to med. silty SAND	

09:30 AM

Stratigraphic Unit Intervals:		Comments:	
1.)	4.)	6.5-7.0	(2) 8oz jar, (3) encore
2.)	5.)	4.5-5.0	(2) 8oz jar, (3) encore
3.)	6.)		



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(732) 564-3200 office telephone

Boring ID: B105

Sheet 1 of 1

Project: PPG Site 143	Drilling Company: SGS	Type of Surface Material:
Project Number:	Drilling Method: geo probe	Patching Material:
Date Start Drilling: 11/10/2014	Rig Type:	Drilling Water Level:
Date Finished Drilling: 11/10/2014	Core Size: 3 inch	Boring Total Depth (bgs):
Physical Location: PPG Site 143		Logged By: S. PAIGE

Depth Range (ft)	Recovery (ft)	PID (ppm)	Moisture Content	GA Class.	USCS	United Soil Classification System	
						Ground Surface Cover and Thickness:	Sample Name:
0.0-4.5	4.5	2.7	dry	fill	fill	DGA	DGA
4.5-5.0	0.5	0.0	moist	fill	fill	some ash, trace gravel, trace coal, loose to med. dense, no odor, no staining, 10YR 2-1	fine to med. SAND
5.0-8.5	3.5	0.0	moist	fill	fill	trace gravel, trace wood fragments, trace ash, med. dense, no odor, no staining, 10YR 3-2	fine to med SAND
8.5-10.0	1.5	0.0	moist	fill	fill	trace debris, trace coal, trace shell fragments, trace gravel, loose, 10YR 4-1, no odor, no staining	ASH
Stratigraphic Unit Intervals:						samples 4.5-5.0 } 6.5-7.0 } (2) 8oz jar; (3) encores	Comments:
1.)		4.)					
2.)		5.)					
3.)		6.)					



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Boring ID: B109

Sheet 1 of 1

Project: PPG Site 143	Drilling Company: <u>SGS</u>	Type of Surface Material:
Project Number:	Drilling Method: <u>geoprobe</u>	Patching Material:
Date Start Drilling: 11/10/2014	Rig Type:	Drilling Water Level:
Date Finished Drilling: 11/10/2014	Core Size: <u>3 inch</u>	Boring Total Depth (bgs):
Physical Location: PPG Site 143	Logged By: <u>S PAGE</u>	

Depth Range (ft)	Recovery (ft)	PID (ppm)	Moisture Content	GA Class.	USCS	United Soil Classification System	
						Ground Surface Cover and Thickness:	Sample Name:
0.0-5.0	5.0	0.0	dry	fill	fill	DGA	DGA
5.0-5.3	0.3	0.0	dry	fill	fill	DGA	DGA
5.3-7.5	2.2	0.0	moist	fill	fill	trace gravel, med. dense, no odor, no staining 10 YR 3-2	fine to med. SAND
7.5-8.0	0.5	0.0	moist to wet	fill	fill	trace debris, trace gravel, trace coal, trace crushed shell, loose, no staining, no odor, 10 YR 4-1	ASH
8.0-8.5	0.5	0.0	moist to wet	fill	fill	trace gravel, med. dense, no odor, no staining, 10 YR 3-2	fine to med SAND
8.5-10.0	1.5	0.0	moist	fill	fill	trace gravel, trace ceramics, trace metal, trace crushed shell, loose, no odor, no staining	ASH

10:32 AM

Stratigraphic Unit Intervals:				Comments:			
1.)		4.)		5.3-5.8 } (2) 8oz jar 7.3-7.8 } (3) encore			
2.)		5.)					
3.)		6.)					



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Boring ID: 114

Sheet 1 of 1

Project: PPG Site 143	Drilling Company: SGS	Type of Surface Material:
Project Number:	Drilling Method: geoprobe	Patching Material:
Date Start Drilling: 11/10/2014	Rig Type:	Drilling Water Level:
Date Finished Drilling: 11/10/2014	Core Size: 3 inch	Boring Total Depth (bgs):
Physical Location: PPG Site 143		Logged By: S. PAIGE

Depth Range (ft)	Recovery (ft)	PID (ppm)	Moisture Content	GA Class.	USCS	United Soil Classification System	
						Ground Surface Cover and Thickness:	Sample Name:
0.0-5.0	5.0	0.0	dry	fill	fill	DGA	DGA
5.0-10.0	5.0	0.0	dry	fill	fill	trace glass, trace coal, trace gravel, med. dense, no color, no staining, 10% R 3-2	fine to med. SAND

Stratigraphic Unit Intervals:		Comments: 5-5.5 } (2) 8oz jar 9.5-10.0 } (3) encore
1.)	4.)	
2.)	5.)	
3.)	6.)	

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610668.25
Date Started Drilling: 4/18/2013 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683232.3125
Date Finished Drilling: 4/18/2013 1:30:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A`16A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		2	ASPHALT		ASPHALT	143-P3A-A`16A-0.5-1.0
		0.0	slightly moist	3	FILL		fine to medium silty SAND, with coarse gravel, trace cinders, ash, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor, no staining.	
2-3	1.2	0.0	slightly moist	3	FILL		fine to medium silty SAND, with coarse gravel, trace cinders, ash, brick, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor, no staining.	143-P3A-A`16A-2.5-3.0
				NR	NR		NO RECOVERY	143-P3A-A`16A-2.5-3.0X
4-5	1.6	0.0	slightly moist	3	FILL		fine to medium silty SAND, with coarse gravel, trace cinders, ash, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor, no staining.	143-P3A-A`16A-4.5-5.0
				NR	NR		NO RECOVERY	
6-7	2	0.0	slightly moist	3	FILL		fine to medium silty SAND, with coarse gravel, trace cinders, ash, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor, no staining.	143-P3A-A`16A-6.5-7.0
		0.0	moist	3	FILL		SILT, with fine sand, little coal, (7.5YR 3/4) dark brown, non plastic, soft, moist, no odor, no staining.	
8-9	1	0.0	moist	3	FILL		SILT, with fine sand, (7.5YR 3/4) dark brown, low plasticity, soft, moist, no odor, no staining.	143-P3A-A`16A-8.5-9.0
				NR	NR		NO RECOVERY	
10-11	2	0.0	moist	3	FILL		SILT, with fine sand, (7.5YR 3/4) dark brown, low plasticity, soft, moist, no odor, no staining.	143-P3A-A`16A-10.5-11.0
		0.0	moist	3	FILL		fine SAND, trace roots, (10YR 5/6) yellowish brown, non plastic, loose, moist, no odor, no staining.	
12-13	2	0.0	moist	3	FILL		fine SAND, no coarse gravel, (10YR 4/6) dark yellowish brown, non plastic, loose, moist, no odor, no staining.	143-P3A-A`16A-12.5-13.0
14-15	2	0.0	moist	3	FILL		fine to medium SAND, with coarse gravel, (2.5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining.	143-P3A-A`16A-14.5-15.0
		0.0	moist	3	FILL		fine to medium SAND, with medium gravel, (2.5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining.	
16-17	2	0.0	moist	3	FILL		fine to medium SAND, with medium gravel, (2.5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining.	143-P3A-A`16A-16.3-16.8
		0.0	moist	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, moist, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`16A-16.8-17.3
18								

PPG - PPG_LOGS_GDT - 4/29/13 13:03

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610654.75
Date Started Drilling: 4/18/2013 1:35:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683205.5625
Date Finished Drilling: 4/19/2013 11:13:00 AM	Core Size: 3 in	Boring Total Depth: 20.5 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A`17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry to sl. moist	2	ASPHALT		ASPHALT	
		0.0		6	FILL		fine to medium silty SAND, some fine to coarse gravel, little cinders, coal, ash, (5YR 2.5/2) dark reddish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
2	1	0.0	dry	4B	FILL		fine to medium SAND, with COPR, little fine to medium gravel, (5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining.	
3		0.0	dry to sl. moist	6	FILL		fine to medium silty SAND, some fine to coarse gravel, little cinders, coal, ash, (5YR 2.5/2) dark reddish brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
4	1.4	0.0	moist	3	FILL		NO RECOVERY	
5		0.0	dry to sl. moist	3	FILL		SILT, with fine to medium sand, little coarse gravel, wood fragments, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	
6	1.4	0.0	moist	6	FILL		fine to medium silty SAND, some wood fragments, (7.5YR 3/2) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
7		0.0	dry to sl. moist	NR	NR		NO RECOVERY	
8	1.2	0.0	moist	6	FILL		fine to medium silty SAND, some coal, little ash, cinders, wood fragments, (7.5YR 3/2) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
9		0.0		NR	FILL		SILT, with fine sand, little coal, (7.5YR 4/3) brown, non plastic, soft, moist, no odor, no staining.	
10	0.7	0.0	moist	6	FILL		NO RECOVERY	
11		0.0		NR	NR		SILT, with fine sand, little coal, (7.5YR 4/3) brown, non plastic, soft, moist, no odor, no staining.	
12	2	0.0	slightly moist	3	FILL		NO RECOVERY	
13		0.0	moist	3	FILL		SILT, with fine sand trace roots, (10YR 5/8) yellowish brown, low plasticity, soft, slightly moist, no odor, no staining.	143-P3A-A`17A-12.5-13.0
14	2	0.0	moist	3	FILL		fine to coarse SAND, with fine to coarse gravel, (2.5YR 3/4) dark reddish brown, non plastic, loose, moist.	143-P3A-A`17A-14.0-14.5
15		0.0	dry	10	SM		fine to coarse SAND, with fine to coarse gravel, (5YR 6/3) light reddish brown, non plastic, loose, moist.	143-P3A-A`17A-14.0-14.5X
16	2	0.0	dry	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`17A-14.5-15.0
17		0.0	dry	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`17A-16.5-17.0
18	2	0.0	dry	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, dry no odor, no staining. Soils consistent with UNDno.	143-P3A-A`17A-18.5-19.0
19		0.0	dry	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`17A-20.0-20.5
20	0.5	0.0	dry	10	SM		UNDno fine to coarse SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`17A-20.0-20.5

PPG - PPG_LOGS_GDT - 4/29/13 13:03

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610649.3125
Date Started Drilling: 4/17/2013 11:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683174.6875
Date Finished Drilling: 4/17/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 14 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A`18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	2	ASPHALT		ASPHALT	
		0.0		6	FILL			
2-3	1	0.0	dry	6	FILL		fine silty SAND, some fine to coarse gravel, little ash, cinders, (2.5YR 4/3) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
				NR	NR			
4-5	1.4	0.0	dry	6	FILL		fine to medium silty SAND, some fine to coarse gravel, little coal, cinders, ash, trace glass, (2.5YR 4/3) reddish brown, non plastic, loose to soft, dry, no odor, no staining.	
				NR	NR			
6-7	1.7	0.0	moist	6	FILL		SILT, with fine sand, some, fine to coarse gravel trace ash, coal, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	
				6	FILL			
8-9	1.6	0.0	slightly moist	6	FILL		SILT, with fine sand, some, fine to coarse gravel, trace ash, coal, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	143-P3A-A`18A-8.0-8.5
		0.0	moist	NR	NR			
10-11	2	0.0	moist	3	FILL		SILT, with fine to medium sand, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining.	143-P3A-A`18A-10.4-10.9
				9	OL			
12-13	1.6	0.0	slightly moist	10	MH		UNDorg SILT, 95% organic silt, 5% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft to stiff, moist, slight organic odor. Soils consistent with UNDorg.	
				NR	NR			
14				NR	NR		NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610635.8125
Date Started Drilling: 4/2/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683147.9375
Date Finished Drilling: 4/2/2014 11:20:00 AM	Core Size: 2 in	Boring Total Depth: 20.5 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A`19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	5	0.0	moist to wet	3	FILL		sandy SILT, trace cinders, ash, (7.5YR 4/2) brown, soft, moist to wet, no odor, no staining.	143-P3A-A`19A-0.2-0.7 143-P3A-A`19A-2.2-2.7 143-P3A-A`19A-4.2-4.7
5-8	5	0.0	moist to wet	3	FILL		fine to medium silty SAND, trace, (7.5YR 3/2) dark brown, dense, moist to wet, no odor, no staining.	143-P3A-A`19A-6.2-6.7 143-P3A-A`19A-7.8-8.3
8-9		0.0	moist	10	SP-SM		UNDno fine SAND, some silt, (10YR 6/2) light brownish gray, dense, moist, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`19A-8.3-8.8
9-11		0.0	moist	10	SP-SM		UNDno fine to medium SAND, some silt, little sandstone fragments, gravel, (10YR 4/2) dark grayish brown, dense, moist, no odor, no staining, slight teal staining, may indicate impacted soil due to groundwater.	143-P3A-A`19A-10.2-10.7
11-14	5	0.0	moist to wet	10	SP-SM		UNDno fine to coarse SAND, with fine to coarse gravel, trace silt, loose to hard, moist to wet, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`19A-12.2-12.7 143-P3A-A`19A-14.2-14.7
14-16		0.0	moist to wet	10	SP		UNDno fine to coarse SAND, with fine to coarse gravel, trace silt, loose to hard, moist to wet, no odor, no staining. Soils consistent with UNDno.	143-P3A-A`19A-16.2-16.7
16-20	5	0.0	moist to wet	10	SP			

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Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610695.0625
Date Started Drilling: 8/28/2013 8:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683219
Date Finished Drilling: 8/28/2013 9:00:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A16A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-5	4.5	0.0		1	CONCRETE		CONCRETE		
		0.0	dry	3	FILL		medium to coarse SAND, with fine to coarse gravel, (7.5YR 7/1) light gray, non plastic, loose, dry, no odor, no staining.		
		0.0	dry	4B	FILL				
		0.0	dry	3	FILL		fine to medium SAND, with some COPR, (5YR 3/3) dark reddish brown, non plastic, soft to loose, dry, no odor, no staining.	143-P3A-A16A-2.0-2.5	
		0.0	dry	3	FILL		medium SAND, little silt and fine gravel, (10YR 3/4) dark yellowish brown, non plastic, soft, dry to moist, no odor, no staining.	143-P3A-A16A-4.0-4.5	
5				NR	NR		NO RECOVERY	143-P3A-A16A-4.0-4.5X	
6-9	4.1	0.0	dry	3	FILL		medium SAND, little silt and fine gravel, (10YR 3/4) dark yellowish brown, non plastic, soft, dry to moist, no odor, no staining.	143-P3A-A16A-6.0-6.5	
		0.0	dry	3	FILL		fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, soft, dry, no odor, no staining.		
		0.0	moist	3	FILL				
		0.0	moist	3	FILL		fine SAND, and silt, trace very fine gravel, (7.5YR 5/1) gray, non plastic, soft, moist to wet, no odor, no staining.	143-P3A-A16A-8.0-8.5	
9			wet	3	FILL		fine to medium SAND, with silt, little fill material, (7.5YR 3/1) very dark gray, non plastic, soft, wet, no odor, no staining.		
9				NR	NR		NO RECOVERY		
10-15	4.5	0.0	moist	3	FILL		NO RECOVERY	143-P3A-A16A-10.0-10.5	
							fine SAND, and silt, trace very fine gravel, (7.5YR 4/1) dark gray, non plastic, soft, moist.		
									143-P3A-A16A-12.0-12.5
		0.0	moist	3	FILL		SILT, trace fine sand, (7.5YR 5/1) gray, non plastic, soft, moist to wet, no odor, no staining.	143-P3A-A16A-14.0-14.5	
15				NR	NR		NO RECOVERY		
16-19	4.6	0.0	moist	3	FILL		SILT, trace fine sand, (7.5YR 5/1) gray, non plastic, soft, moist to wet, no odor, no staining.	143-P3A-A16A-16.0-16.5	
		0.0	dry	3	FILL		medium SAND, with angular gravel, (10YR 5/4) yellowish brown, non plastic, soft, dry to moist, no odor, no staining.	143-P3A-A16A-17.5-18.0	
		0.0	moist	9	ML-SM		UNDno medium to coarse SAND, with fine to medium gravel, (5YR 5/3) reddish brown, non plastic, soft to loose, moist to wet, no odor, no staining. Soils consistent with UNDno.	143-P3A-A16A-18.0-18.5	
19				NR	NR		NO RECOVERY		
20									

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610681.5
Date Started Drilling: 4/17/2013 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683192.0625
Date Finished Drilling: 4/17/2013 11:35:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.6	0.0		2	ASPHALT		ASPHALT	
		0.0	dry	3	FILL		fine silty SAND, with fine to coarse gravel, trace glass, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	4B	FILL		fine to medium SAND, with COPR and brick, little fine to coarse gravel, brick, (2.5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining.	
		0.0	slightly moist	4B	FILL		fine to medium SAND, with COPR and brick, little fine to coarse gravel, brick, (2.5YR 4/3) reddish brown, non plastic, loose, dry, no odor, no staining.	
2		0.0	dry	3	FILL		fine silty SAND, little coal, cinders, trace brick, COPR, (7.5YR 2.5/3) very dark brown, non plastic, loose to soft, slightly moist, no odor, no staining.	143-P3A-A17A-2.5-3.0
3	1.8						NO RECOVERY	
4		0.0	dry	NR	NR		fine SAND, some fine to coarse gravel, little coal, cinders, brick, trace wood fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	143-P3A-A17A-4.0-4.5
5	2			6	FILL		NO RECOVERY	
6		0.0		6	FILL		fine SAND, some fine to coarse gravel, little coal, cinders, brick, trace wood fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	
7	1.1		slightly moist	6	FILL		fine silty SAND, some fine to coarse gravel, little cinders, coal, wood fragments, brick, (10YR 4/2) dark grayish brown, non plastic, loose to soft.	143-P3A-A17A-6.5-7.0
8		0.0	slightly moist	NR	NR		SILT, and wood fragments, trace cinders, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, no odor, no staining.	
9	1		slightly moist	3	FILL		NO RECOVERY	143-P3A-A17A-8.5-9.0
10		0.0		NR	NR		fine silty SAND, (7.5YR 5/3) brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
11	2		moist to saturated	3	FILL		SILT, trace fine sand, (7.5YR 4/3) brown, low plasticity, soft to stiff, moist to saturated, no odor, no staining.	143-P3A-A17A-10.5-11.0
12		0.0	moist to saturated	3	FILL		SILT, trace fine sand, (7.5YR 4/3) brown, low plasticity, soft to stiff, moist to saturated, no odor, no staining.	143-P3A-A17A-12.0-12.5
13	1.3		moist to saturated	9	OL		UNDorg SILT, 95% organic silt, 5% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	143-P3A-A17A-12.5-13.0
14		0.0	moist	10	MH			
15	1		dry	NR	NR		UNDno sandy SILT, trace roots, (10YR 5/4) yellowish brown, non plastic, loose to soft, dry, slightly moist, no odor, no staining. Soils consistent with UNDno.	
							NO RECOVERY	
							UNDno sandy SILT, trace roots, (10YR 5/4) yellowish brown, non plastic, loose to soft, dry, slightly moist, no odor, no staining. Soils consistent with UNDno.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610668
Date Started Drilling: 4/16/2013 1:40:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683165.1875
Date Finished Drilling: 4/17/2013 9:30:00 AM	Core Size: 3 in	Boring Total Depth: 14 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0	dry dry	2	ASPHALT		ASPHALT	
		0.0		3	FILL		fine to medium SAND, with coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose to hard, dry, no odor, no staining.	
		0.0		3	FILL		crushed CONCRETE, some fine sand, (9/10YR /1) white, non plastic, loose to hard, dry, no odor, no staining.	
2	1.8	0.0	slightly moist slightly moist	NR	NR		NO RECOVERY	
		0.0		3	FILL		fine to medium GRAVEL, little fine sand, trace cinders, (2.5YR 3/4) dark reddish brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0		6	FILL		NO RECOVERY	
4	1.2	0.0	moist moist	NR	NR		NO RECOVERY	
		0.0		3	FILL		fine silty SAND, some fine to medium gravel, little coal, trace brick, glass, non plastic, loose to soft, slightly moist, no odor, no staining.	
		0.0		3	FILL		NO RECOVERY	
6	1.4	0.0	moist	NR	NR		NO RECOVERY	
		0.0		3	FILL		fine silty SAND, little fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose to soft, moist, no odor, no staining.	
		0.0		3	FILL		SILT, some fine sand, little fine to coarse gravel, (2.5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	
8	2	0.0	moist	3	FILL		NO RECOVERY	143-P3A-A18A-8.0-8.5
		0.0		3	FILL		SILT, some fine sand, some fine to coarse gravel, (10YR 5/4) yellowish brown, non plastic, soft, moist, no odor, no staining.	
		0.0		6	FILL		fine to medium SAND, with fine to coarse gravel, little silt, (10YR 3/4) dark yellowish brown, non plastic, loose, moist, no odor, no staining.	
10	2	0.0	moist	3	FILL		NO RECOVERY	143-P3A-A18A-10.0-10.5
		0.0		3	FILL		fine silty SAND, with coarse gravel, (5YR 5/3) reddish brown, non plastic, loose to soft, moist, no odor, no staining.	
		0.0		3	FILL		SILT, some fine sand, (10YR 5/6) yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	
12	2	0.0	moist	3	FILL		NO RECOVERY	143-P3A-A18A-12.0-12.5
		0.0		3	FILL		CINDERS, some coal, little fine sand, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
		0.0		3	FILL		NO RECOVERY	
13	2	0.0	moist	3	FILL		NO RECOVERY	143-P3A-A18A-12.5-13.0
		0.0		3	FILL		fine silty SAND, some fine sand, (10YR 5/6) yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	
		1.4		9	OL		SILT, little roots, (10YR 4/2) dark grayish brown, non plastic, loose to soft, moist, no odor, no staining.	
14							NO RECOVERY	143-P3A-A18A-13.0-13.5
							SILT, some fine to medium sand, some fine to coarse gravel, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining.	
							fine silty SAND, some fine sand, (7.5YR 4/3) brown, non plastic, loose to soft, moist, no odor, no staining.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610654.625
Date Started Drilling: 4/15/2013 1:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683138.375
Date Finished Drilling: 4/16/2013 9:15:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	2	ASPHALT		ASPHALT	
		0.0		3	FILL		fine to medium SAND, with fine to coarse gravel, trace silt, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor, no staining.	
		0.0		4B	FILL		fine to medium SAND, with COPR little coal, cinders, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
2-3	1.4	0.0	slightly moist	6	FILL		fine silty SAND, little ash, cinders, coal, trace wood fragments, (7.5YR 2.5/2) very dark brown, non plastic, loose to soft, slightly moist, no odor, no staining.	143-P3A-A19A-2.5-3.0
		0.0		6	FILL		SILT, little fine to coarse gravel, trace coal, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	
4-5	1.3	0.0	moist	NR	NR		NO RECOVERY	143-P3A-A19A-4.5-5.0
				6	FILL		SILT, little fine to coarse gravel, trace ash, coal, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	
6-7	2	0.0	saturated	3	FILL		NO RECOVERY	143-P3A-A19A-6.5-7.0
				6	FILL		SILT, little fine to coarse gravel, little fine to medium sand, (7.5YR 3/3) dark brown, low plasticity, soft, saturated, no odor, no staining.	
8-9	2	0.0	moist	3	FILL		fine silty SAND, trace roots, (10YR 4/2) dark grayish brown, non plastic, loose to soft, moist, no odor, no staining.	143-P3A-A19A-8.5-9.0
		0.0		6	FILL		fine silty SAND, little ash, cinders, coal, trace roots, (7.5YR 3/3) dark brown (10YR 4/2) dark grayish brown, non plastic, soft to dense, moist, no odor, no staining.	
10-11	2	0.0	moist	3	FILL		fine to medium silty SAND, trace roots, (7.5YR 3/3) dark brown (10YR 4/2) dark grayish brown, non plastic, soft to dense, moist, no odor, no staining.	143-P3A-A19A-10.5-11.0 143-P3A-A19A-10.5-11.0X
12-13	2	0.0	moist	3	FILL		SILT, little fine to medium sand, little roots, (7.5YR 3/3) dark brown (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, no odor, no staining.	143-P3A-A19A-12.8-13.3
				1.0	moist		9	OL
2.1	dry	7	PT	PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.				
0.0	moist	10	MH	UNDno SILT, 75% inorganic silt, 15% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.				
14-15	1	0.0	moist	10	MH		UNDno SILT, 75% inorganic silt, 15% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
		0.0						

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610640.9375
Date Started Drilling: 4/15/2013 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683111.625
Date Finished Drilling: 4/15/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 20.5 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - A20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0	slightly moist dry	2	ASPHALT		ASPHALT	143-P3A-A20A-0.5-1.0
		0.0		3	FILL		fine silty SILT, little fine gravel, trace cinders, (7.5YR 3/4) dark brown, non plastic, soft, slightly moist, no odor, no staining.	
		0.0		3	FILL		crushed CONCRETE, little fine sand, little fine to coarse gravel, (10YR 8/1) white, non plastic, loose to hard, dry, no odor, no staining.	
2	1.6	0.0	dry	NR	NR		NO RECOVERY	143-P3A-A20A-2.5-3.0
		0.0		3	FILL		crushed CONCRETE, little brick, trace cobbles, (5YR 4/3) reddish brown, non plastic, hard, dry, no odor, no staining.	
		0.0		6	FILL		NO RECOVERY	
3	1.6	0.0	moist	3	FILL		crushed CONCRETE, little brick, trace cobbles, (5YR 4/3) reddish brown, non plastic, hard, dry, no odor, no staining.	143-P3A-A20A-4.5-5.0
		0.0		NR	NR		NO RECOVERY	
		0.0		NR	NR		NO RECOVERY	
4	1	0.0	moist	3	FILL		fine to medium SAND, with coal and cinders, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	143-P3A-A20A-4.5-5.0
		0.0		NR	NR		SILT, little fine to medium sand, little fine to coarse gravel, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	
		0.0		NR	NR		NO RECOVERY	
5	1.4	0.0	moist	6	FILL		SILT, little fine to medium sand, little fine to coarse gravel, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	143-P3A-A20A-6.5-7.0
		0.0		NR	NR		NO RECOVERY	
		0.0		NR	NR		NO RECOVERY	
6	1.4	0.0	moist	6	FILL		ASH, with coal, cinder, ceramics and fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-A20A-8.5-9.0
		0.0		NR	NR		NO RECOVERY	
		0.0		NR	NR		NO RECOVERY	
7	1	0.0	dry	6	FILL		ASH, with coal, cinder, ceramics and fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-A20A-10.5-11.0
		0.0		6	FILL		NO RECOVERY	
		0.0		6	FILL		ASH, with coal, cinder, ceramics and fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
8	2	0.0	moist	6	FILL		SILT, little fine to medium sand, trace ash, roots, (7.5YR 4/3) brown, low plasticity soft, moist, no odor, no staining.	143-P3A-A20A-12.5-13.0
		0.0		6	FILL		SILT, little fine to medium sand, trace ash, (7.5YR 4/3) brown, low plasticity, soft, moist, no odor, no staining.	
		0.0		6	FILL		SILT, little fine to medium sand, trace ash, roots, (7.5YR 4/3) brown, low plasticity soft, moist, no odor, no staining.	
9	2	0.0	moist	3	FILL		sandy SILT, little roots, trace fine to coarse gravel, (10YR 5/6) yellowish brown, low plasticity, soft, moist, no odor, no staining.	143-P3A-A20A-14.5-15.0
		0.0		3	FILL		sandy SILT, little fine to coarse gravel, (5YR 4/6) yellowish red (10YR 5/6) yellowish brown, low plasticity, soft, moist, no odor, no staining.	
		0.0		3	FILL		SILT, little fine sand, little fine to coarse gravel, (10YR 5/2) grayish brown, low plasticity, soft, moist, no odor, no staining.	
10	2	0.0	moist	3	FILL		fine to medium SAND, with fine to coarse gravel, little silt, (5YR 4/3) reddish brown, non plastic, loose to hard, dry, no odor, no staining.	143-P3A-A20A-18.5-19.0
		0.0		3	FILL		SILT, little fine sand, little fine to coarse gravel, (10YR 5/2) grayish brown, low plasticity, soft, moist, no odor, no staining.	
		0.0		3	FILL		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	
11	2	0.0	dry	10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A20A-19.0-19.5
		0.0		10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	
		0.0		10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	
12	0.5	0.0	dry	10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	143-P3A-A20A-20.0-20.5
		0.0		10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	
		0.0		10	SM		fine to medium SAND, with fine to coarse gravel, (2.5YR 4/8) red, non plastic, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.	

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Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610721.8125
Date Started Drilling: 8/27/2013 11:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683205.3125
Date Finished Drilling: 8/27/2013 1:30:00 PM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - B16A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		CONCRETE	
1	5	0.0	dry	6	FILL		CINDERS, and coal slag with trace ash, coal dust and glass fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose to medium dense, dry, no odor, no staining.	143-P3A-B16A-0.8-1.3
2		0.0	dry	3	FILL		SILT, with some fine sand, and traces of poorly graded gravel, (7.5YR 5/8) strong brown, non plastic, loose to medium dense, dry to slightly moist, no odor, no staining.	143-P3A-B16A-2.5-3.0
3		0.0	dry	3	FILL		SILT, with some fine sand, and traces of poorly graded gravel, (7.5YR 5/8) strong brown, non plastic, loose to medium dense, dry to slightly moist, no odor, no staining.	143-P3A-B16A-4.5-5.0
4	4	0.0	dry	3	FILL		SILT, with some fine sand, and traces of poorly graded gravel, (7.5YR 5/8) strong brown, non plastic, loose to medium dense, dry to slightly moist, no odor, no staining.	143-P3A-B16A-6.5-7.0
5		0.0	moist	3	FILL		SILT, with coal dust, some cinders and trace ash, (7.5YR 2.5/1) black, low plasticity, loose to medium dense, moist to wet, no odor, no staining.	143-P3A-B16A-8.5-9.0
6					NR	NR		NO RECOVERY
7	5	0.0	wet	3	FILL		SILT, with trace sand, (7.5YR 5/1) gray, low plasticity, soft, wet, no odor, no staining.	143-P3A-B16A-10.5-11.0
8		0.0	moist	9	OL		SILT, with trace organics, (7.5YR 3/1) very dark gray, medium plasticity, soft, moist to wet, moderate organic odor, no staining. Soils consistent with UNDorg.	143-P3A-B16A-12.3-12.8
9		0.0	wet	9	ML-SM		sandy SILT, with traces of clay, (7.5YR 6/1) gray, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	143-P3A-B16A-12.8-13.3
10								
11								
12								
13								
14								
15								

PPG - PPG_LOGS_GDT - 9/20/13 13:11

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610708.3125
Date Started Drilling: 8/27/2013 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683178.5625
Date Finished Drilling: 8/27/2013 10:50:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - B17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	4.8	0.0	dry	FILL		fine to medium SAND, little crushed concrete, trace fill material, (7.5YR 3/4) dark brown, non plastic, loose to soft, dry, no odor, no staining.	143-P3A-B17A-0.7-1.2
2							143-P3A-B17A-2.0-2.5
3							143-P3A-B17A-2.0-2.5X
4							143-P3A-B17A-4.0-4.5
5	3.6	0.0	moist	NR FILL		NO RECOVERY fine to medium SAND, with fine to medium gravel, trace silt, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining.	143-P3A-B17A-6.0-6.5
6							
7							
8							
9				NR		NO RECOVERY	
10	4	0.0	moist	FILL		SILT, trace sand, trace clay, (7.5YR 6/1) gray, medium plasticity, moist, no odor, no staining.	143-P3A-B17A-10.0-10.5
11							
12							
13					OL		UNDorg SILT, with trace organics, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.
14		0.0	moist	MH NR		UNDno SILT, with roots, (7.5YR 5/1) gray, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDno.	
15						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610694.8125
Date Started Drilling: 5/30/2013 7:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683151.75
Date Finished Drilling: 5/31/2013 8:15:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - B18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	ASPHALT		ASPHALT	
		0.0		FILL		fine to medium silty SAND, with fine to coarse gravel, (10YR 4/4) dark yellowish brown, non plastic loose, slightly moist, no odor, no staining.	
2	2	0.0	dry	FILL		fine to medium silty SAND, some COPR, little fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	143-P3A-B18A-2.5-3.0
3		0.0		FILL		fine to medium silty SAND, fine gravel, little coal, cinders, fill material, (7.5YR 2.5/2) very dark brown, non plastic loose, dry, no odor, no staining.	
4	1.5	0.0	moist	FILL		fine GRAVEL, some coal slag, little cinders, (7.5YR 2.5/2) very dark brown, non plastic, loose, moist, no odor, no staining.	143-P3A-B18A-4.5-5.0
5		0.0		NR		NO RECOVERY	
6	1.7	0.0	moist	FILL		fine GRAVEL, some coal slag, little cinders, (7.5YR 2.5/2) very dark brown, non plastic, loose, moist, no odor, no staining.	143-P3A-B18A-6.5-7.0
7		0.0		FILL		SILT, some fine sand, little fine gravel, wood fragments, (10YR 3/6) dark yellowish brown, low plasticity, soft to stiff, moist, no odor, no staining.	
8	1.8	0.0	moist	NR		NO RECOVERY	143-P3A-B18A-8.5-9.0
9		0.0		FILL		SILT, some fine sand, little fine to coarse gravel, wood fragments, (10YR 3/6) dark yellowish brown, low plasticity, soft to stiff, moist, no odor, no staining.	
10	2	0.0	moist	NR		NO RECOVERY	143-P3A-B18A-10.5-11.0
11		0.0		FILL		SILT, some fine sand, little fine to coarse gravel, wood fragments, trace roots, (10YR 3/6) dark yellowish brown, low plasticity, soft to stiff, moist, no odor, no staining.	
12	2	0.0	moist	FILL		SILT, some fine sand, little fine to coarse gravel, wood fragments, trace roots, (10YR 3/6) dark yellowish brown, low plasticity, soft to stiff, moist, no odor, no staining.	143-P3A-B18A-12.0-12.5
13		0.0		OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor. Soils consistent with UNDorg.	143-P3A-B18A-12.8-13.3
14	1	1.9	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, dry, slight organic odor. Soils consistent with MM.	143-P3A-B18A-13.3-13.8
15		2.0		PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, dry, slight organic odor. Soils consistent with MM.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610681.3125
Date Started Drilling: 5/30/2013 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683125
Date Finished Drilling: 5/30/2013 11:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - B19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		fine to coarse silty SAND, some gravel, little cinders, (10YR 3/2) very dark grayish brown, non plastic, loose, dry.	
2	2	17.7	slightly moist	FILL		fine to medium silty SAND, some gravel, little COPR, little cinders, (7.5YR 4/3) brown, non plastic, loose, slightly moist.	143-P3A-B19A-2.5-3.0
3		0.0	slightly moist	FILL		COPR, some silt, (7.5YR 5/1) gray, non plastic, loose, slightly moist.	
4		0.0	slightly moist	FILL		fine CINDERS, some fine to medium sand, (10YR 2/1) black, non plastic, medium dense, slightly moist.	
5		0.0	moist	FILL		fine silty SAND, some gravel, little cinders, (7.5YR 4/3) brown, non plastic, medium dense, slightly moist.	
6	2	0.0	moist	FILL		fine silty SAND, little medium to coarse sand, little gravel, (2.5Y 5/2) grayish brown, non plastic, medium dense, moist.	143-P3A-B19A-4.5-5.0
7		0.0	wet	FILL		fine to medium silty SAND, some gravel, (7.5YR 3/2) dark brown, non plastic, loose, moist.	
8	2	0.0	wet	FILL		fine to medium silty SAND, some gravel, little clay, (7.5YR 5/2) brown, low plasticity, loose, moist.	143-P3A-B19A-6.5-7.0
9		0.0	moist	FILL		fine to medium silty SAND, some gravel, little clay, (7.5YR 5/2) brown, medium plasticity, loose, wet.	
10		0.0	moist	FILL		fine to medium silty SAND, little gravel, little clay, (7.5YR 5/2) brown, low plasticity, loose, wet.	
11	1.8	0.0	wet	FILL		fine silty SAND, trace cinders, (7.5YR 5/2) brown, non plastic, loose, moist.	143-P3A-B19A-10.5-11.0
12		0.0	moist	FILL		fine to coarse CINDERS, some gravel, trace metal, (10YR 2/1) black, non plastic, dense, moist.	
13	2	0.0	wet	NR		NO RECOVERY	143-P3A-B19A-12.5-13.0
14		0.0	moist	FILL		fine silty SAND, some gravel, little clay, trace cinders, (7.5YR 5/2) brown, low plasticity, loose, wet.	
15	1.5	0.0	moist	PT		CINDERS, some ash, little wood fragments, trace metal, (10YR 2/1) black, non plastic, medium dense, moist.	143-P3A-B19A-13.0-13.5
16		0.0	moist	PT		SILT, some clay, (10YR 4/2) dark grayish brown, high plasticity, soft, moist.	
				NR		NO RECOVERY	143-P3A-B19A-13.5-14.0
						medium SAND, trace metal, (10YR 4/2) dark grayish brown, non plastic, loose, wet.	
						SILT, little roots, little fine to medium sand, (10YR 4/2) dark grayish brown, low plasticity, loose, moist.	
						PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 2/2) very dark brown, low plasticity, loose, moist, slight sulfur odor. Soils consistent with MM.	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate sulfur odor. Soils consistent with MM.	
						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610668
Date Started Drilling: 4/16/2013 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683099
Date Finished Drilling: 4/16/2013 11:30:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - B20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0		1	CONCRETE		CONCRETE	
		0.0	dry	4B	FILL		fine to medium SAND, with fine to coarse gravel, little coal, cinders, trace COPR, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining.	
		0.0	moist	4A	FILL		COPR, some fine sand, little silt, (5YR 4/3) reddish brown, non plastic, loose to soft, moist, no odor, green staining.	
2-3	1.5	0.0	moist	NR	NR		NO RECOVERY	143-P3A-B20A-2.5-3.0
				6	FILL		fine to medium silty SAND, some fine to coarse gravel, trace ash, coal, cinders, brick, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	
4-5	1.4	0.0	moist	NR	NR		NO RECOVERY	143-P3A-B20A-4.5-5.0
				3	FILL		SILT, some fine sand, trace fine to coarse gravel, (10YR 5/2) grayish brown, non plastic, soft, moist, no odor, no staining.	
6-7	1	0.0	moist	6	FILL		fine SAND, some ash, little cinders, coal, (10YR 4/2) dark grayish brown, non plastic, loose, moist, no odor, no staining.	143-P3A-B20A-6.5-7.0
				NR	NR		NO RECOVERY	
8-9	1.2	0.0	moist	6	FILL		ASH, some fine sand, medium gravel, some coal, cinders, trace glass, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	143-P3A-B20A-8.5-9.0
				NR	NR		NO RECOVERY	
10-11	1.6	0.0	moist	6	FILL		ASH, some fine sand, medium gravel, some coal, cinders, trace glass, (7.5YR 5/1) gray, non plastic loose, moist, no odor, no staining.	143-P3A-B20A-10.5-11.0
				NR	NR		NO RECOVERY	
12-13	1.6	0.0	moist	6	FILL		fine to medium SAND, little silt, trace ash, coal, cinders, (7.5YR 3/4) dark brown, non plastic, loose to soft, moist, no odor, no staining.	143-P3A-B20A-12.6-13.1
				9	OL		UNDorg SILT, 80% organic, silt 20% organic fibers, roots, (7.5YR 3/4) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	143-P3A-B20A-13.1-13.6
14-15	2	1.9	slightly moist	NR	NR		NO RECOVERY	
		0.0	moist	7	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	
15-16		0.0	moist	10	MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, low plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610748.625
Date Started Drilling: 8/29/2013 8:16:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683191.8125
Date Finished Drilling: 8/29/2013 9:25:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - C16A		














(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		fine to medium SAND, little COPR, little fill material, (5YR 2.5/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, with cinders, little ash, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining, some coal.	143-P3A-C16A-2.0-2.5
		0.0	moist	FILL		fine SAND, and silt, (7.5YR 4/6) strong brown, non plastic, soft, moist, no odor, no staining.	143-P3A-C16A-4.0-4.5 143-P3A-C16A-4.0-4.5X
5-9	3.8	0.0	dry	FILL		medium SAND, with fine to coarse gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	moist	FILL		fine to medium SAND, with silt, little cinders, (7.5YR 2.5/1) black, non plastic, soft, moist to wet, no odor, no staining.	143-P3A-C16A-6.0-6.5
		0.0	wet	FILL		SILT, with fine sand and fill material, (7.5YR 2.5/1) black, non plastic, soft, wet, no odor, no staining, with trace wood fragments.	143-P3A-C16A-8.0-8.5
				NR		NO RECOVERY	
10-14	4.2	0.0	wet	FILL		medium to coarse SAND, with cinders and ash, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	143-P3A-C16A-10.0-10.5
		0.0	wet	FILL		fine to medium SILT, with fine sand and fine to medium gravel, (7.5YR 4/4) brown, non plastic, soft, wet, no odor, no staining.	143-P3A-C16A-12.0-12.5 143-P3A-C16A-12.7-13.2
		1.9	moist	PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-C16A-13.2-13.7
				NR		NO RECOVERY	
15							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610735.125
Date Started Drilling: 8/29/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683165.0625
Date Finished Drilling: 8/29/2013 11:50:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - C17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		fine to medium SAND, little crushed COPR, (5YR 3/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	143-P3A-C17A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, with silt and fill material, (7.5YR 4/2) brown, non plastic, soft, dry to moist, no odor, no staining, some fine to medium gravel.	143-P3A-C17A-3.0-3.5
5	4.5	0.0	dry	FILL		medium SAND, with cinders and crushed coal, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	wet	FILL		fine to medium silty SAND, with wood fragments and fill material, (7.5YR 2.5/3) very dark brown, non plastic, soft, wet, no odor, no staining.	143-P3A-C17A-5.0-5.5
		0.0	wet	FILL		medium SAND, with silt and fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, soft, wet, no odor, no staining.	143-P3A-C17A-7.0-7.5
9	4.5	0.0	wet	FILL		fine to medium SAND, and silt with fine gravel, (7.5YR 4/1) dark gray, non plastic, soft to loose, wet, no odor, no staining.	143-P3A-C17A-9.0-9.5
		0.0	moist	FILL		medium SAND, with very fine gravel, (7.5YR 3/2) dark brown, non plastic, loose, moist, no odor, no staining.	
		0.0	moist	FILL		medium to coarse SAND, with very fine gravel and ash, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-C17A-11.0-11.5
13	4.5	0.0	moist	FILL		medium to coarse SAND, with very fine gravel and ash, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
		0.0	moist	FILL		fine SAND, and silt little roots, (7.5YR 3/4) dark brown, soft, moist, no odor, no staining.	143-P3A-C17A-13.0-13.5
14	4.5	2.2	moist	PT		PEAT (degraded vegetated material), with 80 % organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-C17A-13.5-14.0
				NR		NO RECOVERY	
15						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610721.625
Date Started Drilling: 8/23/2013 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683138.25
Date Finished Drilling: 8/23/2013 1:06:00 PM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - C18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	5	0.0	dry	FILL		CINDERS, with coal dust, slag, ash, gravel, (7.5YR 2.5/1) black, non plastic, loose to dense, dry, no odor, no staining.	
5-10	5	0.0	wet	FILL		SILT, with cinders, ash and coal slag, (7.5YR 6/4) light brown, non plastic, loose to dense, wet, no odor, no staining.	143-P3A-C18A-5.0-5.5 143-P3A-C18A-7.0-7.5 143-P3A-C18A-9.0-9.5
10-13	5	0.0	dry	FILL		CINDERS, with coal dust, slag, ash, gravel, (7.5YR 2.5/1) black, non plastic, loose to dense, dry, no odor, no staining.	143-P3A-C18A-11.0-11.5
13-14		2.1	moist	PT		PEAT (degraded vegetated material), organic fibers 80%, organic silt 20%, (7.5YR 3/1) very dark gray, non plastic, loose to medium dense, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-C18A-13.0-13.5 143-P3A-C18A-13.5-14.0
14-15							

PPG - PPG_LOGS.GDT - 9/20/13 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610708.125
Date Started Drilling: 5/30/2013 12:40:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683111.5
Date Finished Drilling: 5/30/2013 1:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - C19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little weathered concrete, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	
		331	dry	FILL			
2	2	0.0	moist	FILL		COPR, little silt, (10YR 4/2) dark grayish brown, low plasticity, loose, moist.	
		0.0	moist	FILL			
3	2	5.7	moist	FILL		fine to medium silty SAND, some cinders, little ash, little gravel, little wood, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist.	143-P3A-C19A-3.0-3.5
4	0.9	2.0	moist to wet	FILL		fine to medium silty SAND, some ash, little gravel, little cinders, (10YR 3/2) very dark grayish brown, low plasticity, loose, moist to wet, sheen.	
5		0.0		NR			
6	0.3	0.0	wet	FILL		fine to medium silty SAND, little gravel, little clay, (7.5YR 4/2) brown, medium plasticity, soft, wet.	
7			NR	NO RECOVERY			
8	1.7	0.0	wet	FILL		SILT, little fine to medium sand, little clay, little gravel, (5YR 5/3) reddish brown, medium plasticity, soft, wet.	
9		0.0	moist to wet	FILL			
10	1.2	0.0	moist to wet	NR		NO RECOVERY	
11		0.0	moist to wet	FILL			
12	1.5	0.0	moist	FILL		SILT, little cinders, little ash, little roots, trace glass, (10YR 3/2) very dark grayish brown, low plasticity, loose, moist.	
13		1.8	moist	PT			
14	1	2.0	moist	PT		NO RECOVERY	
15				NR			
16						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610694.5
Date Started Drilling: 4/15/2013 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683084.75
Date Finished Drilling: 4/15/2013 2:10:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - C20A		









(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	2.7	dry	3	FILL		fine to medium silty SAND, some gravel little brick, little glass, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to moist.	
		2.7	moist	3	FILL			
2	1.6	0.0	moist	4B	FILL		fine to medium SAND, some gravel some ash & cinders, (10YR 2/1) black, non plastic, loose, moist, burnt odor.	
		0.0	dry	3	FILL			
3	1.6	3.7	moist	NR	NR		fine to medium silty SAND, some COPR little gravel, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist.	143-P3A-C20A-2.5-3.0
		1.2	moist	3	FILL			
4					NR		medium SAND, some angular gravel, (10YR 6/2) light brownish gray, non plastic, loose, dry to moist.	
5	1.4	37.8	moist	3	FILL		NO RECOVERY	
6	1.4	47.4		6	FILL		fine to medium silty SAND, some gravel little cinders, (10YR 3/2) very dark grayish brown, non plastic, very dense, moist to wet, slight HC odor, sheen.	143-P3A-C20A-4.5-5.0
7	1			NR	NR		fine silty SAND, some gravel little wood fragments, (10YR 4/2) dark grayish brown, non plastic, medium dense, moist to wet.	
8	1.3	2.7	wet	3	FILL		NO RECOVERY	
9	1.3	0.0	wet	6	FILL		fine silty SAND, some gravel little brick, (5YR 4/3) reddish brown, non plastic, medium dense, moist.	143-P3A-C20A-6.5-7.0
10	1.4	0.0	wet	6	FILL		fine to coarse silty SAND, some ash, some debris, little gravel, non plastic, medium dense, wet, strong HC odor, sheen.	143-P3A-C20A-8.5-9.0
11	1.4	0.0	wet	6	FILL		NO RECOVERY	
12	1.5	2.0	moist	3	FILL		fine to medium silty SAND, little roots, little wood fragments, little clay, (10YR 3/2) very dark grayish brown, low plasticity, soft, wet, slight HC odor.	143-P3A-C20A-10.5-11.0
13	1.5	0.0	moist	3	FILL		ASH, some cinders, (10YR 4/1) dark gray, non plastic, soft, wet.	
14	1.5	0.0	moist	9	SP-SM		NO RECOVERY	
15	1.8	0.0	moist	9	OH		ASH, some cinders, little sand, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-C20A-12.0-12.5
16	1.8	0.0	moist	9	OH		NO RECOVERY	143-P3A-C20A-12.5-13.0
17				NR	NR		fine to medium silty SAND, little gravel, (7.5YR 4/3) brown, non plastic, medium dense, moist.	
18				NR	NR		fine SAND, some silt and clay in horizontal bands, (7.5YR 4/2) brown, non plastic, medium dense, moist. Soils consistent with UNDno.	
19				NR	NR		organic SILT, some roots, (10YR 4/2) dark grayish brown, high plasticity, soft, moist. Soils consistent with UNDorg.	
20				NR	NR		NO RECOVERY	
21				NR	NR		PEAT (degraded vegetated material), with 80% organic fibers silt and 20% organic silt, (7.5YR 2.5/3) very dark brown, high plasticity, medium stiff, moist slight organic odor. Soils consistent with MM.	
22				NR	NR		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, medium stiff, moist moderate organic odor. Soils consistent with MM.	
23				NR	NR		NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610775.4375
Date Started Drilling: 8/23/2013 7:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683178.375
Date Finished Drilling: 8/23/2013 7:51:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - D16A		












(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		FILL		Concrete	
2		0.0	moist	FILL		fine CINDERS, with silt, coal dust and slag, some large brick fragments and gravel, (7.5YR 3/4) dark brown, non plastic, loose to dense, moist, no odor, no staining.	143-P3A-D16A-2.5-3.0
3							143-P3A-D16A-3.5-4.0
4					NR		NO RECOVERY
5	5	0.0	wet	FILL		SILT, with trace sand-10%, with trace fine to medium sized gravel, (7.5YR 6/4) light brown, medium plasticity, soft, wet to saturated, no odor, no staining.	143-P3A-D16A-5.5-6.0
6							143-P3A-D16A-7.0-7.5
7							143-P3A-D16A-9.0-9.5
8							
9							
10	5	0.0	wet	FILL		SILT, with trace sand-10%, with trace fine to medium sized gravel, (7.5YR 6/4) light brown, medium plasticity, soft, wet to saturated, no odor, no staining.	143-P3A-D16A-11.0-11.5
11							
12		0.0	wet	FILL		CINDERS, with coal slag, ash, dust, trace fine to medium sized gravel, ceramic and glass fragments, (7.5YR 2.5/1) black, non plastic, loose to dense, wet to saturated, no odor, no staining.	143-P3A-D16A-13.0-13.5
13							
14							
15	4	0.4	moist	OL		organic SILT, with 10% organic fibers, 90% organic silt, (7.5YR 4/1) dark gray, low plasticity, soft to medium stiff, moist to wet, slight organic odor, no staining. Soils consistent with UNDorg.	143-P3A-D16A-14.5-15.0
16		2.6	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-D16A-15.0-15.5
17		0.0	slightly moist	ML-SM		sandy SILT, with some rounded fine to medium sized gravel, (7.5YR 7/1) light gray, non plastic, loose to medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDno.	
18					NR		NO RECOVERY
19							
20							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610761.9375
Date Started Drilling: 8/23/2013 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683151.5625
Date Finished Drilling: 8/23/2013 10:07:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - D17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		FILL		GRAVEL	
2		0.0	dry to moist	FILL		COPR, with sand, silt and cinders, trace fine to medium gravel, (5YR 3/4) dark reddish brown, non plastic, loose to dense, dry to moist, no odor, no staining.	
3		0.0	dry to moist	FILL		FILL MATERIAL, as large brick and gravel cobbles, trace coal cinders and slag from 3.0' to 3.3', (7.5YR 2.5/3) very dark brown, non plastic, loose to dense, dry to moist, no odor, green staining, lime green staining around 3', staining is light and only at this interval.	143-P3A-D17A-3.0-3.5
4				NR		NO RECOVERY	
5	5	0.0		FILL		CINDERS, with coal dust, fine gravel and glass fragments, (7.5YR 2.5/1) black, non plastic, loose to medium dense.	143-P3A-D17A-5.0-5.5
6		0.0	saturated	FILL		SILT, with trace sand and fine to medium gravel, (7.5YR 6/4) light brown, non plastic, loose, saturated, no odor, no staining.	143-P3A-D17A-7.0-7.5
8		0.0	wet	FILL		SILT, with fine cinders and trace fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, wet to saturated, no odor, no staining.	143-P3A-D17A-9.0-9.5
10		0.0	wet	FILL		SILT, with trace sand and fine gravel, (7.5YR 6/4) light brown, non plastic, soft to medium stiff, wet, no odor, no staining.	143-P3A-D17A-11.0-11.5
13	5	0.0		FILL		CINDERS, with coal slag, coal dust, and some ceramic and glass fragments, (7.5YR 2.5/1) black.	143-P3A-D17A-13.0-13.5
14		0.6	moist	OL		organic SILT, with 10% organic fibers, 90% organic silt, (7.5YR 4/1) dark gray, low plasticity, stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	143-P3A-D17A-14.5-15.0
15		2.9	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-D17A-15.0-15.5
16	4	0.0	moist	ML-SM		sandy SILT, with traces of fine to medium gravel, (7.5YR 7/1) light gray, non plastic, loose to medium dense, moist to wet, no odor, no staining. Soils consistent with UNDno.	
17				NR		NO RECOVERY	
18							
19							
20							

PPG - PPG_LOGS_GDT - 9/20/13 13:10

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610748.375
Date Started Drilling: 5/31/2013 9:52:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683124.75
Date Finished Drilling: 5/31/2013 11:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - D18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	ASPHALT		ASPHALT	
		17.1		FILL		fine to medium SAND, with fine to coarse gravel, some cinders, coal, fill material, non plastic, dry, slight petroleum odor, no staining.	
2-3	2	19.1	dry	FILL		fine to medium SAND, with fine to coarse gravel, some cinders, coal, fill material, trace COPR, non plastic, dry, slight petroleum odor, no staining.	143-P3A-D18A-2.5-3.0
		14.5	dry	FILL		fine to medium SAND, with fine to coarse gravel, some cinders, coal, fill material, non plastic, dry, slight petroleum odor, no staining.	
4-5	1	0.0	slightly moist	FILL		SILT, with fine sand, little fine gravel, wood fragments, trace crushed concrete, (10YR 3/6) dark yellowish brown, non plastic, soft, slightly moist, no odor, no staining.	143-P3A-D18A-4.5-5.0
				NR		NO RECOVERY	
6-7	2	0.0	slightly moist	FILL		SILT, with fine sand, little coarse gravel, fill material, roots, (5YR 4/3) reddish brown, non plastic, soft, slightly moist, no odor, no staining.	143-P3A-D18A-6.5-7.0
8-9	1.8	0.0	slightly moist	FILL		SILT, with fine sand, little coarse gravel, fill material, roots, (5YR 4/3) reddish brown, non plastic, soft, slightly moist, no odor, no staining.	143-P3A-D18A-8.5-9.0
				FILL		fine to coarse GRAVEL, some silt, little brick, (5YR 4/3) reddish brown, non plastic, loose, slightly moist, no odor.	
10-11	1.2	0.0	slightly moist	FILL		fine to coarse GRAVEL, with ash, little cinders, coal, fill material, ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-D18A-10.5-11.0
				NR		NO RECOVERY	
12-13	0.7	0.0	moist	FILL		fine to coarse GRAVEL, with ash, little cinders, coal, fill material, ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-D18A-12.0-12.5
				NR		NO RECOVERY	
14-15	2	0.0	moist	FILL		fine to coarse ASH, with fine to coarse gravel, little cinders, coal, fill material, ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-D18A-14.5-15.0
		1.4	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	143-P3A-D18A-15.0-15.5
		2.3		PT		PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, non plastic, stiff, strong organic odor. Soils consistent with MM.	
16							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610734.875
Date Started Drilling: 8/20/2013 1:41:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683098
Date Finished Drilling: 8/20/2013 3:00:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - D19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0	dry	FILL		crushed gravelly CINDERS, with coal dust and trace ash, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.		
2		0.0		FILL		SILT, trace fine gravel, (7.5YR 6/4) light brown, low plasticity, stiff to medium stiff.		
3		0.0	dry	FILL		Trace COPR, with coal, cinders, fine gravel and trace silt, (5YR 4/4) reddish brown, non plastic, loose, dry to slightly moist, no odor.		
4		0.0		FILL		poorly graded FILL MATERIAL, as coal fragments, cinders, woody material, and fine gravel.		
5	5	0.0	moist	FILL		SILT, with some gravel and trace sand, (7.5YR 4/6) strong brown, low plasticity, medium dense, moist, no odor, no staining.	143-P3A-D19A-5.0-5.5	
6		0.0	moist to wet	FILL		FILL MATERIAL, as cinders, coal, coal dust, ash, fine gravel with trace silt, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	143-P3A-D19A-6.5-7.0	
7		0.0	wet	FILL		SILT, with some fine gravel, (7.5YR 4/3) brown, low plasticity, dense, wet, no odor, no staining, traces of cinders found at 8'.	143-P3A-D19A-8.5-9.0	
8								
9								
10	5	0.0	wet to saturated	FILL		SILT, with some fine gravel, (7.5YR 5/4) brown, low plasticity loose to medium dense, wet to saturated, no odor, no staining.	143-P3A-D19A-10.5-11.0	
11								
12		0.0		FILL		with ash and coal dust, some fine gravel and coal fragments and trace ceramics, (7.5YR 5/1) gray, weathered wood fragments concentrated at 12.0-12.3'.	143-P3A-D19A-12.5-13.0	
13								
14								
15	3.2	0.0	moist to wet	FILL		SILT, with some organic fibers, trace cinders and ash, (7.5YR 2.5/1) black, non plastic, moist to wet, slight organic odor, no staining.	143-P3A-D19A-14.5-15.0	
16		3.3	moist	PT			SILT, with organic fibers, (7.5YR 3/2) dark brown, non plastic, stiff. PEAT (degraded vegetated material), 90% organic fibers, 10% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	143-P3A-D19A-15.0-15.5
17		0.9	moist	OL			organic SILT, with trace organic fibers, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black (10YR 3/3) dark brown, medium plasticity, medium stiff, moist to wet, moderate organic odor, no staining. Soils consistent with UNDorg.	
18		0.3	moist	ML			SILT, (7.5YR 7/1) light gray, non plastic, loose, moist to wet, slight organic odor, no staining. Soils consistent with UNDno.	
19				NR				
20						NO RECOVERY		

PPG - PPG_LOGS_GDT - 9/20/13 13:10

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610721.375
Date Started Drilling: 4/15/2013 9:31:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683071.1875
Date Finished Drilling: 4/15/2013 11:05:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - D20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.3	1.2	dry	3	FILL		fine to coarse silty SAND, some gravel, (10YR 6/2) light brownish gray, non plastic, loose, dry.	
		7.0	moist	3	FILL			
2				NR	NR			
3	1.8	8.2	wet	4B	FILL		fine to medium silty SAND, some gravel, some brick, some debris (wire, glass, wood), trace COPR, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist, moderate petroleum odor, hydrocarbon staining.	
		4.0		3	FILL			
4		1.6	moist	3	FILL			
5	1.6	0.0	moist	NR	NR		fine SAND, (10YR 2/1) black, non plastic, loose, moderate petroleum odor, hydrocarbon staining.	
		7.3		3	FILL			
6				NR	NR			
7	1.7	2.5	moist	3	FILL		NO RECOVERY fine silty SAND, little gravel, trace GGM, (5YR 3/3) dark reddish brown, non plastic, medium dense, moist.	143-P3A-D20A-6.5-7.0
		0.9	moist	3	FILL			
8				NR	NR			
9	1.2	0.0		6	FILL		NO RECOVERY fine silty SAND, little gravel, little medium to coarse sand, trace clay, (5YR 3/4) dark reddish brown, low plasticity, medium dense, moist to wet.	143-P3A-D20A-8.5-9.0
				NR	NR			
10		0.0	wet	6	FILL			
11	1.2			NR	NR		NO RECOVERY ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-D20A-10.5-11.0
				NR	NR			
12	1.3	0.0	wet	6	FILL		NO RECOVERY ASH, some cinders, little coal, trace glass, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-D20A-12.3-12.8
		1.8	moist	7	PT			
13				NR	NR			143-P3A-D20A-12.8-13.3
14	2	2.1	moist	7	PT		PEAT (degraded vegetated material), with 80% organic fibers roots and 20% organic silt, (10YR 2/1) black, medium plasticity, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	
		2.0	moist	7	PT			
15								
16							NO RECOVERY PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/3) brown, medium plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (10YR 3/3) dark brown, non plastic, medium stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610802.1875
Date Started Drilling: 5/29/2013 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683164.875
Date Finished Drilling: 5/29/2013 1:50:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - E16A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.4	0.0	slightly moist	FILL		fine to coarse GRAVEL, some fine to medium sand, (7.5YR 5/4) brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
2	1.8	0.0	slightly moist	FILL		fine to medium SAND, little coal, trace cinders, trace brick, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	NR			
3	2	0.0	slightly moist	FILL		WOOD fragments, some fine sand, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
4	2	0.0	slightly moist	NR		WOOD fragments, some fine sand, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
5	2	0.0	slightly moist	FILL		fine to medium SAND, little coal, trace cinders, trace brick, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	143-P3A-E16A-5.0-5.5
6	2	0.0	slightly moist	FILL		NO RECOVERY	
7	2	0.0	slightly moist	FILL		fine silty SAND, some fine to coarse gravel, little clay, (5YR 4/3) reddish brown, low plasticity, loose to soft, slightly moist, no odor, no staining.	143-P3A-E16A-6.5-7.0
8	2	0.0	slightly moist	FILL		fine silty SAND, some fine to coarse gravel, little clay, (5YR 4/3) reddish brown, low plasticity, loose to soft, slightly moist, no odor, no staining.	
9	2	0.0	slightly moist	FILL		ASH, some fine sand, some cinders, coal, ceramics, (10YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	143-P3A-E16A-8.5-9.0
10	2	0.0	slightly moist	NR		ASH, some fine sand, some cinders, coal, ceramics, (10YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	
11	2	0.0	slightly moist	FILL		NO RECOVERY	143-P3A-E16A-10.5-11.0
12	2	0.0	moist	NR		ASH, some fine sand, some cinders, coal, ceramics, (10YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	
13	2	0.0	moist	FILL		NO RECOVERY	143-P3A-E16A-12.5-13.0
14	2	0.0	moist	NR		ASH, some fine sand, some cinders, coal, ceramics, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	
15	2	1.3	moist dry	OL		ASH, some fine sand, some cinders, coal, ceramics, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	143-P3A-E16A-14.2-14.7
15	2	2.5	dry	PT		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	143-P3A-E16A-14.7-15.2
16						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, no odor, no staining. Soils consistent with MM.	

PPG - PPG_LOGS_GDT - 9/17/13 11:29

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610788.6875
Date Started Drilling: 5/29/2013 9:23:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683138.0625
Date Finished Drilling: 5/29/2013 10:22:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - E17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		ASPHALT		ASPHALT	
		14.5	slightly moist	FILL		medium to coarse SAND, with COPR, some cinders, coal, fine to coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, slight petroleum odor, no staining.	
2	2	0.0	slightly moist	FILL		SILT, with COPR some fine sand, (5YR 5/2) reddish gray, non plastic, soft, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			fine silty SAND, some fine gravel, little fill material, (7.5YR 2.5/1) black, non plastic, loose to soft, slightly moist, no odor, no staining.
3	2						
4	1.7	0.0	slightly moist	FILL		fine silty SAND, with coarse gravel, little brick, (5YR 4/3) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	143-P3A-E17A-4.0-4.5
5							
6	2	0.0	slightly moist	NR FILL		NO RECOVERY fine silty SAND, with coarse gravel, little brick, roots, (5YR 4/3) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	143-P3A-E17A-6.0-6.5
7							
8	1.4	0.0	slightly moist	FILL		fine silty SAND, with roots, wood fragments, (7.5YR 4/2) brown, non plastic, loose to soft, slightly moist, no odor, no staining.	143-P3A-E17A-8.0-8.5
9		0.0	dry	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, dry, no odor, no staining.	
10	1.5	0.0	dry	FILL		NO RECOVERY ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, dry, no odor, no staining.	143-P3A-E17A-10.0-10.5
11							
12	1.3	0.0	dry	FILL		NO RECOVERY ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, dry, no odor, no staining.	143-P3A-E17A-12.0-12.5
13							
14	2	0.0	dry	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, dry, no odor, no staining.	143-P3A-E17A-14.2-14.7
15		2.3	slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	143-P3A-E17A-14.7-15.2
16							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610775.1875
Date Started Drilling: 5/29/2013 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683111.25
Date Finished Drilling: 5/30/2013 9:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143- E18A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	25.2	dry	FILL		fine to medium SAND, some gravel, little asphalt, trace metal, (10YR 2/1) black, non plastic, loose, dry slight HC odor.	
		0.0	slightly moist	FILL		SILT, (5YR 5/6) yellowish red, non plastic, loose, slightly moist, iron oxide staining, mottled.	
2	2	0.0	dry	FILL		fine to medium SAND, some cinders, some ash, (10YR 3/1) very dark gray, non plastic, loose, dry.	143-P3A-E18A-2.5-3.0
		0.0	moist	FILL		COPR, some silt, little fine to medium sand, (5YR 6/3) light reddish brown, non plastic, loose, moist.	
3	2	74	dry	FILL		fine CINDERS, some fine to medium sand, little gravel, trace coarse cinders, (10YR 2/1) black, non plastic, loose, dry.	143-P3A-E18A-2.5-3.0
4	1.5	0.0	moist	FILL		fine to medium SAND, some wood fragments, little gravel, (10YR 2/2) very dark brown, non plastic, dense, moist, sheen.	143-P3A-E18A-4.5-5.0
5		0.0	wet	FILL		fine to medium silty SAND, some ash, some gravel, little wood, (2.5Y 5/2) grayish brown, non plastic, medium dense, wet.	143-P3A-E18A-4.5-5.0
6	1.2	0.0	wet	FILL		NO RECOVERY	143-P3A-E18A-6.5-7.0
7		0.0	wet	FILL		fine to medium SAND, some cinders, little gravel, (2.5Y 4/2) dark grayish brown, non plastic, loose, wet	
8	1.5	0.0	moist to wet	FILL		SILT, some fine to medium sand, trace metal, (10YR 5/4) yellowish brown, medium plasticity, soft, wet.	143-P3A-E18A-8.5-9.0
9		0.0	wet	FILL		NO RECOVERY	
10	2	0.0	wet	FILL		SILT, little clay, little fine sand, little gravel, trace cinders, (5YR 5/4) reddish brown, medium plasticity, soft, moist to wet.	143-P3A-E18A-8.5-9.0
11		0.0	wet	FILL		ASH, some cinders, little coal, little gravel, little silty sand, (10YR 3/1) very dark gray, non plastic, loose, wet.	
12	2	0.0	wet	FILL		ASH, some cinders, little gravel, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-E18A-10.5-11.0
13		0.0	wet	FILL		ASH, some cinders, little gravel, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	
14	1.7	0.0	wet	FILL		ASH, some cinders, little gravel, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-E18A-14.5-15.0
15		0.0	moist	FILL		ASH, some cinders, little gravel, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	
16	1.5	1.7	moist	PT		SILT, some roots, little gravel, little cinders, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist.	143-P3A-E18A-15.0-15.5
17		1.9	moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 3/3) dark brown, medium plasticity, soft, moist. Soils consistent with MM.	
18				NR		NO RECOVERY	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, non plastic, loose, moist, moderate sulfur odor. Soils consistent with MM.	
						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610761.6875
Date Started Drilling: 5/29/2013 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683084.5
Date Finished Drilling: 5/29/2013 9:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - E19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0 447	slightly moist slightly moist	ASPHALT FILL		ASPHALT, weathered, (10YR 2/1) black, non plastic, dense, slightly moist.	
2	2	0.0	moist	FILL		fine to medium silty SAND, little gravel, little cinders, trace COPR, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist, slight burnt odor.	
3		0.0	slightly moist	FILL		SILT, (5YR 6/2) pinkish gray, low plasticity, soft, moist.	
4		0.0	moist	FILL		fine silty SAND, some COPR, (2.5Y 6/1) gray, non plastic, loose, slightly moist.	
5		0.0	slightly moist	FILL		COPR, little fine to medium sand, little cinders, (5YR 3/3) dark reddish brown, non plastic, loose, moist, moderate burnt odor.	
6		50.0	moist	FILL		fine to medium SAND, some cinders, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist.	143-P3A-E19A-5.0-5.5
7	1.7	0.0	moist	FILL		fine CINDERS, (10YR 2/1) black, non plastic, loose, slightly moist, strong burnt odor.	
8		0.0	moist	FILL		SILT, some fine sand, (10YR 6/2) light brownish gray, non plastic, medium dense, slightly moist.	143-P3A-E19A-7.0-7.5
9	2	0.0	moist to wet	FILL		fine to medium silty SAND, some wood fragments, some cinders, (10YR 2/1) black, non plastic, loose, moist, moderate burnt odor.	
10		0.0	moist to wet	FILL		SILT, some fine sand, little gravel, (7.5YR 5/3) brown, non plastic, medium dense, moist.	143-P3A-E19A-9.0-9.5
11	1.5	0.0	moist to wet	FILL		fine to medium silty SAND, some fine cinders, little wood, (10YR 3/3) dark brown, non plastic, loose, moist.	
12		0.0	moist to wet	FILL		fine silty SAND, some cinders, little clay, trace brick, trace organic fibers, (10YR 4/2) dark grayish brown, low plasticity, medium dense, moist, slight burnt odor.	143-P3A-E19A-11.0-11.5
13	1.5	0.0	moist to wet	FILL		NO RECOVERY	
14		0.0	wet	FILL		fine silty SAND, little cinders, little gravel, (10YR 4/2) dark grayish brown, low plasticity, loose, moist to wet.	143-P3A-E19A-13.0-13.5
15	2	0.0	moist	FILL		fine to medium silty SAND, little clay, trace roots, (5YR 5/3) reddish brown, medium plasticity, soft, moist to wet.	
16		1.8	moist	PT		fine to medium silty SAND, little clay, little roots, (10YR 6/3) pale brown, medium plasticity, soft, moist to wet.	143-P3A-E19A-14.7-15.2
17	1.5	2.2	moist	PT		fine silty SAND, some clay, little cinders, trace wood, trace glass, (10YR 5/2) grayish brown, high plasticity, soft, moist to wet.	143-P3A-E19A-15.2-15.7
18				NR		ASH, some cinders, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet, slight burnt odor.	
				NR		NO RECOVERY	
						ASH, some cinders, little gravel, trace glass, trace shell fragments, trace metal, (10YR 3/1) very dark gray, non plastic, loose, wet.	
						SILT, little clay, little roots, little cinders, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist.	
						PEAT (degraded vegetated material), 70% organic fibers, 20% organic clay, 10% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist moderate sulfur odor. Soils consistent with MM.	
						PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (10YR 4/3) brown, non plastic, loose, moist, strong sulfur odor. Soils consistent with MM.	
						NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610748.1875
Date Started Drilling: 3/21/2013 11:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683057.6875
Date Finished Drilling: 3/22/2013 10:50:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - E20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		1	CONCRETE		CONCRETE	
		0.0	dry	3	FILL		fine to medium SAND, little coal, little fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	
		55.6	slightly moist	6	FILL			
2	2	53.5	slightly moist	4B	FILL		fine to medium SAND, some tar-like material, little cinders, coal, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, moderate tar odor, sheen.	143-P3A-E20A-2.5-3.0
		6.5	slightly moist	6	FILL			
		4.5	slightly moist dry	6	FILL		fine to medium SAND, with COPR, little tar-like material, (5YR 3/2) dark reddish brown, non plastic loose, slightly moist, strong tar odor, no staining, sheen in split spoon.	143-P3A-E20A-4.5-5.0
1.0	dry	6	FILL					
5	1.5	0.0	moist	3	FILL		fine SAND, trace cinders, (7.5YR 2.5/1) black, non plastic, medium dense, dry, slight tar odor, no staining, sheen in spilt spoon.	143-P3A-E20A-6.5-7.0
		NR		NR	NR			
6	2	0.2	moist	3	FILL		fine SAND, little silt, trace cinders, (7.5YR 2.5/1) black, non plastic, medium dense, dry, slight tar odor, no staining, sheen in spilt spoon.	143-P3A-E20A-8.5-9.0
		0.2	moist	3	FILL			
8	2	0.0	moist	3	FILL		fine SAND, with wood fragments, and fill material, (7.5YR 3/2) dark brown, non plastic, hard, moist, no odor, no staining. NO RECOVERY	143-P3A-E20A-10.5-11.0
10	1	0.0	moist	3	FILL		fine silty SAND, with fill material, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	143-P3A-E20A-12.5-13.0
11	1	0.0	moist	3	FILL		fine sandy SILT, with fine gravel and fill material, (7.5YR 3/1) very dark gray, non plastic, soft to loose, moist, no odor, no staining, trace wood fragments.	143-P3A-E20A-13.8-14.3
		0.0	moist	NR	NR			
12	2	0.0	moist	3	FILL		SILT, trace sand, little ash, (7.5YR 3/1) very dark gray, non plastic, soft, moist to wet, no odor, no staining, some brick fragments. NO RECOVERY	143-P3A-E20A-14.3-14.8
13	2	0.0	moist	3	FILL		fine SAND, with ash, little fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	143-P3A-E20A-14.3-14.8
14	2	0.0	moist	3	FILL		fine SAND, with ash, little fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	143-P3A-E20A-14.3-14.8
		0.7	moist	9	OL			
15	2	1.6	moist	7	PT		fine SAND, with ash, little fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	143-P3A-E20A-14.3-14.8
16							UNDorg SILT, with organics, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610842.5
Date Started Drilling: 4/9/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683178.125
Date Finished Drilling: 4/11/2013 10:25:00 AM	Core Size: 3 in	Boring Total Depth: 13 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F15A		

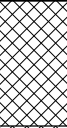






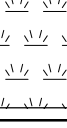



(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0-1	1	0.0	dry	3	FILL		fine to medium SAND, with medium gravel, trace wood fragments, little fill material, (7.5YR 3/2) dark brown, non plastic, loose, dry, no odor, no staining.	
1-2	1	0.0	slightly moist	3	FILL		medium SAND, with ash and fine gravel, trace fill material, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	
2-3	2	0.0	dry	6	FILL		fine silty SAND, with medium to coarse gravel, little coal, cinders, brick, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
3-4	1	0.0	dry	6	FILL		fine silty SAND, with medium to coarse gravel, little coal, cinders, brick, (7.5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	
4-5	1	0.0	moist	6	FILL		fine silty SAND, with ash, little cinders, coal, brick, (10YR 4/2) dark grayish brown, non plastic, soft to loose, moist, no odor, no staining.	143-P3A-F15A-5.0-5.5
5-6	1	0.0	moist	6	FILL		fine SAND, little fine to coarse gravel, little ash, cinders, brick, coal, (7.5YR 3/2) dark brown, non plastic, loose, moist, no odor, no staining.	
6-7	2	0.0	moist	6	FILL		NO RECOVERY	143-P3A-F15A-7.0-7.5
7-8	2	0.0	moist	6	FILL		ASH, some cinders, coal, brick, little fine to coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
8-9	2	0.0	moist	6	FILL		SILT, little fine to coarse gravel, trace coal, (10YR 4/6) dark yellowish brown, non plastic, soft, moist, no odor, no staining.	143-P3A-F15A-9.0-9.5
9-10	2	0.0	moist	3	FILL		SILT, little fine to medium gravel, little coal and cinders, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	
10-11	2	0.0	moist	3	FILL		SILT, some fine to medium sand, little roots, fine to coarse gravel, (10YR 6/2) light brownish gray, non plastic, soft, moist, no odor, no staining.	143-P3A-F15A-11.0-11.5
11-12	2	1.9		7	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff. Soils consistent with MM.	143-P3A-F15A-11.5-12.0
12-13								

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610829
Date Started Drilling: 5/24/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683151.375
Date Finished Drilling: 5/24/2013 10:05:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F16A		















(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	FILL		fine silty SAND, some ash, little cinders, little coal, little glass, (10YR 2/1) black, non plastic, loose, slightly moist.	
2	2	0.0	moist to wet	FILL		fine CINDERS, little fine silty sand, trace brick, (10YR 2/1) black, non plastic, medium dense, moist to wet.	
3							
4	1.8	0.0	moist	FILL		SILT, some fine sand, some ash, (7.5YR 2.5/3) very dark brown, low plasticity, medium dense, moist.	
5		0.0	wet	FILL		fine silty SAND, little cinders, trace wood, (5YR 5/2) reddish gray, medium plasticity, loose, wet.	143-P3A-F16A-5.0-5.5
6	1.2	0.0	moist	NR		NO RECOVERY	
7		0.0	moist	FILL		SILT, some fine sand, little gravel, (7.5YR 5/2) brown, medium plasticity, loose, moist.	143-P3A-F16A-6.7-7.2
8	1.6			NR		SILT, little clay, trace fine sand, (7.5YR 3/2) dark brown, high plasticity, soft, moist.	
9		0.0	wet	FILL		NO RECOVERY	
10	1.5	0.0	wet	FILL		ASH, some wood fragments, some cinders, trace ceramics, (10YR 2/1) black, non plastic, loose, wet.	143-P3A-F16A-8.7-9.2
11		0.0	wet	FILL		ASH, some cinders, little gravel, trace wood, (10YR 4/1) dark gray, non plastic, loose, wet.	
12	2	0.0	wet	NR		NO RECOVERY	143-P3A-F16A-10.7-11.2
13		0.0	wet	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-F16A-12.7-13.2
14	1.8	0.0	moist	FILL		SILT, little ash, little cinders, little roots, (5YR 3/1) very dark gray, medium plasticity, soft, moist.	143-P3A-F16A-13.5-14.0
15		2.4	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	143-P3A-F16A-14.0-14.5
16				NR		NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610815.5
Date Started Drilling: 5/24/2013 10:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683124.5625
Date Finished Drilling: 5/24/2013 10:50:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F17A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	2	0.0	slightly moist	FILL		fine to medium silty SAND, some brick, some gravel, (7.5YR 5/3) brown, non plastic, loose, slightly moist.		
		0.0	dry	FILL				fine to medium CINDERS, some COPR, little brick, trace concrete, (7.5YR 2.5/1) black, non plastic, loose, dry.
2-3	2	0.0	slightly moist	FILL		fine silty SAND, some gravel, little COPR, (7.5YR 4/2) brown, non plastic, dense, slightly moist.		
		0.0		FILL				
4-5	1.5	0.0	wet	FILL		SILT, some ash, little wood fragments, little cinders, (10YR 3/1) very dark gray, non plastic, loose, wet.		
		0.0	moist to wet	FILL				
6				NR		NO RECOVERY		
7	1.3	0.0	moist	FILL		SILT, some fine to medium sand, little clay, little rock fragments, (10YR 5/4) yellowish brown, low plasticity, medium dense, moist.	143-P3A-F17A-6.8-7.3	
				NR				NO RECOVERY
8-9	1.3	0.0	moist	FILL		fine to medium silty SAND, some gravel, little coal, (10YR 4/3) brown, non plastic, medium dense, moist.	143-P3A-F17A-8.8-9.3	
		0.0		FILL				ASH, some cinders,
10				NR		NO RECOVERY		
11	1.3	0.0	wet	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-F17A-10.8-11.3	
				NR				NO RECOVERY
12-13	0.5	0.0	wet	FILL		ASH, some cinders, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-F17A-12.0-12.5	
				NR				NO RECOVERY
14-15	2	0.0	wet	FILL		ASH, some cinders, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	143-P3A-F17A-14.0-14.5	
		0.0	moist	OH			organic SILT, little clay, some roots, (10YR 3/2) very dark grayish brown, high plasticity, soft, moist. Soils consistent with UNDorg.	143-P3A-F17A-14.5-15.0
		2.1	moist	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic, loose, moist, slight sulfur odor. Soils consistent with MM.	
16								

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610802
Date Started Drilling: 5/24/2013 8:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683097.8125
Date Finished Drilling: 5/24/2013 10:02:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F18A		

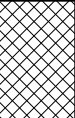


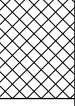







(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	10.8	dry	FILL		fine to medium SAND, some COPR, coal, cinders, little fill material, brick, fine to coarse gravel, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, slight petroleum odor, no staining.	
2	2	0.0	slightly moist	FILL		fine to medium SAND, some wood fragments, little COPR, brick, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
3							
4							
5	2	0.0	slightly moist	FILL		fine to medium SAND, some cinders, coal, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
6		0.0	dry	FILL		fine to medium SAND, with fine to coarse gravel, little cinders, (5YR 5/3) reddish brown, non plastic, medium dense to hard, dry, no odor, no staining.	143-P3A-F18A-5.0-5.5
7	1.1	0.0	moist	FILL		SILT, some fine sand, little fine to coarse gravel, (10YR 5/2) grayish brown, low plasticity soft, moist, no odor, no staining.	143-P3A-F18A-6.5-7.0
8				NR		NO RECOVERY	
9	1.6	0.0	moist	FILL		ASH, with fine sand, cinders, coal some wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	143-P3A-F18A-8.5-9.0
10				NR		NO RECOVERY	
11	1	0.0	moist	FILL		ASH, with fine sand, cinders, coal some wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	143-P3A-F18A-10.5-11.0
12				NR		NO RECOVERY	
13	1.4	0.0	moist	FILL		ASH, with fine sand, cinders, coal, some wood fragments, little ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	143-P3A-F18A-12.5-13.0
14				NR		NO RECOVERY	
15	2	0.0	moist	FILL		ASH, with fine sand, cinders, coal, some wood fragments, little ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	143-P3A-F18A-14.1-14.9
16		1.4	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	143-P3A-F18A-14.9-15.1
		2.3	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610788.5
Date Started Drilling: 5/24/2013 7:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683071
Date Finished Drilling: 5/24/2013 8:20:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F19A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, some cinders, coal, ash, trace COPR, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	
2	1.8	46.9	slightly moist	FILL		SILT, some COPR, little oil-like material, (7.5YR 3/3) dark brown, low plasticity, soft, slightly moist, strong petroleum odor sheen.	
3		18.9	dry	FILL		fine SAND, little coal, trace oil-like material, (7.5YR 2.5/1) black, loose, dry, slight petroleum odor, no staining.	
4	1.6	18.9	dry	NR		NO RECOVERY	
5				FILL		fine SAND, little coal, cinders, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
6	0.7	18.9	dry	NR		NO RECOVERY	
7				FILL		fine SAND, little coal, cinders, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
8	1.3	0.0	slightly moist	FILL		fine silty SAND, some fine to medium gravel, little coal, cinders, ash, (7.5YR 4/2) brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
9				FILL		ASH, with fine sand, some cinders, coal, little ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
10	1	0.0	moist	FILL		NO RECOVERY	
11				NR		ASH, with fine sand, some cinders, coal, little ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
12	1.2	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, little ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
13				NR		NO RECOVERY	
14	1	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, little ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
15				NR		NO RECOVERY	
16	2	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, little ceramics, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	143-P3A-F19A-16.0-16.5
17		2.4	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.
18							

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610775
Date Started Drilling: 3/21/2013 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683044.1875
Date Finished Drilling: 3/21/2013 11:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 143 - F20A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	2	0.0	moist	3	FILL		fine to medium SAND, with silt, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.		
		0.0	moist	4B	FILL				fine to medium SAND, with silt, trace COPR, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.
		0.0	moist	4A	FILL				
2-3	1.8	0.0	moist	4A	FILL		COPR, with fine sand, little silt, (5YR 3/4) dark reddish brown, non plastic, soft, moist, no odor.	143-P3A-F20A-2.8-3.3	
		0.0	moist	4A	FILL				COPR, with fine sand, little silt, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.
		0.0	moist	3	FILL				
4-5	1.8	0.0	moist	NR	NR		COPR, with ash and sand, (5YR 5/1) gray, non plastic, soft, moist to wet, no odor, no staining.	143-P3A-F20A-4.5-5.0 143-P3A-F20A-4.5-5.0X	
		0.0	moist	3	FILL				fine to medium SAND, with silt, trace ash, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.
		0.0	moist	3	FILL				
6-7	1	0.0	moist	NR	NR		NO RECOVERY	143-P3A-F20A-6.5-7.0	
		0.0	moist	3	FILL				fine silty SAND, some fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.
		0.0	moist	3	FILL				
8-9	1	0.0	moist	NR	NR		fine to medium SAND, with brick and silt, (7.5YR 3/4) dark brown, non plastic, loose to stiff, moist, no odor, no staining.	143-P3A-F20A-8.5-9.0	
		0.0	moist	3	FILL				fine to medium SAND, some ash, little silt, (7.5YR 2.5/1) black, non plastic, soft to dense, moist, no odor, no staining.
		0.0	moist	NR	NR				
10-11	1	0.0	moist	3	FILL		NO RECOVERY	143-P3A-F20A-10.5-11.0	
		0.0	moist	3	FILL				fine to medium SAND, little fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.
		0.0	moist	NR	NR				
12-13	2	0.0	moist	3	FILL		NO RECOVERY	143-P3A-F20A-12.5-13.0	
		0.0	moist	3	FILL				fine to medium SAND, little silt, (7.5YR 4/6) strong brown, non plastic, soft, moist to wet, no odor, no staining.
		0.0	moist	3	FILL				
14-15	2	0.0	moist	3	FILL		ASH, some ceramics and fine sand, (7.5YR 5/1) gray, non plastic, loose, moist to wet, no odor, no staining.	143-P3A-F20A-14.5-15.0	
		0.8	moist	9	OL				ASH, with fine to medium gravel and sand, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.
		1.3	moist	7	PT				
16							UNDorg SILT, little organics, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick.



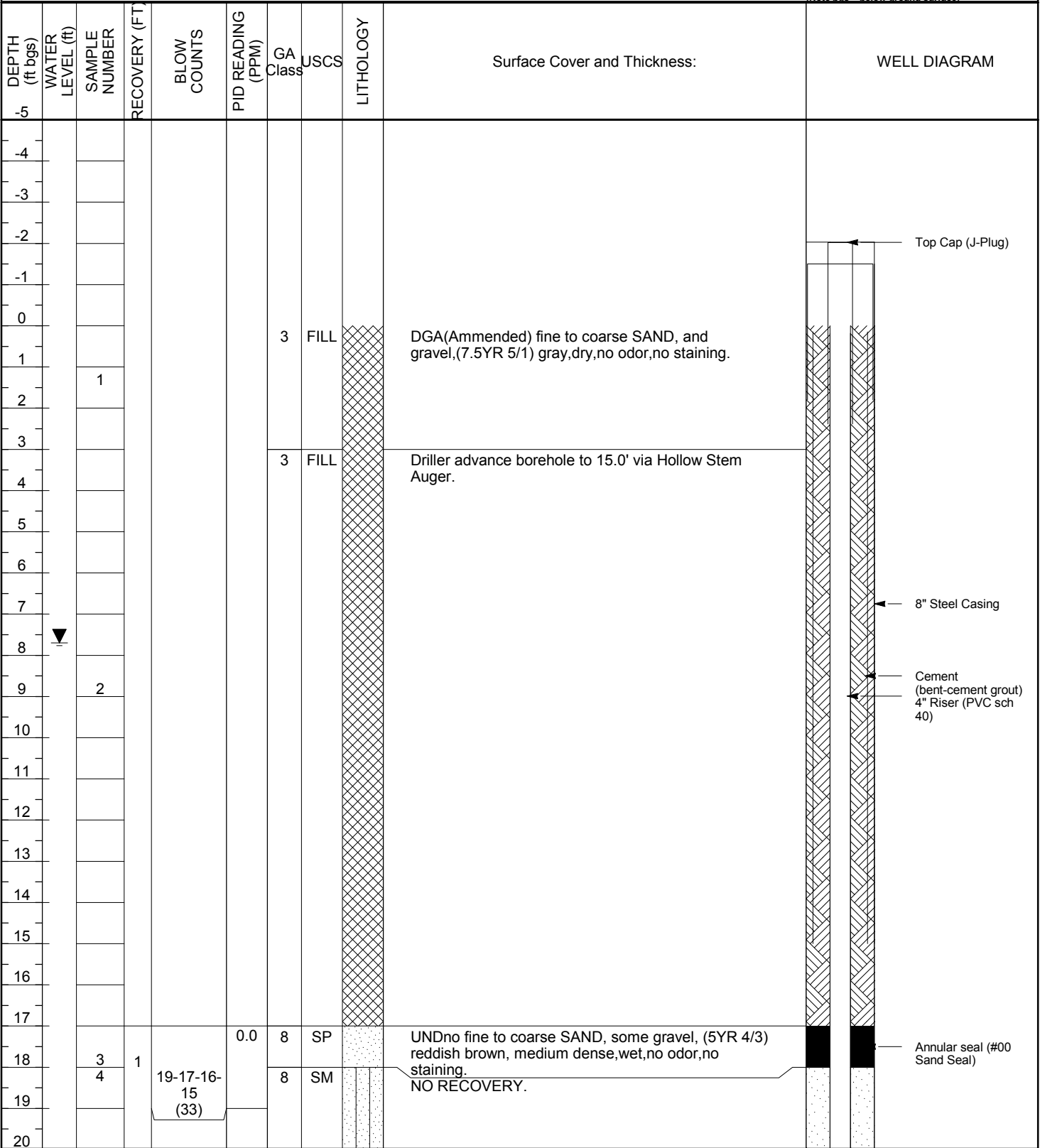
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 143-P3A-MW1011

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508497
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 610728.7
Drilling Date: 8/31/2015 10:40:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 683206.9
Well Completion Date: 9/1/2015 2:00:00 PM	Elevation: 10.9	Total Well Depth: 34 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 7.7 ft
Physical Location: PBR Well P3A		Date Gauged: 9/4/2015

(Note: bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS - A.GDT - 12/3/15 17:23 - C:\USERS\IRVING\MDC\DOCUMENTS\MY EQUIS WORK\PPG - JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ



Comments: Steel Casing set @ 15.0'



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

WELL ID 143-P3A-MW101I

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	NJDEP Well Permit Number: E201508497
Project Number: 60240739	Driller: T.Lynch Jr	Coordinates (NJSPNAD83) x: 610728.7
Drilling Date: 8/31/2015 10:40:00 AM	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) y: 683206.9
Well Completion Date: 9/1/2015 2:00:00 PM	Elevation: 10.9	Total Well Depth: 34 ft
Geologist: ES	Project Manager: Scott Mikaelian	Depth to Water: 7.7 ft
Physical Location: PBR Well P3A		Date Gauged: 9/4/2015

(Note bgs = below ground surface)

PPG MONITORING WELL - 2012-09 RA PPG LOGS - A.GDT - 12/3/15 17:23 - C:\USERS\IRVING\MDC\DOCUMENTS\MY EQUIS WORK\PPG_JERSEY\GARFIELD AVENUE GROUP OF SITES\PBR\135-143.GPJ

DEPTH (ft bgs)	WATER LEVEL (ft)	SAMPLE NUMBER	RECOVERY (FT)	BLOW COUNTS	PID READING (PPM)	GA Class	USCS	LITHOLOGY	Surface Cover and Thickness:	WELL DIAGRAM
20										
21										
22										
23										
24										
25										
26		5	1.5	27-23-21-	0.0	10	SM	UNDno fine to medium silty SAND, (5YR 4/3) reddish brown, medium dense,wet,no odor,no staining,(interbedded silt @ 25.0-26.0').		Filter Pack (#1 Filter Pack) 4" 10 Slot Screen (PVC sch 40)
26		6	28	0.0	8	SP				
27		7	(44)		8	SP				
28										
29										
30										
31		8	1	20-28-33-	0.0	8	SM	UNDno fine to medium SAND,some silt,little gravel,(5YR 4/3) reddish brown,medium dense,wet,no odor,no staining.		End Cap (PVC sch 40)
31		9	(61)		8	SP				
32										
33		10	1.5	48-42-67-			SP	UNDno fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, dense to very dense,wet to moist,no odor,no staining, (friable shale fragments @ 33.0-33.5')		
33		11	(109)			NR				
34										

Comments: Steel Casing set @ 15.0'



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: Site 143	Drilling Company: SGS	
Project Number: 60237614.846GARF.A	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 683114
Date Started Drilling: 12/5/2011	Rig Type: 7728DT	Coordinates (NJSPNAD83) y: 610670
Date Finished Drilling: 12/6/2011	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: Chamberland, Merdinger	Project Manager: Robert Cataldo	Depth to Water: 3.0 ft ft
Physical Location: Site 143 - Junkyard		

(Note bgs = below ground surface)

PPG - GINT STD US LAB.GDT - 3/15/12 15:07 - C:\DOCUMENTS AND SETTINGS\STANCHAKIMMY DOCUMENTS\IMY EQUIS WORK\PPG - JERSEY\GARFIELD AVENUE GROUP OF SITES\ALARICO BORINGS.GPJ

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number	
1	0.5	0.1	Moist	3	FILL		Black (7.5YR 2.5/1) medium SAND, little medium to coarse Gravel and Fill (glass, debris), loose. Slight asphalt odor.	DD1-TW2-0.3	
2		0							
3		0.1	Moist	3	FILL		Black (7.5YR 2.5/1) fine SILTY SAND, little angular coarse Gravel, trace Metal debris, loose. No odor.		
4				Wet	3	FILL		Black (7.5YR 2.5/1) fine SANDY SILT, little fine Gravel and Glass debris, trace Brick and Concrete debris, loose. No odor.	DD1-TW2-3.5
5		0							DD1-TW2-5.0
6			Wet	6	FILL		Brown (7.5YR 4/2) fine to medium SAND and SILT, some Ash and Cinders, loose. No odor. No Recovery		
7		Wet	6	FILL					
8									
9									
10									
11							End of boring at 10 ft.		
12									
13									
14									
15									
16									
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31									
32									
33									
34									
35									

Comments: Poor recovery in 5-10 interval. No sample. Temporary well installed to 10 ft bgs. Groundwater sample DD1-TW2 taken 12/6/11 after development, then well abandoned.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610825.078
Date Started Drilling: 4/21/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683132.991
Date Finished Drilling: 4/21/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 1.5/20 ft
Physical Location: On Site 143		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		41	dry	4B	Fill		Very Dark Gray (7.5YR 3/1) fine to medium Gravelly SAND, little Silt and COPR (15%), loose, dry. Slight petroleum odor.	EF-B32_0.5
2		0.8	wet	3	Fill		Black (10YR 2/1) fine to medium Gravelly SAND, little Silt and Cobbles, medium dense, wet. Slight petroleum odor.	EF-B32_2.0
3		0.6	wet	4B	Fill		Same as above, trace COPR, wet. No odor.	EF-B32_2.0X
4		0.4	wet	6	Fill		Brown (7.5YR 5/3) fine SAND and SILT, some Coal Ash and Cinders, loose, wet. No odor.	EF-B32_2.5
5		0						EF-B32_4.0
6								EF-B32_6.0
7	1.1		wet		Fill		No Recovery	
8								
9								
10	1.3	0						
11			wet	6	Fill		Gray (10YR 6/1) ASH, some Cinders, little Coal and Slag, loose, wet. No odor.	EF-B32_10.5
12			wet		Fill		No Recovery	
13	1.3							
14								
15		0						EF-B32_15.0
16			moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	
17	0.4		moist		PT		No Recovery	
18								
19								
20	2	0						
21		0	wet	10	SP-SM		Weak Red (10YR 4/3) coarse SAND, some Silt and fine to medium Sand, trace Clay and interbedded Gray fine Sand, medium dense, wet. No odor.	EF-B32_21.0
22			wet	10	SP-SM		Dark Red (2.5YR 3/6) fine to medium SAND, some Silt, little medium angular Gravel, medium dense, wet. No odor.	
23	2		wet		SP-SM		No Recovery	
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
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31								
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33								
34								
35								

Comments: 15% COPR at 0.0-1.5 ft, trace of COPR identified from 2.5-3.0 ft bgs.

PPG - GINT STD US LAB.GDT - 11/3/11 14:35 - \\USPSW2\FP001\DATA_USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA-RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610684.45
Date Started Drilling: 4/21/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683168.566
Date Finished Drilling: 4/21/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/20 ft
Physical Location: On Site 143		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number	
1		0	dry	2	Fill		Black Asphalt Black (7.5YR 2.5/1) fine to medium SAND and SILT, some Gravel, little COPR (10-15%) and Fill Material (coal, debris), medium dense, dry. No odor.	EF-B33_0.5	
2		0	dry	4B				EF-B33_2.0	
3		0						EF-B33_2.5	
4		0							
5		0	moist	3					EF-B33_4.0
6	1.6	0	wet	3	Fill		Reddish Brown (2.5YR 4/4) fine SAND and GRAVEL, little Silt, loose, wet. No odor.	EF-B33_6.0	
7			moist	3	Fill			Black SILT, trace fine Sand and Gravel, soft, moist. No odor.	
8			moist		Fill			No Recovery	
9									
10		0.1						EF-B33_10.0	
11	3	0	moist	3	Fill		Dark Reddish Gray (5YR 4/2) SILT and very fine SAND, little Cinders and Coal, soft, moist. No odor.		
12			0						
13			moist	7	PT				Black PEAT (PT), Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.
14		moist		PT	No Recovery				
15		0							
16	3.1	0	moist	7	PT		Same as above.		
17			moist	8	SP				Brown (10YR 5/3) to Gray (Gley1 6/0) very fine SAND, trace Silt, dense, moist. No odor.
18			0	dry	10				
19			dry		SP-SM	No Recovery			
20		0							
21	3.7	0	wet	10	SP-SM		Weak Red (10R 4/3) fine to medium SAND, interbedded with Gray (Gley1 6/0) SILT, loose, wet. No odor.		
22			0	moist	10			SP-SM	Weak Red (10R 4/3) medium SAND and SILT, some fine subangular Gravel, dense, moist. No odor.
23			0						
24			moist		SP-SM		No Recovery		
25							End of boring at 25 ft.		
26									
27									
28									
29									
30									
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34									
35									

Comments: 10% COPR identified 0.0-1.5 ft bgs, 15% COPR identified at 1.5-3.5 ft bgs.

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30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610641.93
Date Started Drilling: 4/22/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683188.936
Date Finished Drilling: 4/25/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/20.5 ft
Physical Location: Garfield Avenue, in front of Talarico Auto.		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number				
1	2.8	0	dry	1	Fill		Concrete	EF-B34_0.5				
2		0	moist	3			Strong Brown (7.5YR 4/6) Clayey SILT, some Gravel and Fill Material (slag, coal), loose to stiff, moist. No odor.					
3		0	wet	3	Fill		Brown (7.5 YR 4/4) SILT and medium SAND, little coarse sand and fill material (slag), little mottling, soft. No odor.	EF-B34 2.0				
4		0						EF-B34_2.5				
5		0						EF-B34 4.0				
6		0						EF-B34 6.0				
7		0	wet	3	Fill		Dark Grayish Brown (10YR 4/2) SILT, little very fine Sand, soft, wet. No odor.	EF-B34 7.5				
8		0						No Recovery				
9		4.3	0	wet	3	Fill		Same as above, soft to medium stiff.	EF-B34 10.0			
10			0						EF-B34_10.0X			
11	0		EF-B34_12.5									
12	0		moist						3	Fill		Same as above, some crushed Sandstone, moist
13	0											
14	0	wet	3	Fill		Olive Gray (5Y 5/2) SILT, soft, wet. No odor.	EF-B34 16.5					
15	4.2	0	moist	10	SP-SM		Reddish Brown (2.5YR 4/4) SILT and medium SAND (SP-SM), some subangular Gravel, slight mottling, very dense, moist. No odor.					
16		0						SP-SM	No Recovery			
17		0						SP-SM	Same as above.			
18	4.2	0	moist	10	SW		Reddish Brown (2.5YR 4/4) fine to coarse SAND (SW), well graded, trace Silt, loose, wet. No odor.	EF-B34_22.5				
19		0						moist	11	GM		Reddish Brown (2.5YR 4/4) SILT and fine angular Gravel (GM), very dense, moist. No odor.
20		0										
21		0	moist				End of boring at 25 ft.					
22												
23												
24												
25												
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35												

Comments: No COPR/GGM identified at this location.

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Boring ID: EF-35

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610667.276
Date Started Drilling: 4/21/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683255.627
Date Finished Drilling: 4/22/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: SE corner of Garfield Avenue and Carteret Avenue		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	1	Fill		Concrete	EF-B35_0.5
2		0	moist	3			Brown (7.5YR 4/3) Clayey SILT, some fine to coarse Sand, trace Fill Material (gravel, glass), soft, moist. No odor.	EF-B35_2.0
3		0						EF-B35_2.5
4		0						EF-B35_4.0
5								
6	0				Fill		No Recovery	
7								
8								
9								
10		0						EF-B35_10.0
11	5	0	wet	9	ML		Dark Yellowish Brown (10YR 4/4) SILT, graded to very fine Sand at 12-13', trace Gravel, soft, wet. No odor.	
12		0						EF-B35_12.0
13		0						EF-B35_13.0
14		0	moist	10	SP-SM		Reddish Brown (5YR 4/4) fine SAND, little medium angular Gravel and Silt, trace medium Sand, dense, moist. No odor.	
15		0					Reddish Brown (5YR 4/3) very fine to fine SAND, little Silt, loose, wet. No odor.	EF-B35_16.0
16	1.5	0	moist	10	SP-SM		Reddish Brown (5YR 4/4) SILT and fine SAND, little subangular Gravel, dense, moist. No odor.	
17		0	moist		SP-SM		No Recovery	
18								
19								
20		0						EF-B35_20.0
21	0.5		moist	10	SP-SM		Same as above, liner split in core barrel - lost most of sample.	
22			moist		SP-SM		No Recovery	
23								
24								
25								
26						End of boring at 25 ft.		
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 11/3/11 14:35 - \\USPSW2\FP001\DATA_USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJCPROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610619.877
Date Started Drilling: 4/22/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683269.884
Date Finished Drilling: 4/25/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: SW corner of Garfield Avenue & Carteret Avenue		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number	
1		0	dry	1	Fill		Concrete Brown (7.5YR 5/4) CLAY and SILT, trace fine Gravel, trace Organics, medium stiff, moist. Slight organic odor.	EF-B36_0.5	
2		0	moist	3	Fill			EF-B36_2.0	
3		0						EF-B36_2.5	
4		0						EF-B36_4.0	
5		0							
6	3.1	0	wet	3	Fill		Reddish Brown (5YR 5/4) fine SAND and SILT, trace Mudstone, slightly mottled, loose to medium dense, wet. No odor.	EF-B36_6.0	
7		0	wet	10	SP-SM			Reddish Brown (2.5YR 4/4) fine SAND, little Silt and fine subangular Gravel, medium dense, wet. No odor.	EF-B36_7.5
8		0	wet	10	SP-SM			No Recovery	
9	2.8						Same as above, soft to medium dense.		
10		0	wet	10	SP-SM				
11		0	wet	10	SP-SM				
12		0	wet	10	SP-SM				
13							No Recovery		
14									
15									
16									
17	1.4	0	moist	10	GM		Reddish Brown (2.5YR 4/4) SILT and fine to medium sub-round to sub-angular Gravel (Red Mudstone fragments), little medium Sand, dense, moist. No odor.	EF-B36_15.5	
18			moist	11	GM			No Recovery	
19									
20		0					Reddish Brown (2.5YR 4/4) fine to medium angular to sub-round GRAVEL, some coarse Sand, little Silt and fine Sand, dense, moist. No odor.	EF-B36_20.0	
21	0.7		moist	11	GM			No Recovery	
22			moist	11	GM			No Recovery	
23							End of boring at 25 ft.		
24									
25									
26									
27									
28									
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31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

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