
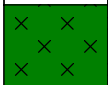



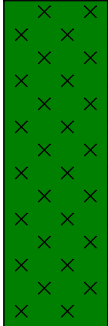
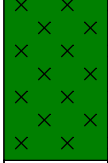
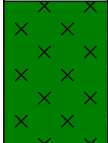

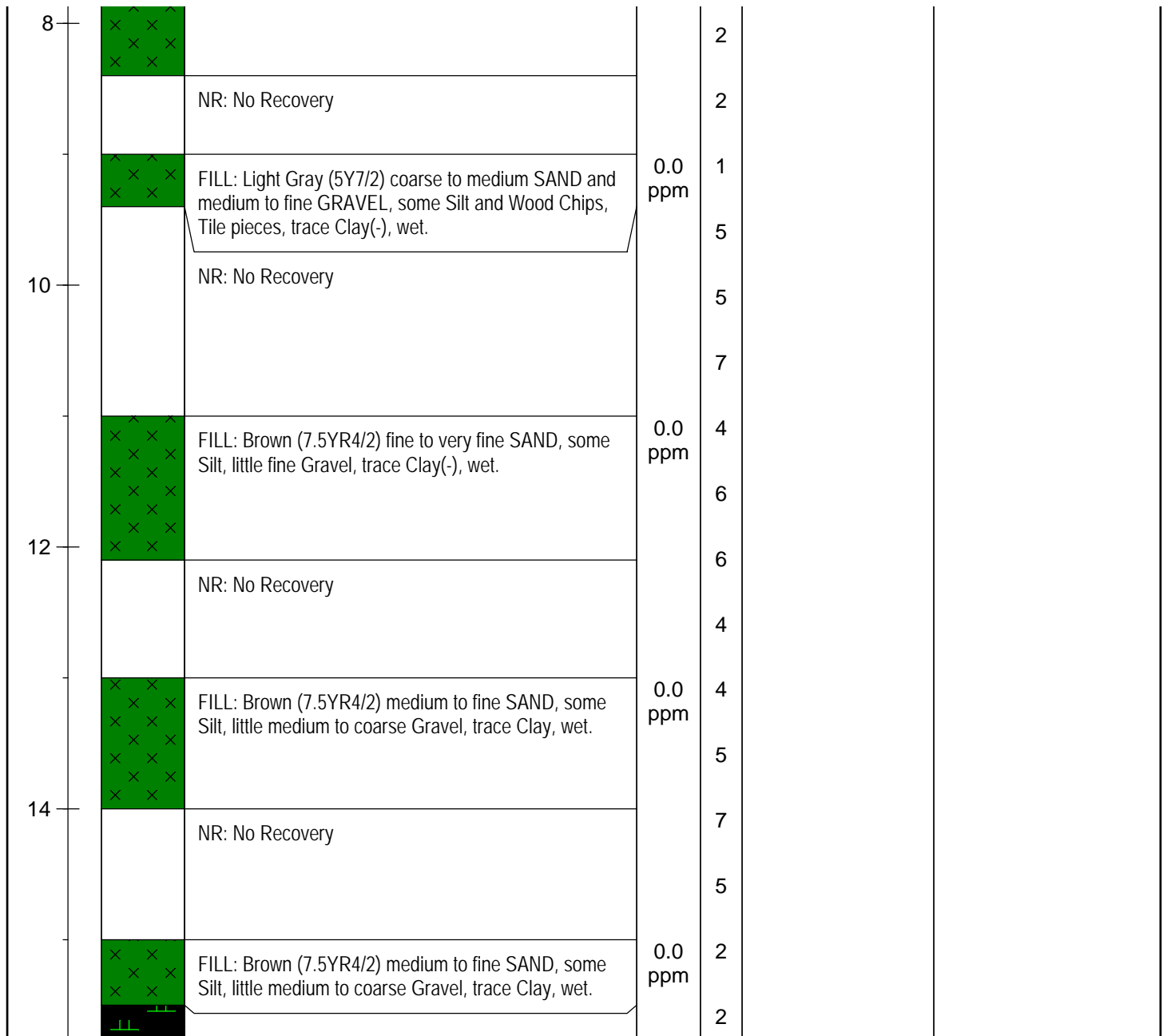
		Client: PPG Industries	BORING ID: 114-MW19C			
		Site: Site 114				
Start Date: 10/11/2006	Project: Site Investigation		Page: 1 of 13			
		Coordinates: X-611263.5 Y-682737.4	Depth of Boring: 101.20			
End Date: 11/3/2006	Elevation: 11.78		Geologist: M. Merdinger			
		Drill Subcontractor: ADI	Driller:			
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

0		ASPHALT: Asphalt	N/A			
		NR: No Sample				
		FILL: Grayish Brown (10YR 5/2) Fill Material (Ash, Brick, Slag, Concrete, coarse Sand and Silt, Ceramics, Mudstones)				
		NR: No Sample				
2						
		FILL: Light Brownish Gray (10YR 6/2) CLAY, some Silt and Gravel, Fill Material (Ash, Brick, Rock Fragments, Slag)				
4						
		FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, wet.	0.0 ppm	3		
				2		
6		NR: No Recovery		2		
				3		
		FILL: Light Gray (5Y7/2) coarse to medium SAND and medium to fine GRAVEL, some Silt and Wood Chips, Tile pieces, trace Clay(-), wet.	0.0 ppm	2		
				2		

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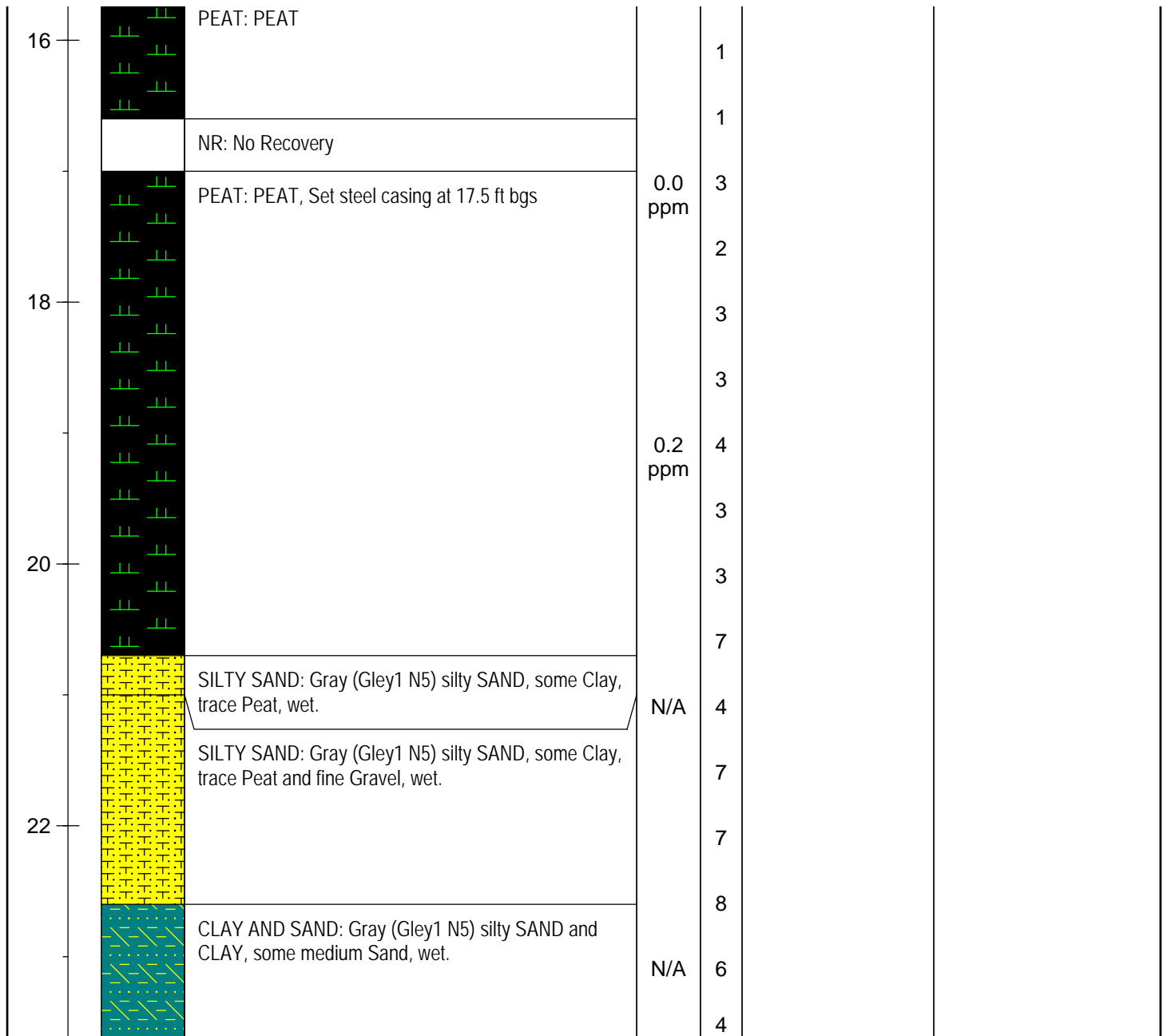
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 2 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters



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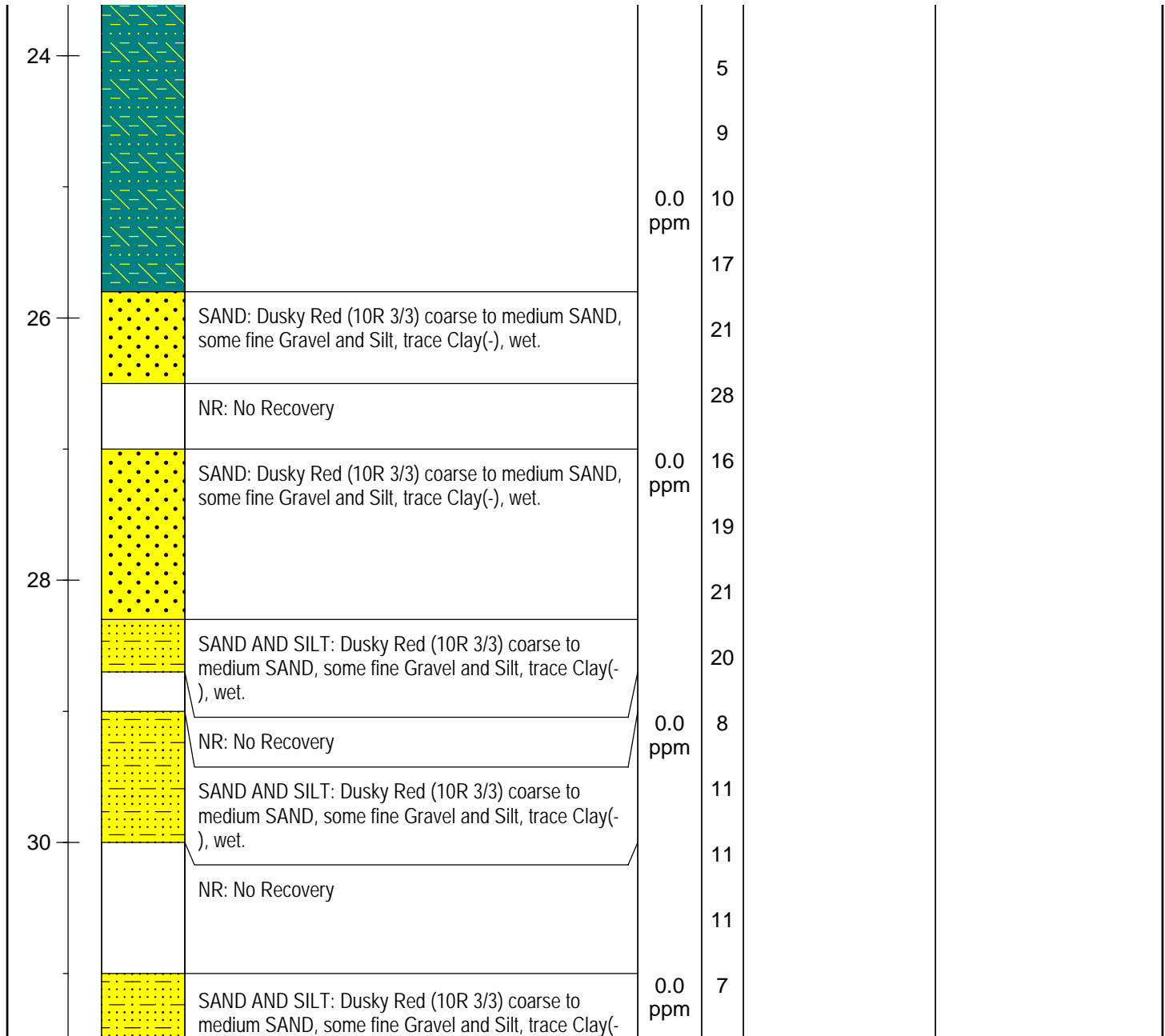
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		Site: Site 114				
Start Date: 10/11/2006	Project: Site Investigation		Page: 3 of 13			
	Coordinates: X-611263.5 Y-682737.4		Depth of Boring: 101.20			
End Date: 11/3/2006	Elevation: 11.78		Geologist: M. Merdinger			
	Drill Subcontractor: ADI		Driller:			
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters



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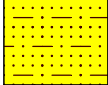
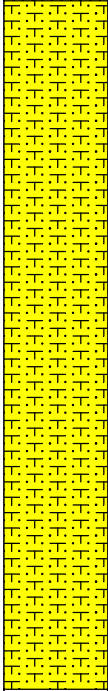
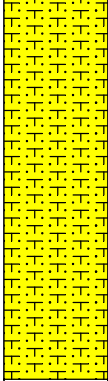
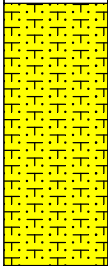


		Client: PPG Industries			BORING ID: 114-MW19C	
		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 4 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters



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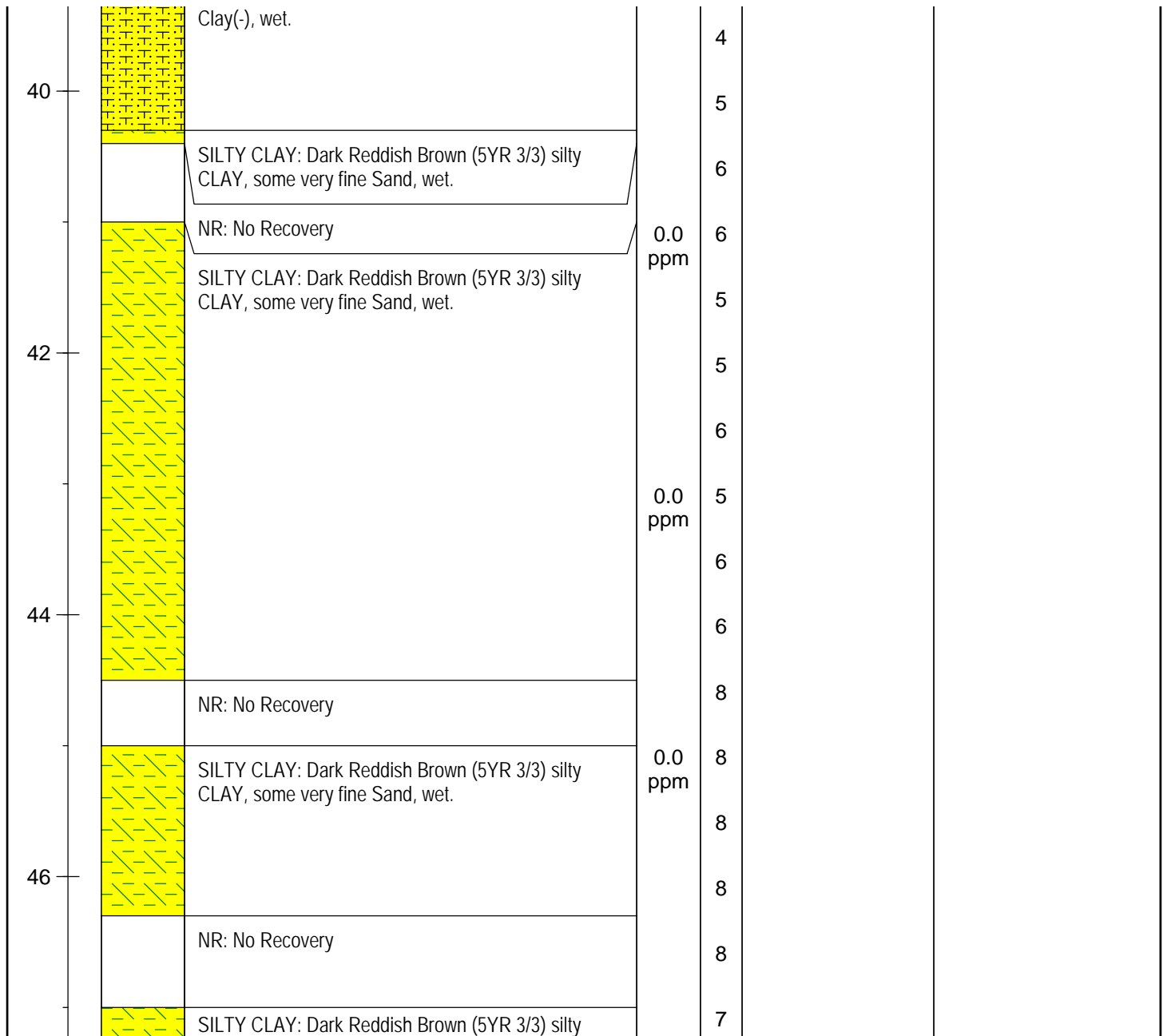
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 5 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

32	), wet.		8		
		SILTY SAND: Dusk Red (10R 3/3) silty SAND, trace Clay(-), wet.		11		
				11		
			0.0 ppm	4		
				6		
34				8		
				11		
			0.0 ppm	10		
				10		
36		NR: No Recovery		10		
				10		
		SILTY SAND: Dusk Red (10R 3/3) silty SAND, trace Clay(-), wet.	0.0 ppm	7		
				5		
38				8		
				9		
		NR: No Recovery		9		
		SILTY SAND: Dusk Red (10R 3/3) silty SAND, trace	0.0 ppm	4		

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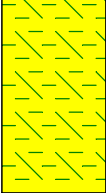

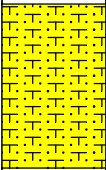
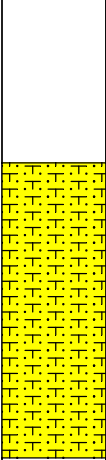
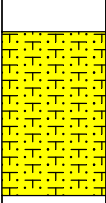
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 6 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters



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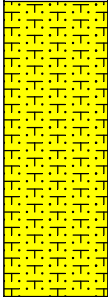
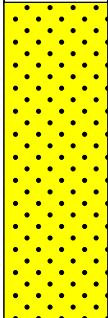
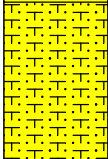
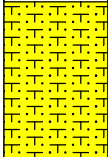
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 7 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

48		CLAY, some very fine Sand, wet.		11			
				11			
50		NR: No Recovery	0.0 ppm	16			
				NA			
				NA			
				27			114-MW19CA (50.0-51.0)
52		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, little Clay, wet. No odor.	0.0 ppm	10			
				15			
				15			
				12			
54		NR: No Recovery	0.0 ppm	15			
				16			
				10			
				10			
54		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor.	0.0 ppm	15		114-MW19CB (54.0-55.0)	
				12			MS/MSD, Cr+6, TAL Metals
				N/A			12

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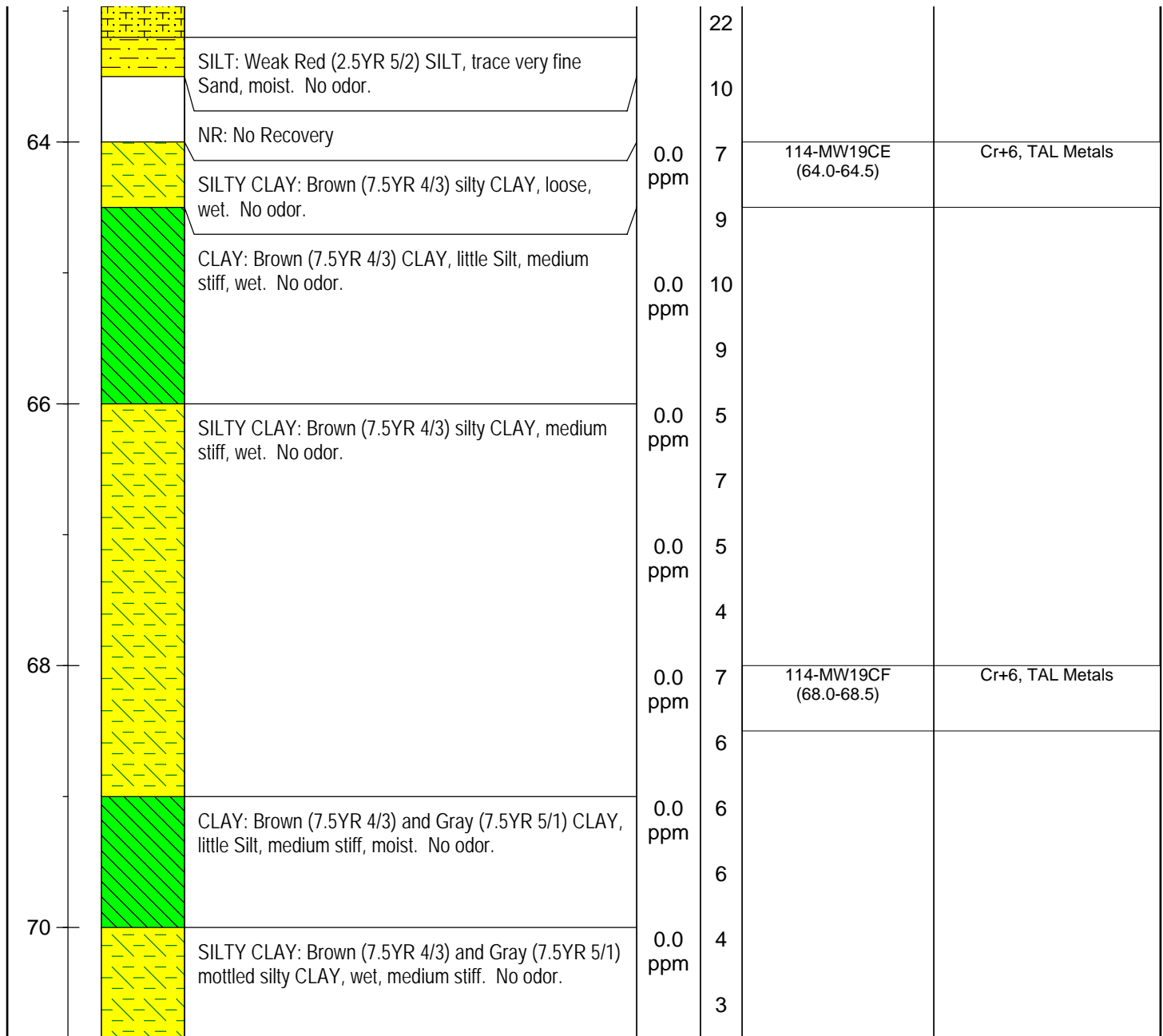
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Start Date: 10/11/2006		Project: Site Investigation			Page: 8 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6'	Sample ID	Sample Parameters

		NR: No Recovery		12		
56		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor.	N/A	13		
				14		
				15		
				17		
58		NR: No Recovery	N/A	7	114-MW19CC (58.0-58.5)	Cr+6, TAL Metals
		SAND: Weak Red (2.5YR 5/2) very fine SAND, some Silt, moist. No odor.		9		
				13		
				15		
60		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor.	N/A	10		
				15		
		NR: No Recovery		16		
				12		
62		SILTY SAND: Weak Red (2.5YR 5/2) very fine silty SAND, moist. No odor.	N/A	10	114-MW19CD (62.0-62.5)	Cr+6, TAL Metals
				13		

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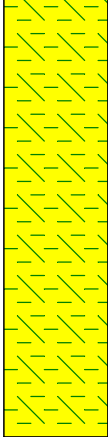
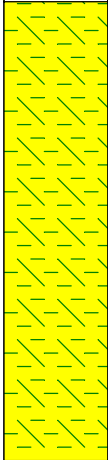
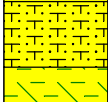
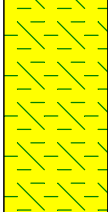
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		Site: Site 114				
Start Date: 10/11/2006	Project: Site Investigation		Page: 9 of 13			
	Coordinates: X-611263.5 Y-682737.4		Depth of Boring: 101.20			
End Date: 11/3/2006	Elevation: 11.78		Geologist: M. Merdinger			
	Drill Subcontractor: ADI		Driller:			
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters



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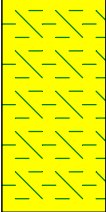
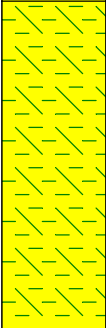
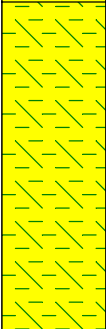
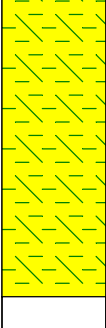
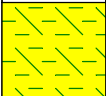
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 10 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

72			0.0 ppm	4	114-MW19CG (72.0-72.5)	Cr+6, TAL Metals
			0.0 ppm	4		
74		NR: No Recovery	0.0 ppm	3		
			0.0 ppm	4		
			0.0 ppm	6		
			0.0 ppm	5		
76		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, moist to wet, medium stiff. No odor.	0.0 ppm	3		
			0.0 ppm	4		
			0.0 ppm	3		
			0.0 ppm	4		
78		SILTY SAND: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) very fine silty SAND, trace Clay, moist. No odor.	0.0 ppm	3	114-MW19CH (77.0-77.5)	Cr+6, TAL Metals
			0.0 ppm	4		
		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, little interbedded very fine silty Sand, moist. No odor.	0.0 ppm	5		
			0.0 ppm	7		

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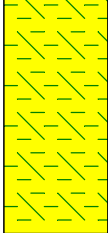
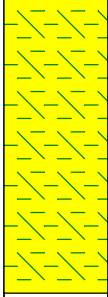
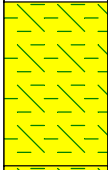

		Client: PPG Industries			BORING ID: 114-MW19C	
		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 11 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

80		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, little interbedded very fine silty Sand, wet. No odor.	0.0 ppm	10	114-MW19CI (80.0-80.5)	Cr+6, TAL Metals
				7		
82		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, medium stiff, wet. No odor.	0.0 ppm	5		
				6		
			0.0 ppm	5		
				6		
84		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, medium stiff, wet. No odor.	0.0 ppm	4	114-MW19CJ (84.0-84.5)	Cr+6, TAL Metals
				5		
			0.0 ppm	6		
				6		
86		NR: No Recovery	0.0 ppm	3		
				4		
			0.0 ppm	3		
				4		
		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, medium stiff, wet. No odor.	N/A	7		

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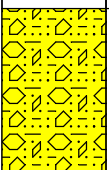
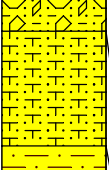
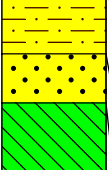
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		Site: Site 114				
Start Date: 10/11/2006		Project: Site Investigation			Page: 12 of 13	
		Coordinates: X-611263.5 Y-682737.4			Depth of Boring: 101.20	
End Date: 11/3/2006		Elevation: 11.78			Geologist: M. Merdinger	
		Drill Subcontractor: ADI			Driller:	
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

88		NR: No Recovery	N/A	7		
				7		
				9	114-MW19CK (87.5-88.0)	Cr+6, TAL Metals
				4		
				5		
				5		
90		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, interbedded with very fine silty Sand (Reddish Brown (2.5YR 4/3)), medium stiff, wet. No odor.	0.0 ppm	6		
			0.0 ppm	7		
			0.0 ppm	7		
			0.0 ppm	7		
92		NR: No Recovery	0.0 ppm	9		
			0.0 ppm	7		
		SILTY CLAY: Brown (7.5YR 4/3) and Gray (7.5YR 5/1) mottled silty CLAY, interbedded with very fine silty Sand (Reddish Brown (2.5YR 4/3)), medium stiff, wet. No odor.	0.0 ppm	13	114-MW19CL (93.0-93.5)	Cr+6, TAL Metals
		SILTY CLAY: Reddish Brown (2.5YR 4/3) silty CLAY, some very fine Sand, little small to medium Gravel, wet. No odor.	0.0 ppm	14		
94		GRAVEL AND SAND: Reddish Brown (2.5YR 4/3) very fine silty SAND and small to medium GRAVEL,	0.0 ppm	19		

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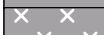


		Client: PPG Industries	BORING ID: 114-MW19C			
		Site: Site 114				
Start Date: 10/11/2006	Project: Site Investigation		Page: 13 of 13			
	Coordinates: X-611263.5 Y-682737.4		Depth of Boring: 101.20			
End Date: 11/3/2006	Elevation: 11.78		Geologist: M. Merdinger			
	Drill Subcontractor: ADI		Driller:			
Depth (ft)	Lithology	Description	PID	Blows/6"	Sample ID	Sample Parameters

96		trace Clay, wet. No odor.		22		
		NR: No Recovery		27		
98		GRAVEL AND SAND: Reddish Brown (2.5YR 4/3) very fine silty SAND and graded GRAVEL from large to small, trace Clay, wet. No odor.	0.0 ppm	21	114-MW19CM (96.0-96.5)	Cr+6, TAL Metals
		NR: No Recovery	0.0 ppm	23		
100		GRAVEL AND SAND: Reddish Brown (2.5YR 4/3) very fine silty SAND and large to small GRAVEL, trace Clay, wet. No odor.	0.0 ppm	26		
		SILTY SAND: Reddish Brown (2.5YR 4/3) very fine silty SAND, wet. No odor.		28		
		SILT: Reddish Brown (2.5YR 4/3) SILT, trace Clay, medium dense, moist. No odor.		28		
		NR: No Recovery	0.0 ppm	34		
		SILT: Reddish Brown (2.5YR 4/3) SILT, little Clay, medium dense, wet. No odor.		30		
		SAND: Reddish Brown (2.5YR 4/3) very fine SAND, trace Silt, wet. No odor.	0.0 ppm	32		
		CLAY: Reddish Brown (2.5YR 4/3) CLAY and Weathered Bedrock, moist, medium stiff. No odor.		37	114-MW19CN (100.0-101.0)	Cr+6, TAL Metals
		NULL: Refusal due to Bedrock at 101.2 ft.	0.0 ppm	50		
				100 /2"		

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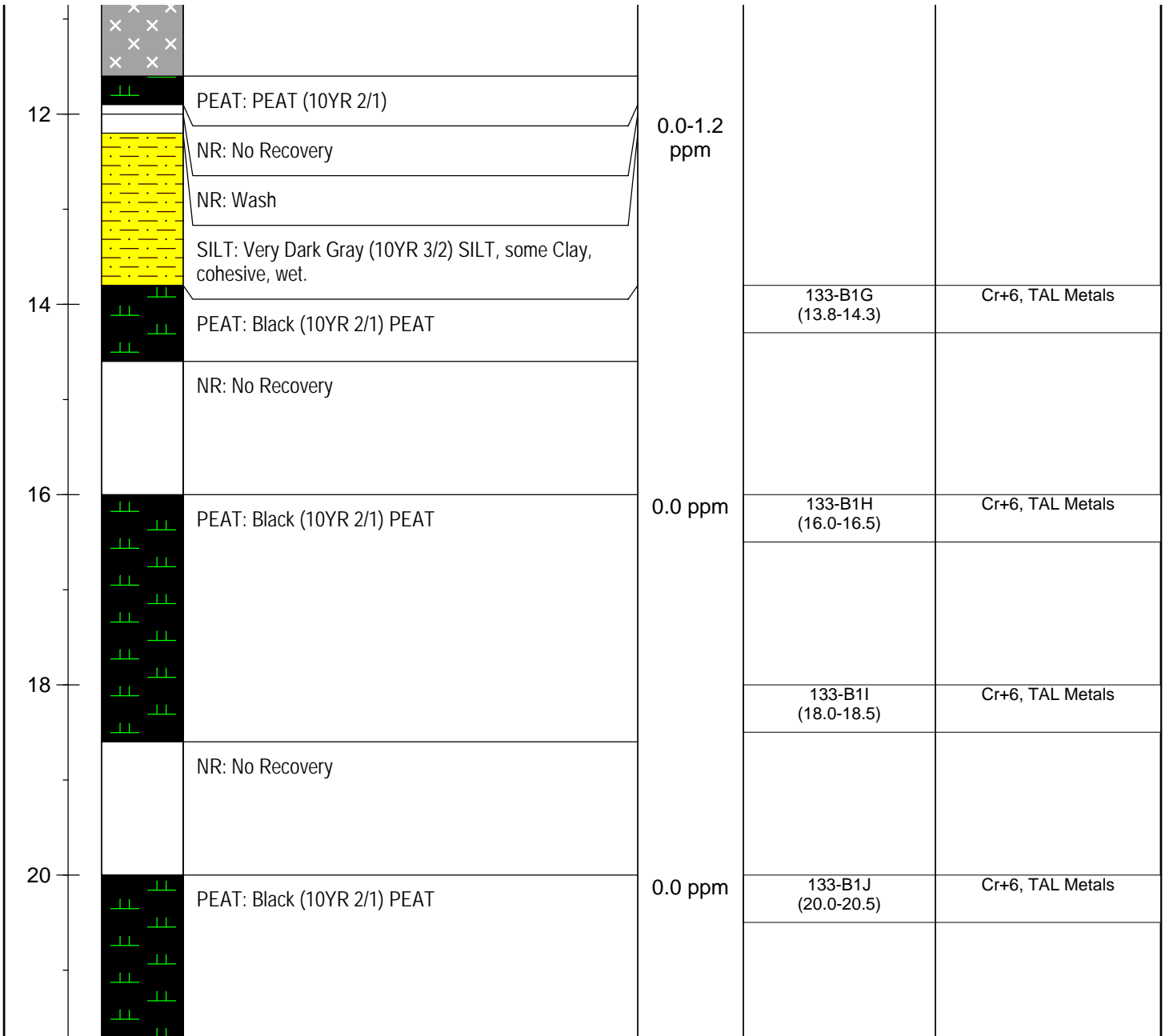
	Client: PPG Industries	BORING ID: 133-B1			
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-611151.6 Y-682630.2	Depth of Boring: 32.00			
End Date: 12/8/2006	Elevation: 13.15	Geologist: P. Kelly, R. Firely			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller:			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Street level ASPHALT	0.0 ppm		
		FILL: Coarse GRAVEL Rock (Macadam sub-surface), dry.	0.0 ppm		
		FILL: Dark Brown SAND, some fine to coarse Gravel, dry.	0.0 ppm		
2		FILL: Gray-green SILT (ASH), some fine Gravel, little fine gravel-sized Slag, dry.			
		FILL: Green-gray fine to coarse SAND, some fine Gravel and Ash, wet. (WASTE MUD)	0.0 ppm		
4		FILL: Gray-green fine GRAVEL and fine SAND, some Silt, very loose, wet.	0.0 ppm		
		FILL: Grayish green SILT, little Clay, trace coarse Gravel, cohesive, wet. (WASTE MUD)	0.2 ppm	133-B1E (5.4-6.4)	MS/MSD, Cr+6, TAL Metals
6					
		FILL: No Recovery			
8		FILL: Grayish green SILT, little Clay, trace coarse Gravel, cohesive, wet. (WASTE MUD)	0.0 ppm		
				133-B1F (9.4-9.9)	Cr+6, TAL Metals
10					

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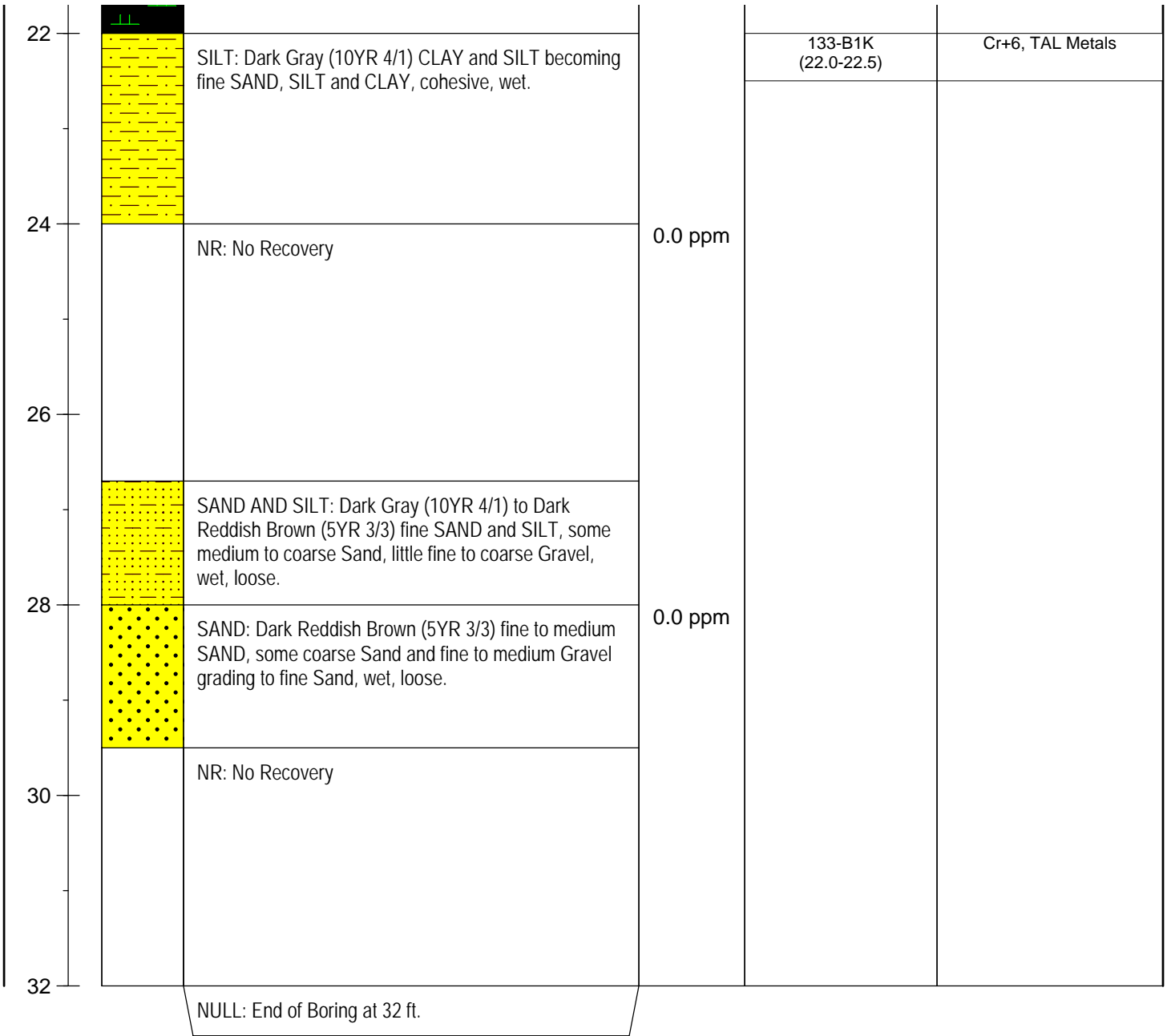
	Client: PPG Industries	BORING ID: 133-B1			
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-611151.6 Y-682630.2	Depth of Boring: 32.00			
End Date: 12/8/2006	Elevation: 13.15	Geologist: P. Kelly, R. Firely			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller:			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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ENSR AECOM		Client: PPG Industries	BORING ID: 133-B1		
		Site: Site 133			
Start Date: 12/6/2006	Project: Site Investigation		Page: 3 of 3		
		Coordinates: X-611151.6 Y-682630.2	Depth of Boring: 32.00		
End Date: 12/8/2006	Elevation: 13.15		Geologist: P. Kelly, R. Firely		
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller:		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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	Client: PPG Industries	BORING ID: 133-B2			
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-611036.5 Y-682515.9	Depth of Boring: 32.00			
End Date: 12/11/2006	Elevation: 13.49	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Street level ASPHALT			
		FILL: Coarse GRAVEL Rock (Macadam sub-surface), dry.	0.0 ppm	133-B2A (0.6-1.1)	Cr+6, TAL Metals
		FILL: Dark Brown coarse SAND, some Silt and fine to coarse Gravel, little fine Cobbles, dry.			
2		FILL: Blocky coarse to medium cobble-sized SLAG			
		FILL: Dark Brown medium SAND and SILT, some COPR, little fine Gravel, dry.	0.0 ppm	133-B2B (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Dark Brown medium GRAVEL, some woody Black Organics, little White-gray fragmented Chert, very loose, wet.		133-B2C (4.5-5.0)	Cr+6, TAL Metals
		FILL: Very Dark Gray (5YR 3/1) SILT, little fine Sand, little angular small Gravel, wet. No odor.			
6		NR: No Recovery			
		FILL: Very Dark Gray (5YR 3/1) GRAVEL, some Silt, little fine Sand and woody Organics, Ceramics, wet. Sewage odor.	0.9 ppm	133-B2D (8.0-8.5)	Cr+6, TAL Metals
8		NR: No Recovery			
10					

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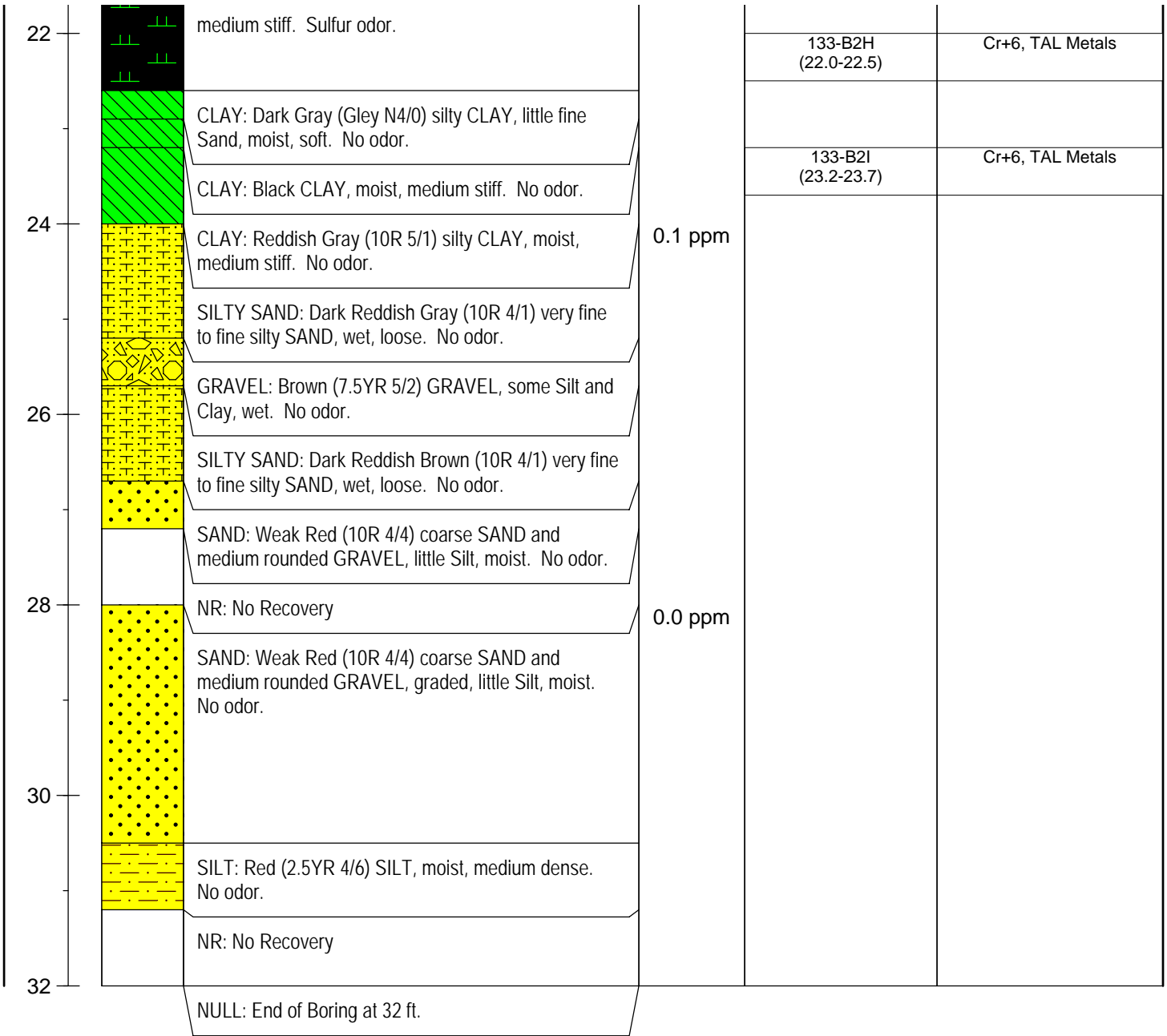
ENSR AECOM	Client: PPG Industries		BORING ID: 133-B2		
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-611036.5 Y-682515.9		Depth of Boring: 32.00		
End Date: 12/11/2006	Elevation: 13.49		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Black (5YR 2.5/1) SILT, some Organics and Wood, trace Gravel and fine Sand, wet. No odor.	0.0 ppm	133-B2E (12.0-13.0)	Cr+6, TAL Metals
				133-B2ED (12.0-13.0)	Cr+6, TAL Metals
14		FILL: Dark Gray (5YR 5/1) fine SAND, some Fill Material (wood peices, ceramics, shell material), wet. No odor.	0.0 ppm		
		FILL: Brown (7.5YR 4/2) silty CLAY, trace Organics, wet. Mothball odor.			
16		FILL: No Recovery	0.0 ppm		
		FILL: Reddish Brown (5YR 4/3) silty CLAY, some medium to fine Sand, wet. No odor.			
18		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	495.0 ppm		
		NR: No Recovery			
20		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	2.3 ppm	133-B2G (20.0-20.5)	Cr+6, TAL Metals
		PEAT: Dark Gray (Gley N4/0) organic CLAY, moist,			

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	Client: PPG Industries	BORING ID: 133-B2			
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-611036.5 Y-682515.9	Depth of Boring: 32.00			
End Date: 12/11/2006	Elevation: 13.49	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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ENSR AECOM	Client: PPG Industries		BORING ID: 133-B4		
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-610904.0 Y-682399.9		Depth of Boring: 32.00		
End Date: 12/12/2006	Elevation: 12.72		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Street level ASPHALT			
	X X X X	FILL: Coarse GRAVEL Rock (Macadam sub-surface), dry.	0.0 ppm	133-B4A (0.7-1.2)	Cr+6, TAL Metals
	X X X X	FILL: Dark Brown SILT, some Clay and fine Gravel, moist.	0.0 ppm	133-B4B (1.5-2.0)	Cr+6, TAL Metals
2	X X X X	FILL: Black medium GRAVEL with cohesive tar-like matter, some fine Sand and Silt, moist. No odor.	0.0 ppm		
	X X X X	FILL: Blocky cobble-sized SLAG, some fine Sand.			
	X X X X	FILL: Grayish Brown (10YR 5/2) SILT with Bright Green lenses, moist. Naphthalene odor. (WASTE MUD)	0.0 ppm	133-B4C (3.3-3.8)	Cr+6, TAL Metals
4	X X X X		5.2 ppm		
	X X X X		2.0 ppm	114-WC6 (4.6-5.6)	TCLP Metals, TCLP Cr+6
6	X X X X	FILL: Very Dark Brown (10YR 2/2) SILT and coarse SAND, wet. Naphthalene odor.	5.2 ppm	133-B4D (6.0-6.5)	Cr+6, TAL Metals
		NR: No Recovery			
8	X X X X	FILL: Black SILT and medium angular GRAVEL, little medium Sand, wet. Naphthalene odor.	0.0 ppm		
	X X X X	FILL: Reddish Brown (2.5YR 4/3) silty CLAY with Green lenses, trace medium angular Gravel, wet. No odor.	0.3 ppm	133-B4E (9.0-9.5)	Cr+6, TAL Metals
10		FILL: Black medium angular GRAVEL, some Silt, Fill Material (ceramics, wood peices), wet. Slight odor.			
		NR: No Recovery			

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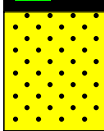
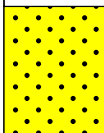
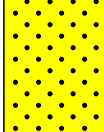

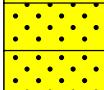
ENSR AECOM		Client: PPG Industries	BORING ID: 133-B4		
		Site: Site 133			
Start Date: 12/6/2006	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-610904.0 Y-682399.9		Depth of Boring: 32.00		
End Date: 12/12/2006	Elevation: 12.72		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Dark Brown (7.5YR 3/2) SILT, some very fine Sand, trace small rounded Gravel, moist. No odor.	0.1 ppm		
		FILL: Dark Reddish Gray (5YR 4/2) very fine SAND, little Silt, trace large Gravel, moist. No odor.	0.0 ppm	133-B4F(12.5-13.0) 133-B4FD(12.5-13.0)	Cr+6, TAL Metals Cr+6, TAL Metals
14		FILL: Reddish Brown (2.5YR 4/4) CLAY and SILT, little coarse Sand, Green staining, moist. No odor.	0.0 ppm		
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.		133-B4G (14.3-14.8)	Cr+6, TAL Metals
		NR: No Recovery			
16		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	0.1 ppm		
			0.0 ppm		
18			0.3 ppm		
		NR: No Recovery		133-B4H (18.3-18.8)	Cr+6, TAL Metals
20		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	16.0 ppm		
			11.4 ppm		

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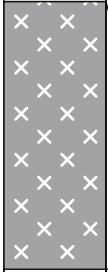
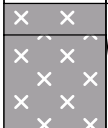
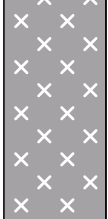

	Client: PPG Industries	BORING ID: 133-B4			
	Site: Site 133				
Start Date: 12/6/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610904.0 Y-682399.9	Depth of Boring: 32.00			
End Date: 12/12/2006	Elevation: 12.72	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

22		SAND: Gray (Gley N5/0) very fine SAND, some Silt, wet. No odor.	4.8 ppm	133-B4I (21.8-22.3)	Cr+6, TAL Metals
		NR: No Recovery			
24		SAND: Gray (Gley N5/0) very fine SAND, some Silt, wet. No odor.	0.0 ppm		
			0.2 ppm		
26			0.1 ppm		
			0.1 ppm		
28		CLAY: Gray (Gley N5/0) CLAY, medium stiff, moist. No odor.			
		SILT AND GRAVEL: Red (10R 5/6) SILT and medium rounded GRAVEL, some fine to medium Sand, wet. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/3) fine to medium SAND, little Silt, loose, wet. No odor.	0.0 ppm		
30		SAND: Weak Red (10R 4/3) fine to medium SAND, little medium rounded Gravel, little Silt, trace Clay, loose, wet. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/3) medium SAND, little rounded small Gravel, medium stiff, wet. No odor.	0.0 ppm		
32		NULL: End of Boring at 32 ft.			

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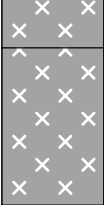
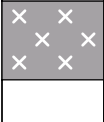


	Client: PPG Industries	BORING ID: 133-B9			
	Site: Site 133				
Start Date: 1/5/2007	Project: Site Investigation	Page: 1 of 2			
	Coordinates: X-610880.6 Y-682252.5	Depth of Boring: 16.00			
End Date: 1/5/2007	Elevation: 12.1	Geologist: M. Merdinger			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete floor with yellow staining. Water used in concrete coring was stained yellow/green.	0.0 ppm	133-B9A (0.5-1.0)	Cr+6, TAL Metals
2		FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor.	0.0 ppm		
		NR: No Sample	0.0 ppm		
4		FILL: Dark Reddish Brown (2.5YR 2.5/3) SILT, little fine to medium Sand, 100% COPR, loose, dry. No odor.	N/A	133-B9B (4.5-5.0)	Cr+6, TAL Metals
6		FILL: Brown (7.5YR 5/2) to stained-Black SILT and fine angular Gravel, Fill Material (Glass, Ceramic), loose, wet. Paint thinner odor.			
		NR: No Recovery			
8		FILL: Dusky Red (2.5YR 3/2) fine rounded GRAVEL,	420.0	133-B9C	Cr+6, TAL Metals

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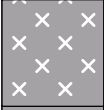
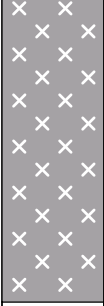
	Client: PPG Industries		BORING ID: 133-B9		
	Site: Site 133				
Start Date: 1/5/2007	Project: Site Investigation		Page: 2 of 2		
	Coordinates: X-610880.6 Y-682252.5		Depth of Boring: 16.00		
End Date: 1/5/2007	Elevation: 13.33		Geologist: M. Merdinger		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		little Silt, 100% COPR, loose, wet. Paint thinner odor.	ppm	(8.0-8.5)	
		FILL: Black SILT and medium angular GRAVEL, loose, wet. Naphthalene odor.	100.0 ppm		
10		FILL: Dark Reddish Brown (5YR 3/2) SILT, trace fine Gravel and medium to coarse Sand, medium dense, wet. No odor.	77.0 ppm		
		NR: No Recovery			
12		FILL: Black stained SILT, little very fine Sand, loose, wet. No odor.	11.7 ppm	133-B9D (12.0-12.5)	Cr+6, TAL Metals
			4.0 ppm		
14		FILL: Construction and Demolition FILL Material (ash, slag, concrete, nails), loose, wet. No odor.	4.5 ppm	133-B9E (14.0-14.5)	Cr+6, TAL Metals
		NR: No Recovery			
16		NULL: End of Boring at 16 ft.			

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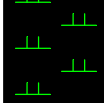
	Client: PPG Industries		BORING ID: 133-B11		
	Site: Site 133				
Start Date: 4/17/2007	Project: Site Investigation		Page: 1 of 2		
	Coordinates: X-611036.0 Y-682457.2		Depth of Boring: 16.50		
End Date: 4/17/2007	Elevation: 14.36		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, no staining.			
		FILL: Very Dark Brown (7.5YR 2.5/2) coarse to fine SAND, some medium to fine Gravel, little coal, ash, glass, brick, loose, moist. No odor.	0.7	133-B11A (0.5-2.0)	Cr+6, TAL Metals
2			1.9		
		NR: No Recovery	3.0		
4					
		FILL: Very Dark Brown (7.5YR 2.5/2) coarse to fine SAND, some medium to fine Gravel, little coal, ash, glass, brick, loose, moist. No odor.	0.5		
		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND and medium to fine GRAVEL, trace Silt, ash, coal and shells, loose, wet. Slight odor.	1.5	133-B11B (5.2-7.2)	Cr+6, TAL Metals
6			4.1		
		NR: No Recovery			
8					

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	Client: PPG Industries		BORING ID: 133-B11		
	Site: Site 133				
Start Date: 4/17/2007	Project: Site Investigation		Page: 2 of 2		
	Coordinates: X-611036.0 Y-682457.2		Depth of Boring: 16.50		
End Date: 4/17/2007	Elevation: 14.36		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND and medium to fine GRAVEL, trace Silt, interbedded with Dark Brown (10YR 3/3) medium Sand and medium to fine Gravel, plastic peices, loose, wet. Slight odor.	1.7	133-B11C (8.7-10.5)	Cr+6, TAL Metals
			6.0		
12		NR: No Recovery	10.1		
			5.5		
14		FILL: Black (10YR 2/1) coarse to fine SAND, some medium to fine Gravel, little organics, shells, ceramics, loose, moist. Odor.	6.3	133-B11D (13.5-14.2)	Cr+6, TAL Metals
16		PEAT: Black (10YR 2/1) organic CLAY, some Peat, cohesive, soft, moist. Sulfur odor.			
		NR: No Recovery			
NULL: End of boring at 16.5 ft.					

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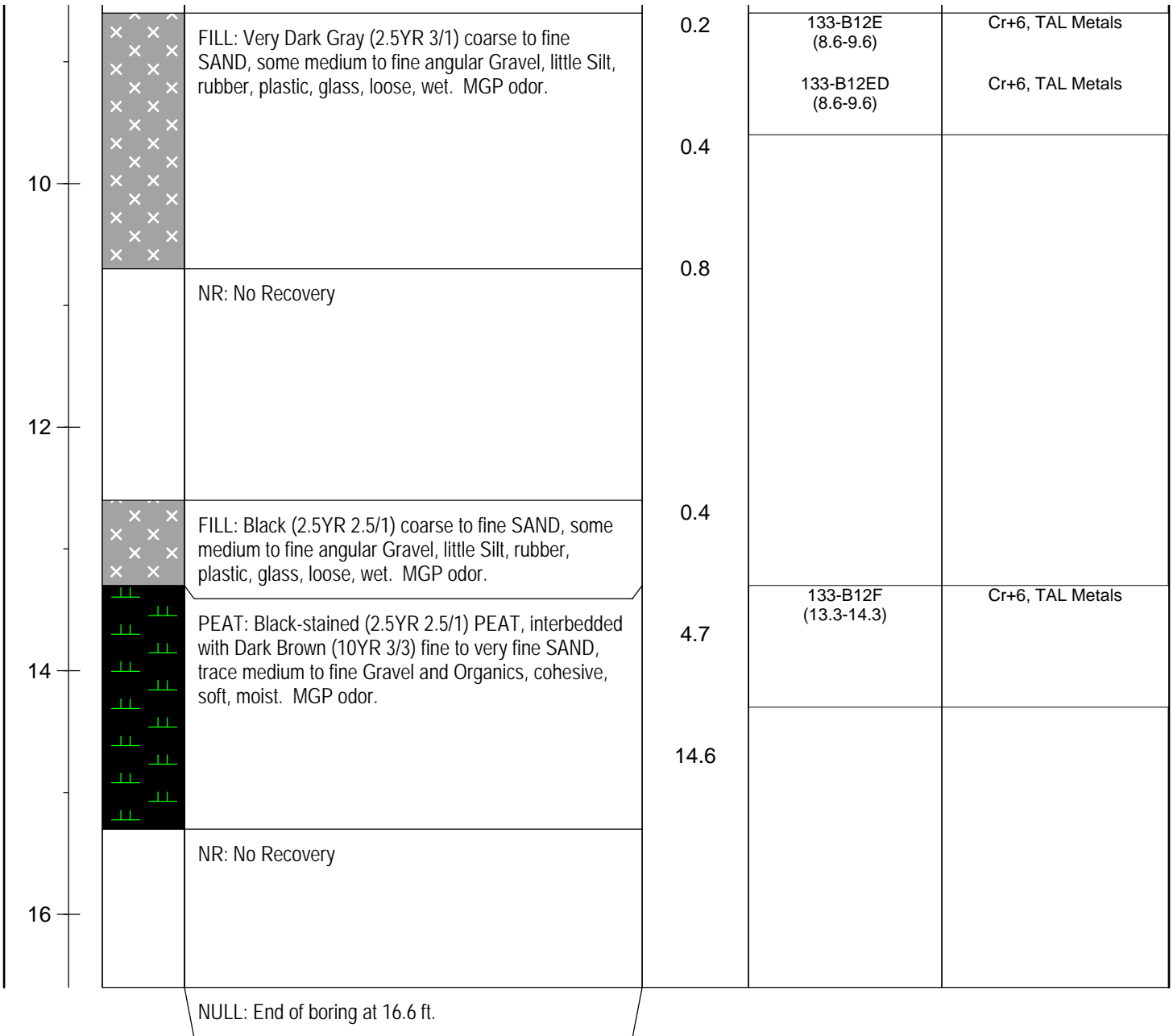
	Client: PPG Industries	BORING ID: 133-B12			
	Site: Site 133				
Start Date: 4/17/2007	Project: Site Investigation	Page: 1 of 2			
	Coordinates: X-611114.7 Y-682515.1	Depth of Boring: 16.60			
End Date: 4/17/2007	Elevation: 14.44	Geologist: B. Ergezen			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, no staining.			
		FILL: Dark Brown (7.5Y 3/3) fine to very fine SAND, some medium to fine sub-angular Gravel, little interbedded Clayey Silt, brick, coal, loose, moist. No odor.	28.0	133-B12A (0.6-1.1)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/4) fine to very fine SAND and SILT, little Clay and medium to fine Gravel, brick, ash, glass, loose, moist. No odor.	22.0	133-B12B(1.1-1.4)	MS/MSD, Cr+6, TAL Metals
2			50.0		
		NR: No Recovery			
		FILL: Reddish Brown (5YR 4/4) fine to very fine SAND and SILT, little Clay and medium to fine Gravel, brick, ash, glass, loose, moist. No odor.	4.2	133-B12C(4.8-5.0)	Cr+6, TAL Metals
				133-B12D (5.0-6.0)	Cr+6, TAL Metals
4		CONCRETE: Light Gray (10YR 7/1) pulverized CONCRETE (Concrete slab), dense, dry. No odor.	8.9		
		FILL: Black (2.5YR 2.5/1) coarse to fine SAND, some medium to fine angular Gravel, little Silt, rubber, plastic, glass, loose, wet. Impacted with Coal Tar. MGP odor.			
		NR: No Recovery			
6					
8					

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	Client: PPG Industries	BORING ID: 133-B12			
	Site: Site 133				
Start Date: 4/17/2007	Project: Site Investigation	Page: 2 of 2			
	Coordinates: X-611114.7 Y-682515.1	Depth of Boring: 16.60			
End Date: 4/17/2007	Elevation: 14.44	Geologist: B. Ergezen			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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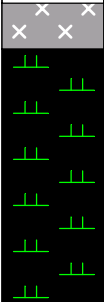
	Client: PPG Industries	BORING ID: 133-B13			
	Site: Site 133				
Start Date: 4/16/2007	Project: Site Investigation	Page: 1 of 2			
	Coordinates: X-611148.7 Y-682572.5	Depth of Boring: 16.40			
End Date: 4/16/2007	Elevation: 13.98	Geologist: B. Ergezen			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, no staining.			
		FILL: Brownish Yellow (10YR 6/6) fine to very fine SAND, little Silt, trace Clay and medium to fine sub-angular Gravel, loose, moist. No odor.	0.3	133-B13A (0.4-1.6)	MS/MSD, Cr+6, TAL Metals
		CONCRETE: Light Gray (10YR 7/1) pulverized CONCRETE (Concrete slab), dense, dry. No odor.	17.6	133-B13B (1.6-2.4)	Cr+6, TAL Metals
2		FILL: Dark Brown (10Y 3/3) coarse to fine SAND, some medium to fine angular Gravel, little coal, trace organics, loose, moist. No odor.	2.1	133-B13C (2.4-3.2)	Cr+6, TAL Metals
		NR: No Recovery			
4		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND and GRAVEL, little Silt, brick, coal, ash, loose, wet. No odor.	0.1		
			0.1		
6			0.1	133-B13D (5.8-6.8)	Cr+6, TAL Metals
		NR: No Recovery			
8					

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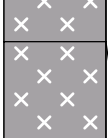
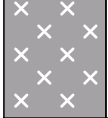
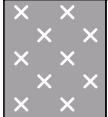
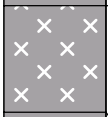
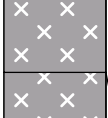
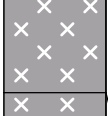
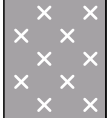
	Client: PPG Industries		BORING ID: 133-B13		
	Site: Site 133				
Start Date: 4/16/2007	Project: Site Investigation		Page: 2 of 2		
	Coordinates: X-611148.7 Y-682572.5		Depth of Boring: 16.40		
End Date: 4/16/2007	Elevation: 13.98		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Dark Gray (2.5Y 4/1) coarse to fine SAND and GRAVEL, little Silt, brick, coal, ash, slag, loose, wet. Slight sulfur odor.	0.1		
			0.0	133-B13E (9.4-10.4)	Cr+6, TAL Metals
12		NR: No Recovery	0.2		
			0.2	133-B13F (12.7-14.4)	Cr+6, TAL Metals
14		FILL: Dark Gray (2.5Y 4/1) coarse to fine SAND and GRAVEL, little Silt, brick, coal, ash, slag, loose, wet. Slight sulfur odor. PEAT: Very Dark Grayish Brown (10YR 3/2) organic CLAY, some Peat, trace fine Gravel, cohesive, soft, moist. Sulfur odor.	0.7	133-B13FD (12.7-14.4)	Cr+6, TAL Metals
			0.4		
16		NR: No Recovery			
NULL: End of boring at 16.4 ft.					

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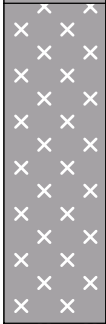
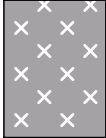
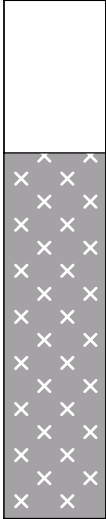
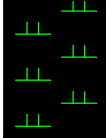

	Client: PPG Industries		BORING ID: 133-B14		
	Site: Site 133				
Start Date: 4/18/2007	Project: Site Investigation		Page: 1 of 2		
	Coordinates: X-611187.7 Y-682628.8		Depth of Boring: 16.50		
End Date: 4/18/2007	Elevation: 14.57		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, slight Green staining.			
		NR: No Recovery	5.3	133-B14A (0.5-1.1)	Cr+6, TAL Metals
		FILL: Dark Brown (7.5YR 3/3) coarse to fine SAND, little Silt, trace medium to fine Gravel, loose, moist. No odor.			
		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND and medium to fine GRAVEL, little coal, brick, Green staining at bottom of sample, loose, moist. No odor.	4.4	133-B14B (1.5-2.5)	Cr+6, TAL Metals
2		NR: No Recovery	2.8		
4					
		FILL: Dark Brown (10YR 3/3) coarse to fine SAND, some medium to fine Gravel, trace Clay and coal, loose, moist. No odor.	0.2	133-B14C (4.5-5.3)	MS/MSD, Cr+6, TAL Metals
		FILL: Pale Olive (5Y 6/3) fine to very fine SAND and SILT, some Clay, trace medium to fine Gravel, cohesive, soft, moist. No odor. (100% Waste Mud)	1.0	133-B14D (5.3-6.0)	Cr+6, TAL Metals
6					
		FILL: Black (5Y 2.5/1) coarse to fine SAND, some medium to fine Gravel, organics, brick, coal, loose, moist. No odor.	1.4	133-B14E (6.0-6.5)	Cr+6, TAL Metals
		FILL: Olive Gray (5Y 4/2) Clayey SILT, some fine to very fine Sand, trace fine Gravel, trace Green staining, cohesive, soft, moist. No odor. (50% Waste Mud)			
		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND and medium to fine GRAVEL, little coal, trace Organics, loose, moist. No odor.			
8					
				133-B14F (6.5-7.4)	Cr+6, TAL Metals
				133-B14G (7.4-8.5)	Cr+6, TAL Metals
				133-B14GD (7.4-8.5)	Cr+6, TAL Metals

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	Client: PPG Industries		BORING ID: 133-B14		
	Site: Site 133				
Start Date: 4/18/2007	Project: Site Investigation		Page: 2 of 2		
	Coordinates: X-611187.7 Y-682628.8		Depth of Boring: 16.50		
End Date: 4/18/2007	Elevation: 14.57		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Dark Olive Gray (5YR 3/2) Silty CLAY, little very fine Sand, trace fine Gravel, cohesive, soft, moist. No odor. (100% Waste Mud)	3.6		
				133-B14H (8.7-9.7)	Cr+6, TAL Metals
12		FILL: Black (5Y 2.5/1) coarse to fine SAND and medium to fine GRAVEL, little Clay, loose, wet. No odor.	2.1		
				133-B14I (10.6-11.5)	Cr+6, TAL Metals
14		NR: No Recovery	6.5		
16		FILL: Black (5Y 2.5/1) coarse to fine SAND and medium to fine GRAVEL, little Clay, trace Green staining, loose, wet. No odor. (50% Mud Waste)	1.1		
16		PEAT: Very Dark Brown (10YR 2/2) Organic CLAY, some Peat, trace fine Gravel, cohesive, medium, moist. Strong sulfur odor.	2.7		
				133-B14J (13.9-14.9)	Cr+6, TAL Metals
		NR: No Recovery	7.4		
				133-B14K (14.9-15.8)	Cr+6, TAL Metals
NULL: End of boring at 16.5 ft.					

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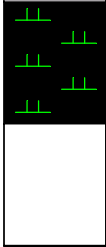
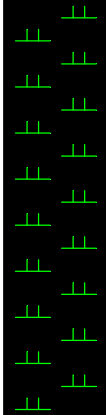
ENSR AECOM	Client: PPG Industries		BORING ID: 133-B16		
	Site: Site 133				
Start Date: 1/24/2007	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-610876.7 Y-682229.3		Depth of Boring: 28.00		
End Date: 1/24/2007	Elevation: 11.53		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0 2 4 6 8	X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	FILL: Brown (10YR 4/3) SILT/CLAY, some organics and little brick fragments, no odor		133-B16A (0.0-0.5)	Cr+6, TAL Metals	
		X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	FILL: Black (5Y 2.5/1) coarse SAND, some fine Gravel, fine gravel sized COPR (30%), little Clay, strong MGP odor	201 ppm		
			576 ppm	133-B16B(2.5-2.9) 133-B16BD(2.5-2.9)	Cr+6, TAL Metals Cr+6, TAL Metals	
			265 ppm			
			301 ppm			
				133-B16C (5.6-6.0)	Cr+6, TAL Metals	
		NR: No Recovery				
		X X X X X X X X X X X X X X X X	FILL: Black (5Y 2.5/1) coarse SAND, some fine Gravel, fine gravel sized COPR (30%), little Clay, strong MGP odor	107 ppm		

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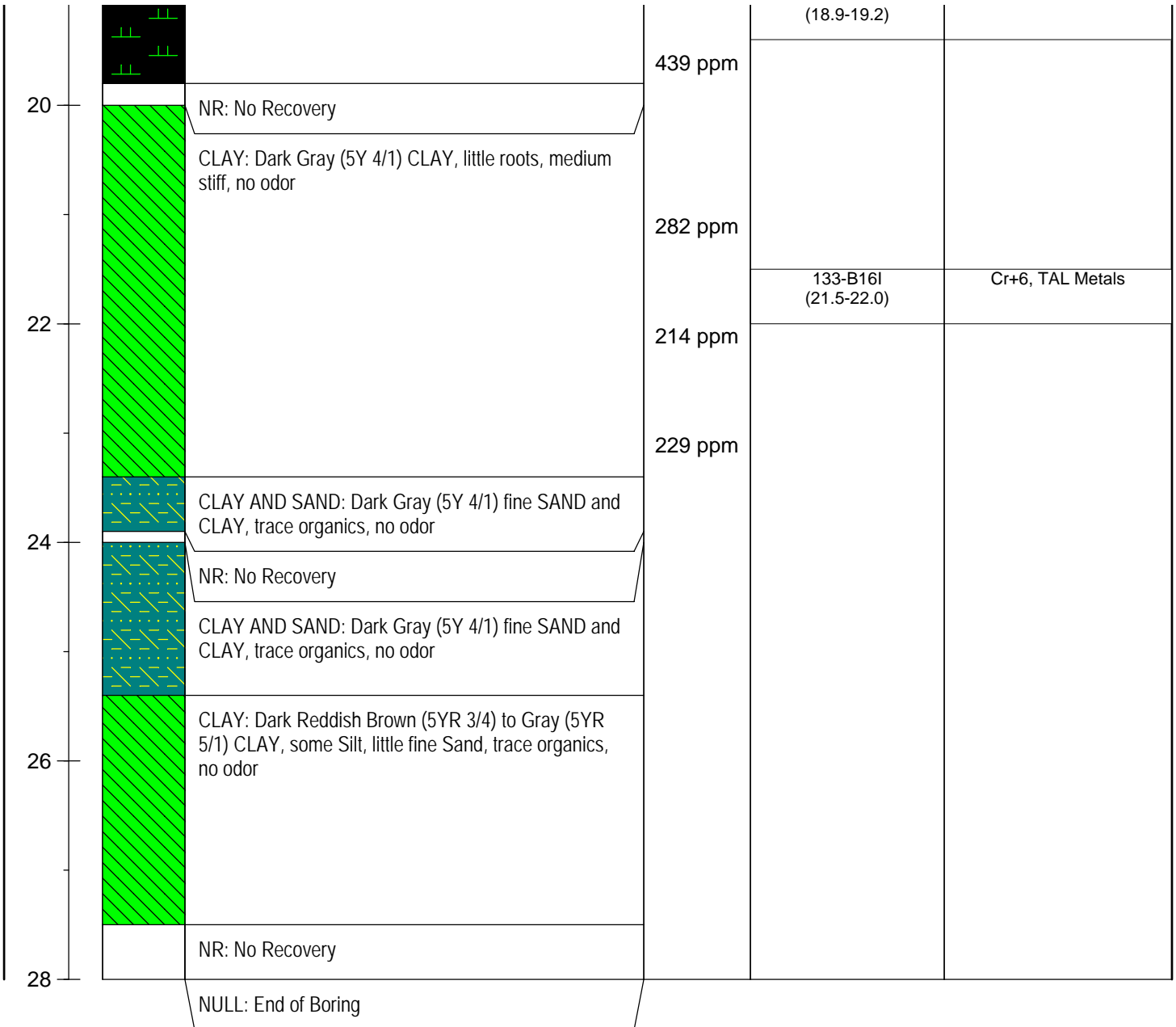
	Client: PPG Industries		BORING ID: 133-B16		
	Site: Site 133				
Start Date: 1/24/2007	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-610876.7 Y-682229.3		Depth of Boring: 28.00		
End Date: 1/24/2007	Elevation: 11.53		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10					
		FILL: Brown (10YR 4/3) dense fine SAND, some Clay and Silt, little fine Gravel, no odor	921 ppm		
				133-B16D (11.5-12.0)	Cr+6, TAL Metals
12					
		FILL: Dark Gray (7.5YR 3/1) ASH, some fine Gravel, little brick and ceramic fragments, trace glass fragments, no odor	0.0 ppm		
				133-B16E (13.2-13.7)	Cr+6, TAL Metals
14					
		PEAT: Meadow Mat, Dark Brown (7.5YR 3/3) CLAY/Organics, no odor			
			12.5 ppm	133-B16F (14.6-15.0)	Cr+6, TAL Metals
		NR: No Recovery			
16					
		PEAT: Meadow Mat, Dark Brown (7.5YR 3/3) CLAY/Organics, no odor	484 ppm		
			629 ppm	133-B16G (17.0-17.3)	Cr+6, TAL Metals
18					
			191 ppm		
				133-B16H	Cr+6, TAL Metals

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	Client: PPG Industries	BORING ID: 133-B16			
	Site: Site 133				
Start Date: 1/24/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610876.7 Y-682229.3	Depth of Boring: 28.00			
End Date: 1/24/2007	Elevation: 11.53	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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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: 610864.5
Date Started Drilling: 7/15/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682220.3
Date Finished Drilling: 7/15/2014 10:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 11 ft
Logged By: RK	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Smith Alley		

(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	469.0	moist	FILL		fine to medium SAND, some silt, little ash, trace roots, trace gravel, trace concrete, (7.5YR 4/3) brown, loose, moist, slight solvent odor.	133-B16-SA-0.5-1.0
2		1429.0	wet	FILL		ASH, and cinders, trace coal, trace slag, trace glass, (7.5YR 4/1) dark gray, loose, wet, slight solvent odor, no staining.	133-B16-SA-2.5-3.0
3	4	1226.0	wet	FILL		ASH, and cinders, little slag, trace coal, trace glass, (7.5YR 3/1) very dark gray, loose, wet, strong petroleum odor, sheen.	133-B16-SA-4.5-5.0
4							
5		246.0	wet	FILL	ASH, some brick, little glass, little ceramics, (10YR 3/4) dark yellowish brown, loose, wet, moderate petroleum odor, sheen.	133-B16-SA-6.5-7.0	
6	3	0.0	moist	FILL		SILT, and fine to medium sand, trace fill, (10BG 6/1) greenish gray, dense, moist, no odor, no staining.	133-B16-SA-8.5-9.0
7		0.0	moist	FILL			
8		0.0	moist	FILL			
9		0.0	moist	FILL			
10	3	0.0	moist	FILL		fine SAND, and silt, little medium to coarse gravel, trace coal, trace ash, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining.	133-B16-SA-10.5-11.0
11						sandy SILT, trace ash, (7.5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining.	

Comments: 1) 3 attempts were made to obtain best recovery 2) No COPR or GGM present in any interval of this boring.

ENSR AECOM	Client: PPG Industries	BORING ID: 133-B17			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-611129.2 Y-682461.7	Depth of Boring: 32.00			
End Date: 1/3/2007	Elevation: 11.47	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		TOPSOIL: Black Topsoil, dry.			
		FILL: WOOD Planks and Roots, dry			
		FILL: Gray ASH and coarse SAND, little fine Gravel, Glass fragments, Rootlets, dry.	0.0 ppm	133-B17A (1.1-1.6)	Cr+6, TAL Metals
2					
		FILL: Black-stained ASH, some Rootlets, Glass, Debris, dry.	20.4 ppm	133-B17B (3.3-3.8)	Cr+6, TAL Metals
4					
		FILL: Black-stained ASH, some Rootlets, Glass, Debris, wet.	0.0 ppm	133-B17C (4.0-4.5)	Cr+6, TAL Metals
		FILL: Black-stained ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. Impacted with viscous MGP Tar. Strong MGP odor.	0.0 ppm		
6		NR: No Recovery			
8		FILL: Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. No odor.	0.0 ppm	133-B17D (8.0-8.5)	Cr+6, TAL Metals
		NR: No Recovery	0.0 ppm		
10					

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


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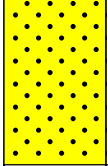
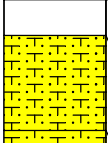
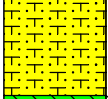
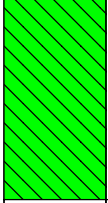
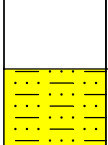
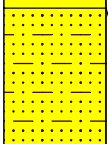
	Client: PPG Industries	BORING ID: 133-B17			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-611129.2 Y-682461.7	Depth of Boring: 32.00			
End Date: 1/3/2007	Elevation: 11.47	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. No odor.	0.0 ppm	133-B17E (12.2-13.2)	Cr+6, TAL Metals
		FILL: Black organic CLAY, trace organics, medium stiff, moist. Slight naphthalene odor.	0.0 ppm	133-B17ED (12.2-13.2)	Cr+6, TAL Metals
		FILL: Dark Gray (10YR 4/1) silty CLAY, soft, moist. No odor.	3.8 ppm		
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	0.5 ppm	133-B17F (13.4-13.9)	Cr+6, TAL Metals
		NR: No Recovery			
14		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor.	1.7 ppm		
			0.9 ppm		
			17.4 ppm	133-B17G (17.5-18.5)	MS/MSD, Cr+6, TAL Metals
16		NR: No Recovery	1.0 ppm		
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor.	2.4 ppm		
18			1.9 ppm		
20				133-B17H	Cr+6, TAL Metals

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	Client: PPG Industries	BORING ID: 133-B17			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-611129.2 Y-682461.7	Depth of Boring: 32.00			
End Date: 1/3/2007	Elevation: 11.47	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

22		CLAY: Dark Gray (10YR 4/1) fine to coarse sandy CLAY, trace Silt, soft, moist. No odor.	0.4 ppm	(21.5-22.0)	
		SAND: Dark Gray (10YR 4/1) fine to coarse SAND, little Silt, trace Clay, loose, wet. No odor.	29.7 ppm		
24		NR: No Recovery	0.0 ppm		
		SILTY SAND: Dark Gray (10YR 4/1) fine to coarse silty SAND, little Clay, loose, wet. No odor.	0.0 ppm		
		SILTY SAND: Dark Gray (10YR 4/1) very fine silty SAND, trace Clay, wet. No odor.	0.0 ppm		
26		CLAY: Dark Grayish Brown (10YR 4/2) medium to coarse sandy CLAY, trace Silt, soft, moist. No odor.	0.0 ppm		
		NR: No Recovery	0.0 ppm		
28		SANDY SILT: Dark Reddish Gray (5YR 4/2) fine to medium sandy SILT, trace Clay, medium stiff, moist. No odor.	0.0 ppm		
		SAND AND SILT: Dark Reddish Gray (5YR 4/2) SAND and SILT, some Clay, loose, moist to wet. No odor.	0.0 ppm		
30			0.0 ppm		
		NR: No Recovery	0.0 ppm		
32		NULL: End of Boring at 32 ft.			

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ENSR AECOM	Client: PPG Industries	BORING ID: 133-B18			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-611256.0 Y-682581.1	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.50	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		TOPSOIL: Black Topsoil, dry.	0.0 ppm	133-B18A (0.4-0.9)	Cr+6, TAL Metals
		FILL: Dark Brown medium SAND and SILT, some fine Gravel, little Rootlets, dry.	0.0 ppm		
		FILL: Gray and little Red-orange ASH, some fine Gravel, little woody Organics, dry.		133-B18B(1.5-2.0) 133-B18BD(1.5-2.0)	Cr+6, TAL Metals Cr+6, TAL Metals
2					
		FILL: Black-gray ASH, some fine to coarse Gravel, trace woody Organics, Sand and Glass, dry.	1.2 ppm		
				133-B18C (3.4-3.9)	Cr+6, TAL Metals
4			0.0 ppm		
		FILL: Gray to Black-stained fine GRAVEL, some coarse Gravel and coarse Sand, trace Glass and Ceramic pieces, wet. Slight petroleum odor.	0.0 ppm	133-B18D (4.5-5.0)	Cr+6, TAL Metals
		FILL: Dark Gray (2.5Y 4/1) ASH, little Silt and Sand, crushed Fill Material (ceramics, glass, rocks, coal, wood), loose, wet. No odor.			
6					
		NR: No Recovery	0.0 ppm		
				133-B18E (8.5-9.0)	Cr+6, TAL Metals
			0.0 ppm		
10			0.0 ppm		
		FILL: Black-stained ASH, little Silt and Sand, crushed			

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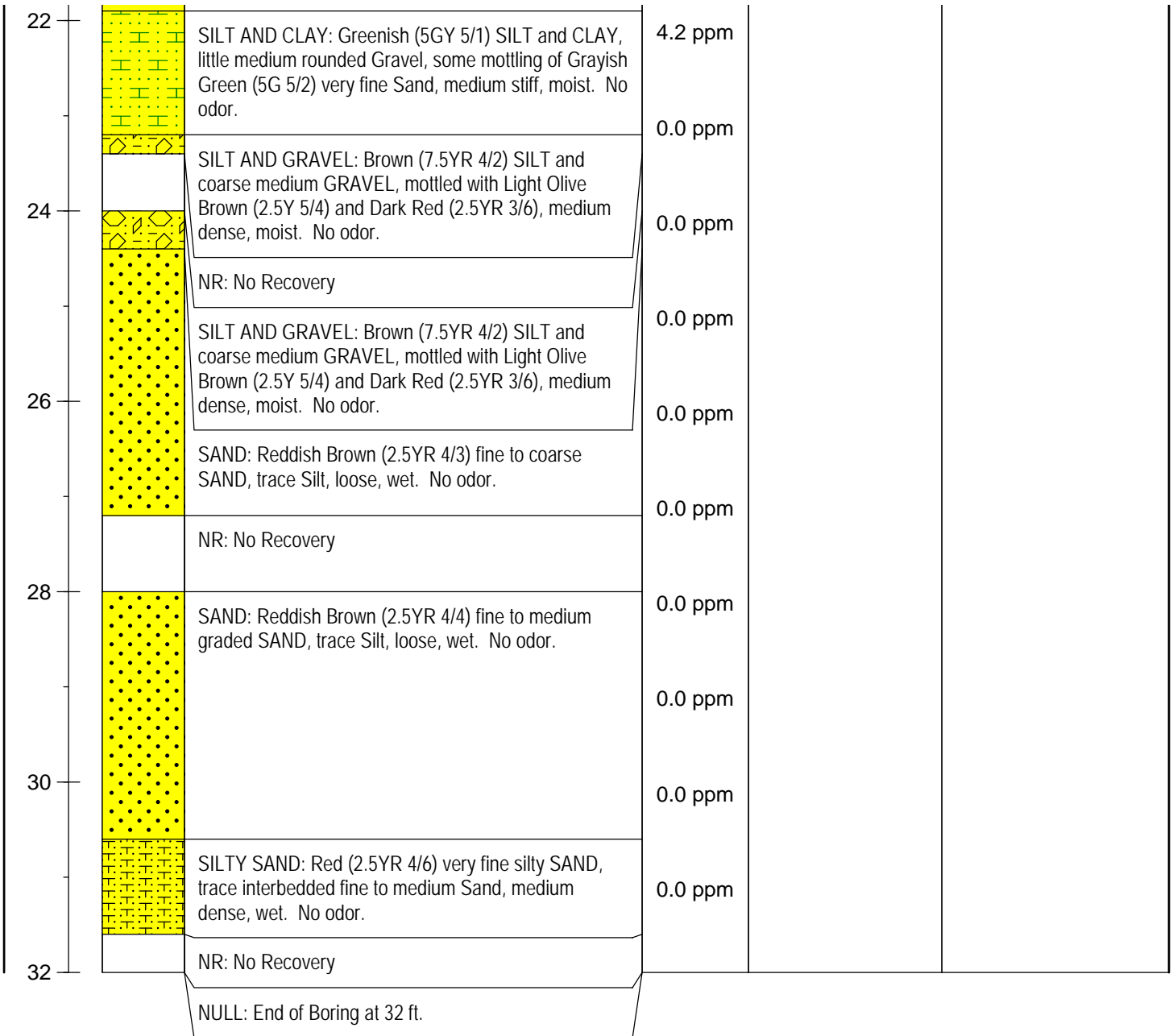
	Client: PPG Industries	BORING ID: 133-B18			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-611256.0 Y-682581.1	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.50	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		Fill Material (ceramics, glass, rocks, coal, wood, rubber, oyster shells, metal), loose, wet. Impacted with Coal Tar. Naphthalene odor.	0.0 ppm	133-B18F (12.0-13.0)	Cr+6, TAL Metals
		FILL: Pale Brown (10YR 6/3) and Light Gray (10YR 7/1) mottled SILT, little Clay, some Gray-Mint Greenish staining, soft, moist. No odor.	0.0 ppm		
14		NR: No Recovery	0.0 ppm		
16		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	5.7 ppm	133-B18G (16.0-17.0)	Cr+6, TAL Metals
			6.9 ppm		Cr+6, TAL Metals
18			13.0 ppm		
			13.5 ppm		
20			18.2 ppm		
		SAND: Dark Gray (5Y 4/1) very fine to fine SAND, trace Silt, loose, wet. Slight sulfur odor.	18.2 ppm	133-B18H (20.2-20.7)	Cr+6, TAL Metals
			6.7 ppm		

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		Client: PPG Industries Site: Site 133	BORING ID: 133-B18		
Start Date: 12/14/2006	Project: Site Investigation		Page: 3 of 3		
		Coordinates: X-611256.0 Y-682581.1	Depth of Boring: 32.00		
End Date: 1/4/2007	Elevation: 11.50		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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ENSR AECOM	Client: PPG Industries	BORING ID: 133-B24			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 1 of 4			
	Coordinates: X- 611215.8 Y-682685.3	Depth of Boring: 32.00			
End Date: 12/18/2006	Elevation: 12.99	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: Street level ASPHALT			
		FILL: Gray coarse GRAVEL Rock (Macadam sub-surface), dry.	0.0 ppm	133-B24A (0.5-1.0)	MS/MSD, Cr+6, TAL Metals
		FILL: Brown coarse SAND, some fine to coarse Gravel, little fine gravel-sized Slag, and trace fine gravel-sized COPR (5%), dry.	0.0 ppm	133-B24B (1.4-1.9)	Cr+6, TAL Metals
2		FILL: Gray ASH, some woody Organics, little Coal and Ceramic pieces, dry.			
		FILL: Red-gray ASH, some fine Gravel, little Glass and Coal fragments, dry.	0.0 ppm	133-B24C (2.8-3.3)	Cr+6, TAL Metals
4		FILL: Dark Brown fine GRAVEL, some coarse Sand, little Brick fragments and medium Gravel, trace fine gravel-sized COPR (5%), dry.	0.0 ppm		
		FILL: Olive Gray (5Y 5/3) SILT, little Clay and jagged Gravel/Concrete pieces, chalky texture, 20% COPR, medium dense, moist. No odor. (WASTE MUD)	0.0 ppm	133-B24D (4.5-5.0)	Cr+6, TAL Metals
6		FILL: Black SILT and fine coarse GRAVEL, loose, wet. No odor.	0.1 ppm		
		FILL: Olive Gray (5Y 5/3) SILT, little Clay and jagged Gravel/Concrete pieces, Bright Green lenses, White and Red-orange lenses, chalky texture, 20% COPR, medium dense, moist. No odor. (WASTE MUD)			
		NR: No Recovery			
8			0.1 ppm	133-B24E	Cr+6, TAL Metals

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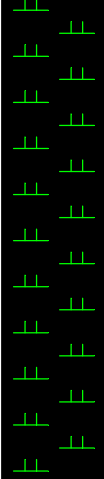
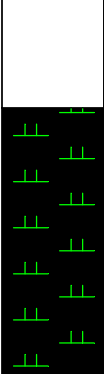
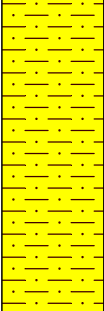
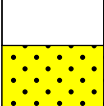
ENSR AECOM	Client: PPG Industries	BORING ID: 133-B24			
	Site: Site 133				
Start Date: 12/14/2006	Project: Site Investigation	Page: 2 of 4			
	Coordinates: X-611215.8 Y-682685.3	Depth of Boring: 32.00			
End Date: 12/18/2006	Elevation: 12.99	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Olive Gray (5Y 5/3) SILT, little Clay and jagged Gravel/Concrete pieces, Bright Green lenses, White and Red-orange lenses, chalky texture, 20% COPR, medium dense, moist. No odor. (WASTE MUD)	0.1 ppm	(8.0-8.5)	
		FILL: BRICK and SLAG	0.2 ppm		
12		FILL: Pinkish Gray (5YR 6/2) and Brown SILT, some Clay, little very fine to fine Sand, 5% COPR. (WASTE MUD)			
		FILL: Dark Brown (7.5YR 3/2) SILT and CLAY, little very fine Sand, 5% COPR, loose, wet. Impacted with Oil. Sewage and Naphthalene odors. NR: No Recovery			
14		FILL: Brown (7.5YR 4/3) SILT, some Clay, trace fine rounded Gravel, Olive-Green staining, loose, wet. Impacted with Yellow oil. Naphthalene odor.	1.8 ppm	133-B24F (12.0-12.5)	Cr+6, TAL Metals
			1.0 ppm		
16		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	0.6 ppm	133-B24G (13.8-14.3)	Cr+6, TAL Metals
		NR: No Recovery	0.8 ppm		
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little	1.0 ppm		

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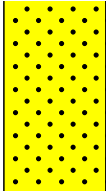
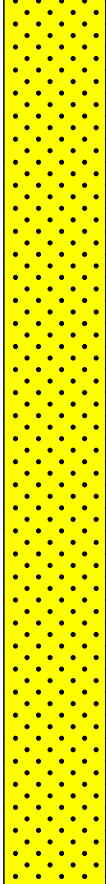
		Client: PPG Industries	BORING ID: 133-B24		
		Site: Site 133			
Start Date: 12/14/2006		Project: Site Investigation		Page: 3 of 4	
		Coordinates: X-611215.8 Y-682685.3		Depth of Boring: 32.00	
End Date: 12/18/2006		Elevation: 12.99		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

18		Organics/Peat, medium stiff, moist. Sulfur odor.	2.8 ppm		
			8.4 ppm	133-B24H (17.5-18.0)	Cr+6, TAL Metals
20		NR: No Recovery	10.4 ppm		
			0.1 ppm		
22		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, some Organics/Peat, trace rounded small Gravel, medium stiff, moist. Sulfur odor.	4.3 ppm		
			2.3 ppm	133-B24I (21.7-22.2)	Cr+6, TAL Metals
24		SILT: Dark Greenish Gray (5GY 4/1) SILT, some very fine Sand, trace Clay, micaceous, moist. No odor.	1.9 ppm		
			0.0 ppm		
		NR: No Recovery			
		SAND: Dark Reddish Gray (10R 4/1) very fine to			

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		Client: PPG Industries	BORING ID: 133-B24		
		Site: Site 133			
Start Date: 12/14/2006	Project: Site Investigation		Page: 4 of 4		
	Coordinates: X-611215.8 Y-682685.3		Depth of Boring: 32.00		
End Date: 12/18/2006	Elevation: 12.99		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

26		medium SAND, trace Silt, loose, wet. No odor.	0.2 ppm				
		SILT: Dark Greenish Gray (5GY 4/1) SILT, trace Clay, medium dense, moist. No odor.	0.0 ppm				
		28		SAND: Weak Red (10R 4/4) fine to coarse SAND, trace Silt, loose, wet. No odor.	0.1 ppm		
					0.0 ppm		
					0.0 ppm		
					0.0 ppm		
30			0.0 ppm				
32			0.0 ppm				
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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casing	N/A			Black (5YR 2.5/1) fine GRAVEL, some medium to coarse Gravel, little Sand and Silt, 10% COPR, rootlets, dry, loose.		
1		133-2CA (0.5-1.0) Cr+6, TAL Metals 133-2CAD (0.5-1.0) Cr+6, TAL Metals	N/A					
2								
3								
4		133-2CB (3.8-4.2) MS/MSD, Cr+6, TAL Metals	N/A					Weak Red (2.5YR 4/2) fine GRAVEL and ASH, some coarse to fine gravel-sized Slag peices, 8% COPR, little ceramic peices. Wet at 4.5 ft bgs.
5		135-2CE (5.0-5.5) Cr+6, TAL Metals	0.0	2				
6			0.0	3				No Recovery
7		135-2CF (7.0-7.5) Cr+6, TAL Metals	0.0	9				Yellowish Brown (10YR 5/4) SILT, little very fine Sand, moist, loose. No odor.
8			0.0	7				
9							4	No Recovery
				3	No Recovery			

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description		
9.0 10 11 12 13 14 15 16 17 18		135-2CG (9.0-9.7) Cr+6, TAL Metals 135-2CGD (9.0-9.7) Cr+6, TAL Metals	0.0	1		Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor.		
					1		No Recovery	
						2		No Recovery
						1		No Recovery
					0.0	1		Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor.
						1		No Recovery
					0.0	1		No Recovery
						1		No Recovery
				135-2CH (13.0-14.0) MS/MSD, Cr+6, TAL Metals	172.0	WH		Dark Brown (7.5YR 3/2) PEAT, organics, moist, cohesive, very soft. Sulfur odor.
					253.0			
					167.0	1		No Recovery
						1		No Recovery
				1		No Recovery		
				1		No Recovery		
			N/A	1		No Recovery		
				1		No Recovery		

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

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

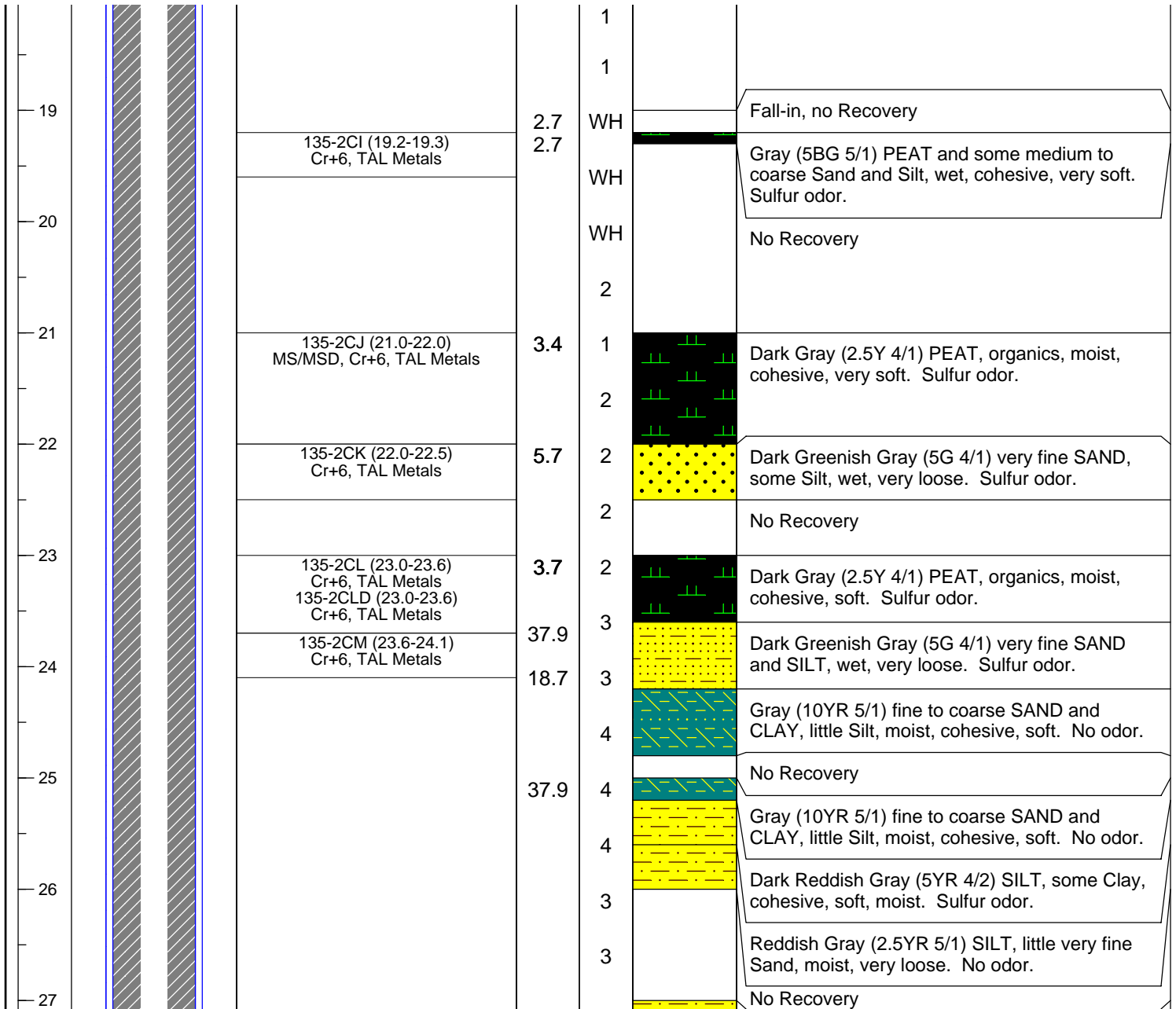
Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

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 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

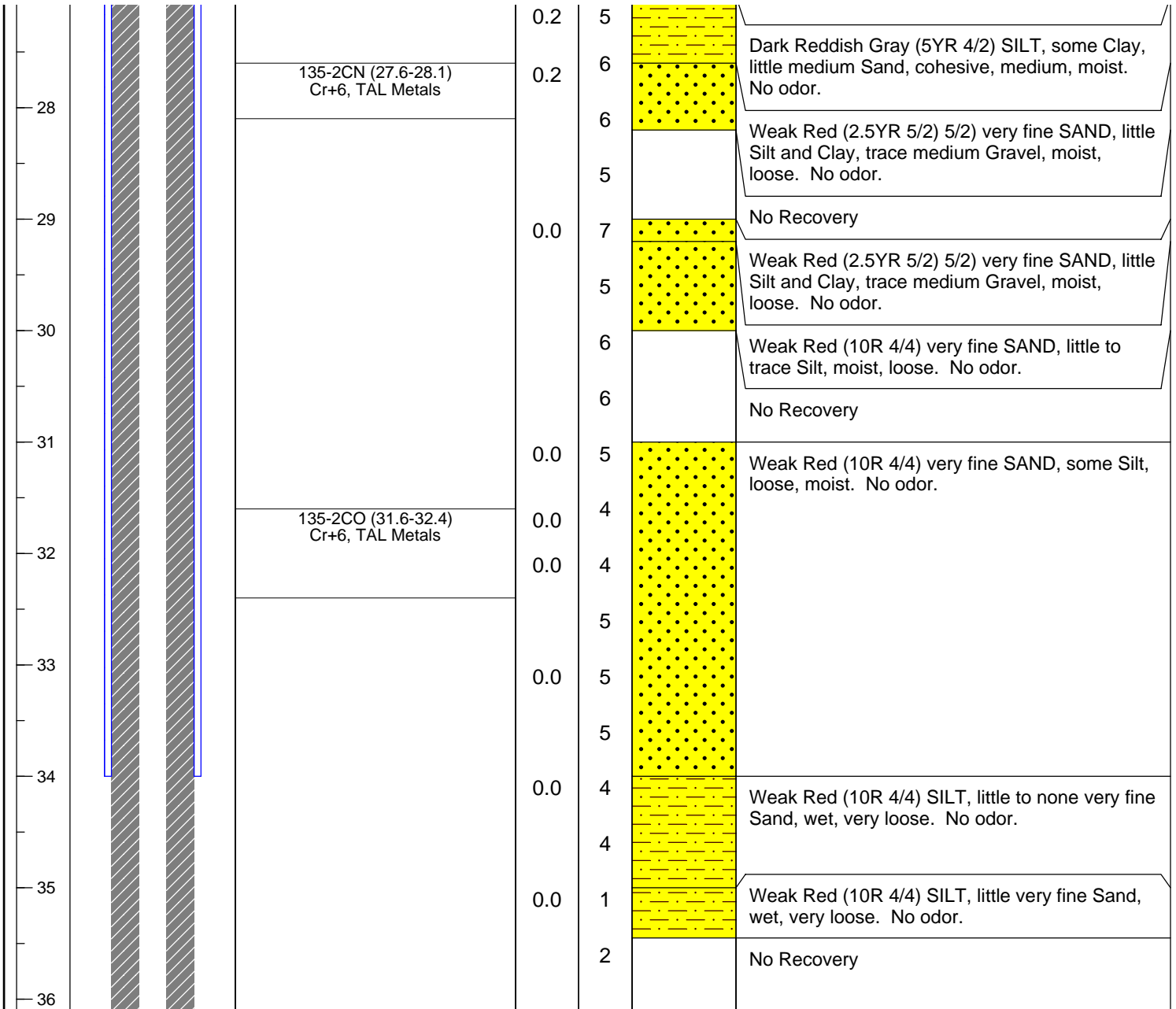
Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-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 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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37			0.0	2		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor.
38				2		No Recovery
39			0.0	3		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, very loose. No odor.
40			0.0	4		No Recovery
41			0.0	10		Weak Red (10R 4/4) very fine SAND, some to little Silt, wet, loose. No odor.
42			0.0	6		No Recovery
43			0.0	3		Weak Red (10R 4/2) fine to medium SAND, little to trace Silt, wet, very loose. No odor.
44			0.0	4		No Recovery
45			0.0	4		

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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46			0.0	3		Weak Red (10R 4/4) SILT and very fine SAND, very loose, wet. No odor.
				5		
47			0.0	4		No Recovery
				2		Weak Red (10R 4/4) SILT, some very fine Sand, very loose, wet. No odor.
48			0.0	3		
				5		No Recovery
49			N/A	5		
				3		
50			N/A	4		
				5		
51			0.0	5		Weak Red (10R 4/4) SILT, wet, loose. No odor.
				5		
52			0.0	6		
				6		No Recovery
53			0.0	3		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
				3		
54			0.0	4		

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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55						No Recovery
			0.0	3		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
56			0.0	3		
				3		No Recovery
57			0.0	3		Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor.
58			0.0	8		
				8		No Recovery
59			0.0	6		Weak Red (10R 4/4) SILT, little very fine Sand, trace Clay, wet, loose. No odor.
60			0.0	10		
				9		No Recovery
61			0.0	8		Weak Red (10R 4/4) SILT, loose, moist. No odor.
62			0.0	9		
				9		No Recovery
63			0.0	4		

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

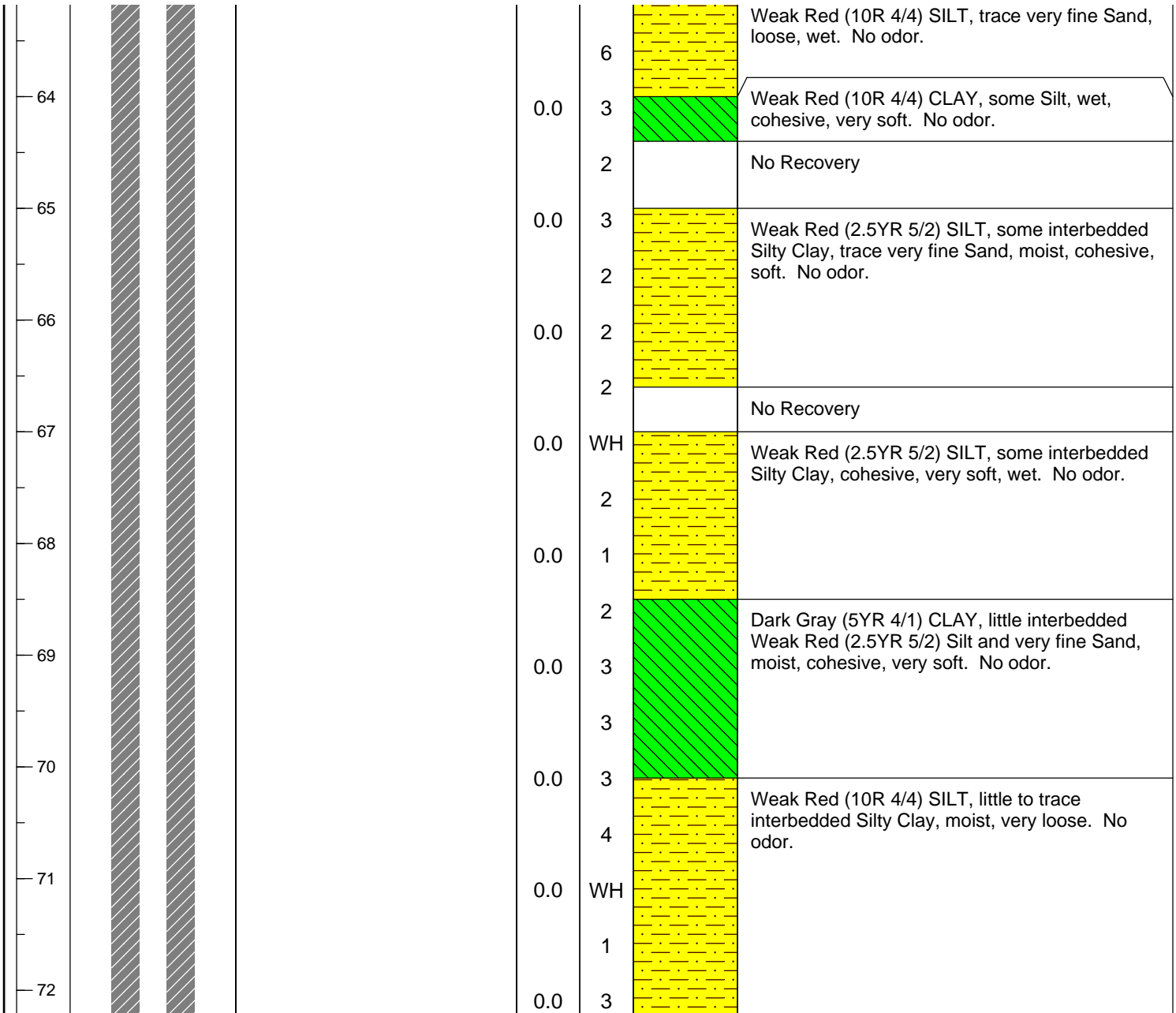
Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-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 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

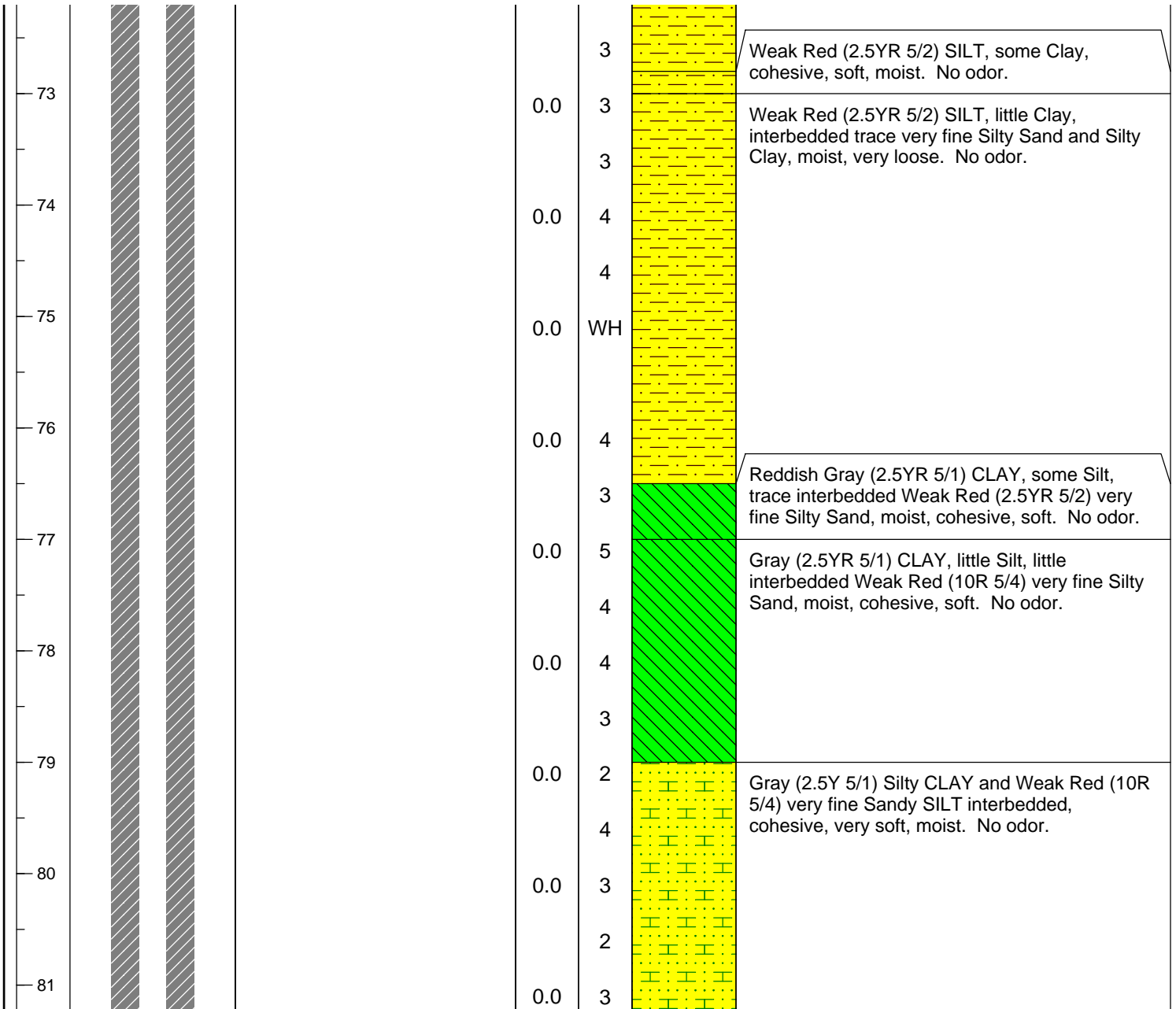
Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-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 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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82			0.0	4		
83			0.0	4		No Recovery
84				3		
85			0.0	6		Reddish Brown (2.5YR 5/3) SILT, trace Clay, loose, moist. No odor.
86				4		No Recovery
87			0.0	2		Gray (2.5Y 5/1) Silty CLAY and Reddish Brown (2.5Y 5/1) very fine Sandy SILT interbedded, cohesive, very soft, moist. No odor.
88			0.0	2		
89			0.0	6		Reddish Brown (2.5YR 5/3) SILT, trace very fine Sand and Clay, interbedded with little Gray (2.5Y 5/1) Silty Clay, moist, loose. No odor.
90			0.0	4		

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Client: PPG Industries

Site: Site 133

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 1/19/2007

Well Completion Date: 4/10/2007

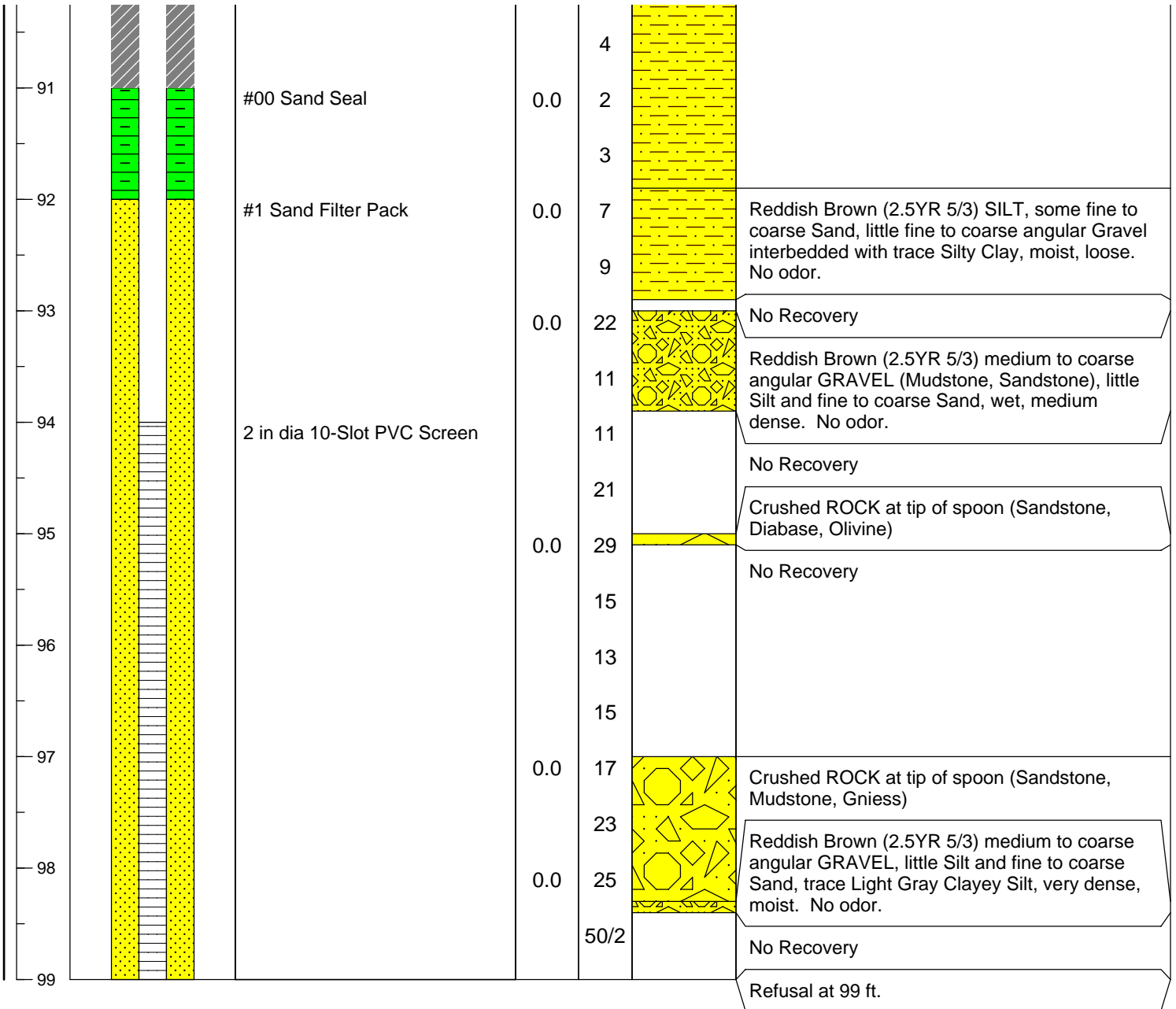
Elevation: 10.4

State Plane Coordinates: X: 682151.3 Y: 610792.2

Drilling Method: HSA/Mud Rotary

133-MW2C

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


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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611319.125
Date Started Drilling: 7/19/2013 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682734
Date Finished Drilling: 7/19/2013 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - AA21A		

(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		fine to medium SAND, some cinders, coal, trace coarse gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining.	
2-3	2	0.0	dry	FILL		fine to medium SAND, some cinders, coal, trace coarse gravel, crushed, (7.5YR 2.5/2) very dark brown, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		ASH, and cinders, with coal, (10YR 6/2) light brownish gray, non plastic, loose to hard, dry, no odor, no staining.	
4-5	2	0.0	dry	FILL		ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	133-P3C-AA21A-5.0-5.5
6-7	1.6	0.0	dry	FILL		ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	133-P3C-AA21A-7.0-7.5
8				NR		NO RECOVERY	
9	1	0.0	dry	FILL		ASH, and cinders, with coal, little ceramics, fine sand, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	133-P3C-AA21A-8.5-9.0
		0.0	moist	FILL		SILT, some fine sand, little ash, trace roots, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining.	
10				NR		NO RECOVERY	
11	1.2	0.0	moist	FILL		SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic soft, moist, no odor, no staining.	133-P3C-AA21A-10.5-11.0
				NR		NO RECOVERY	
12-13	2	0.0	moist	FILL		SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	133-P3C-AA21A-12.5-13.0
14-15	2	0.0	moist	FILL		SILT, with fine sand, little coarse gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining.	133-P3C-AA21A-14.5-15.0
16-17	2	2.3	dry	PT		PEAT (degraded vegetated material), 80% organics fibers, 20% organics silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-AA21A-15.5-16.0 133-P3C-AA21A-16.0-16.5
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: 611310.504
Date Started Drilling: 11/13/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682707.172
Date Finished Drilling: 11/13/2014 11:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - AA22A		

(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		0.0		1	CONCRETE		CONCRETE	
1 - 2	5	0.0	dry	3	FILL		ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	133-P3C-AA22A-1.0-1.5
2 - 3		0.0	dry	3	FILL		fine to medium SAND, some ash, trace debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-AA22A-2.0-2.5
3 - 4		0.0	dry	3	FILL			133-P3C-AA22A-4.0-4.5
4 - 5	5	0.0	moist to wet	3	FILL		CINDERS, little fine to medium silty sand, little wood fragments, trace debris, (10YR 5/2) grayish brown, loose, moist to wet, no odor, no staining.	133-P3C-AA22A-6.0-6.5
5 - 6		0.0	moist to wet	3	FILL			133-P3C-AA22A-8.0-8.5
6 - 7		0.0	moist to wet	3	FILL			133-P3C-AA22A-10.0-10.5
7 - 8	5	0.0	wet	4C	FILL		ASH, little fine to medium gravel, little debris, (10YR 4/2) dark grayish brown, loose, wet, no odor, green staining.	133-P3C-AA22A-10.0-10.5
8 - 9		0.0	wet	4C	FILL			133-P3C-AA22A-12.0-12.5
9 - 10		0.0	wet	4C	FILL			133-P3C-AA22A-12.0-12.5
10 - 11	5	0.0	moist to wet	5	FILL		GGM, little ash, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining.	
11 - 12		0.0	moist to wet	5	FILL			
12 - 13		0.0	moist to wet	5	FILL			
13 - 14	5	0.0	moist to wet	5	FILL		GGM, little ash, (5GY 5/2) grayish green, loose, moist to wet, no odor, no staining.	
14 - 15		0.0	moist to wet	5	FILL			
15 - 16		0.0	moist to wet	5	FILL			
16 - 17	5	0.0	slightly moist	3	FILL		fine to medium silty SAND, trace ash, trace fine gravel, trace organic fibers, (7.5YR 2.5/1) black, soft to loose, slightly moist, no odor, no staining.	133-P3C-AA22A-19.0-19.5
17 - 18		0.0	slightly moist	3	FILL			133-P3C-AA22A-19.5-20.0
18 - 19		0.0	slightly moist	3	FILL			133-P3C-AA22A-20.0-20.5
19 - 20	5	0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	
20 - 21		0.0	slightly moist	7	PT			
21 - 22		0.0	slightly moist	7	PT			
22 - 23	5	0.0	slightly moist	9	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
23 - 24		0.0	slightly moist	9	OL			
24 - 25		0.0	dry to sl moist	8	SP-SM			UND SAND, (7.5YR 5/1) gray, medium dense, dry to slightly moist, slight organic odor, no staining. Soils consistent with UNDno.

PPG - PPG LOGS.GDT - 1/8/15 15:31

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: 611270.135
Date Started Drilling: 3/17/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682626.986
Date Finished Drilling: 3/17/2014 9:50:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - AA25A		

(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	4	0.0		CONCRETE		CONCRETE	
		0.0		FILL		fine to medium SAND, some cinders, trace coal, wood fragments, (10YR 4/6) dark yellowish brown, loose.	
				NR		NO RECOVERY	
5-10	5	0.0	moist	FILL		GGM, some fine sand, little fine gravel, cinders, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining.	
		0.0	moist	FILL		ASH, with cinders, some coal, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-AA25A-10.0-10.5
							133-P3C-AA25A-12.0-12.5
11-15	5						133-P3C-AA25A-14.0-14.5
		0.0	moist	FILL		ASH, with cinders, some coal, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-AA25A-15.0-15.5
		0.0		OL		UNDorg SILT, 90% organic fibers, 20% organic silt, (10YR 5/2) grayish brown, low plasticity, soft, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-AA25A-15.5-16.0
16-18	2						
				NR		NO RECOVERY	
19-20							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611257.479
Date Started Drilling: 4/9/2014 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682598.92
Date Finished Drilling: 4/9/2014 12:30:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - AA26A		

(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		fine to medium SAND, with coarse gravel, some trap rock, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-AA26A-1.0-1.5	
		0.0	dry to moist	FILL				fine to medium SAND, with cinders, some ash, little broken cement, trace glass, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.
2	5	0.0	moist to wet	FILL		fine to medium silty SAND, some ash, little medium gravel, trace wood debris, (10YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining.	133-P3C-AA26A-5.0-5.5	
3								133-P3C-AA26A-3.0-3.5
4								133-P3C-AA26A-7.0-7.5
5	5	0.0	wet to saturated	FILL		fine silty SAND, with wood debris, some coarse gravel, (10YR 4/1) dark gray, loose to medium dense, wet to saturated, no odor, no staining.	133-P3C-AA26A-9.0-9.5	
6								133-P3C-AA26A-11.0-11.5
7								133-P3C-AA26A-13.0-13.5
8								133-P3C-AA26A-13.5-14.0
9	5	0.0	moist	FILL		SILT, (7.5YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining.	133-P3C-AA26A-14.0-14.5	
10								133-P3C-AA26A-14.0-14.5
11								133-P3C-AA26A-14.0-14.5
12	5	0.0	moist	OL		20% organic silt, (7.5YR 2.5/3) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-AA26A-16.0-16.5	
13								133-P3C-AA26A-16.0-16.5
14								133-P3C-AA26A-16.0-16.5
15	5	0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-AA26A-17.0-17.5	
16								133-P3C-AA26A-17.0-17.5
17								133-P3C-AA26A-17.0-17.5
18	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-AA26A-18.0-18.5	
19								133-P3C-AA26A-18.0-18.5
20								133-P3C-AA26A-18.0-18.5

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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.






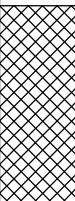
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611243.125
Date Started Drilling: 5/22/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.3125
Date Finished Drilling: 5/22/2013 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - AA27A		

(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		
1	2	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.		
2	1.8	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.		
3		0.0	dry	FILL		ASH, some cinders, coal, wood fragments, (10YR 7/2) light gray, non plastic, loose, dry, no odor, no staining.		
3		0.0	slightly moist	FILL		fine SAND, trace silt, (7.5YR 3/4) dark brown, non plastic, loose, slightly moist, no odor, no staining.		
4	1.1	63.4	moist	NR		NO RECOVERY		
4				FILL		ASH, with tar-like material and cinders, coal, little fine to coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, moderate tar odor, sheen.		
5	1.3	10.6	moist	NR		NO RECOVERY		
6				FILL		ASH, some fine to medium sand, coal, cinders, wood fragments tar-like material, little glass, tar-like material, (7.5YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen, sheen in spilt spoon.	133-P3C-AA27A-6.5-7.0	
7				NR		NO RECOVERY		
8	1	0.0	moist	FILL		ASH, some fine to medium sand, coal, cinders, wood fragments, tar-like material, little glass, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-8.5-9.0	
9				NR		NO RECOVERY		
10	1.2	0.0	moist	FILL		ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-10.5-11.0	
11				NR		NO RECOVERY		
12	0			NR		NO RECOVERY		
13				NR		NO RECOVERY		
14	2	0.0	moist	FILL		ASH, some fine sand, coal, cinders, wood fragments, ceramics tar-like material, little glass, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-14.2-14.7	
15		2.9	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong petroleum odor, no staining. Soils consistent with MM.	133-P3C-AA27A-14.7-15.2
15		0.0	moist	MH			UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, medium plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	
16								

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: Direct Push	Coordinates (NJSPNAD83) x: 611243.362
Date Started Drilling: 6/8/2015 7:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.467
Date Finished Drilling: 6/8/2015 7:00:00 PM	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: P3C-AA27A		Surface Elevation: 11.675 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	4	0.0	dry	3	FILL		ASPHALT, (7.5YR 2.5/1) black, dry, no odor, no staining.	
		0.0	dry	3	FILL		fine to medium SAND, little brick, trace wood debris, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-AA27A-0.5-1.0
		0.0	dry	3	FILL		ASH, little coal fragments, (10YR 5/1) gray, loose, dry, no odor, no staining.	133-P3C-AA27A-2.0-2.5
		0.0	moist	3	FILL		fine to medium SAND, trace ash, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining.	133-P3C-AA27A-3.5-4.0
		0.0	moist	3	FILL		fine to medium, little coal fragments, (7.5YR 2.5/1) black, medium dense, moist, no odor, sheen.	133-P3C-AA27A-3.5-4.0
				3	NR		NO RECOVERY.	
5 6 7 8	3	0.0	wet	3	FILL		Incinerator ASH, little wood debris, trace glass, (10YR 4/2) dark grayish brown, loose, DTW @ 6.0' bgs, from 6.0-8.0' bgs color gray.	133-P3C-AA27A-5.0-5.5
				3	NR		NO RECOVERY.	133-P3C-AA27A-7.0-7.5
9 10								

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611340.211
Date Started Drilling: 11/13/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682710.279
Date Finished Drilling: 11/13/2014 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - BB21A		

(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
1-3	5	0.0		1	CONCRETE		CONCRETE. Some green staining.	
		0.5	dry	3	FILL		fine to medium SAND, trace gravel, (10YR 3/6) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-BB21A-0.5-1.0
		0.9	dry	3	FILL		fine to medium SAND, some ash, trace coal, trace debris, trace gravel, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-BB21A-2.0-2.5
		0.7	slightly moist	3	FILL		ASH, trace fine to medium sand, trace gravel, trace glass, trace debris, (10YR 5/1) gray, loose, slightly moist, no odor, no staining.	133-P3C-BB21A-4.0-4.5
5-9	4	0.0	moist	3	FILL		ASH, trace gravel, trace coal, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-BB21A-6.0-6.5
				NR	NR		NO RECOVERY	133-P3C-BB21A-8.0-8.5
				NR	NR		NO RECOVERY	
10-14	4	0.0	wet	3	FILL		ASH, trace debris, trace gravel, trace coal, trace crushed shell fragments, (10YR 5/1) gray, loose, wet, no odor, no staining.	133-P3C-BB21A-10.0-10.5
				NR	NR		NO RECOVERY	133-P3C-BB21A-12.0-12.5
				NR	NR		NO RECOVERY	133-P3C-BB21A-14.0-14.5
15-19	5	0.0	moist	3	FILL		ASH, trace gravel, trace debris, trace fine to medium sand, (10YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-BB21A-16.0-16.5
		0.0	moist	3	FILL		fine to medium silty SAND, trace gravel, trace ash, trace organic fibers, trace wood fragments, (10YR 4/3) brown, low plasticity, medium dense, moist, no odor, no staining.	133-P3C-BB21A-16.5-17.0
		0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-BB21A-17.0-17.5
20								

PPG - PPG LOGS.GDT - 1/8/15 15:31

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: 611337.545
Date Started Drilling: 3/12/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682693.591
Date Finished Drilling: 3/12/2014 9:50:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - BB22A		

(Note: bgs = below ground surface)

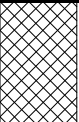
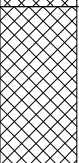
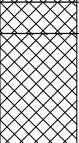
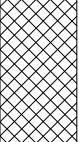
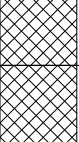
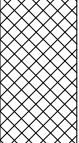
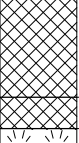













Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0		FILL		CONCRETE	133-P3C-BB22A-1.0-1.5	
		0.0	dry	FILL		fine to medium SAND, with fill material (cinders, ash, concrete, glass, brick), medium dense, dry, no odor, no staining.		
2	5						133-P3C-BB22A-3.0-3.5	
3								
4								
5	5	0.0		FILL		fine to coarse SAND, with coarse gravel, some fill material.	133-P3C-BB22A-5.0-5.5	
6								
7								133-P3C-BB22A-7.0-7.5
8	5	0.0	wet	FILL		fine to coarse SAND, with cinders and fill material, (7.5YR 4/1) dark gray, medium stiff, wet, no odor, no staining.	133-P3C-BB22A-9.0-9.5	
9								
10								
11	5	0.0	wet	FILL		fine to medium SAND, some fill material (cinders, ash, concrete), little gravel, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-BB22A-11.0-11.5	
12								
13								
14	5	0.0	wet	FILL		fine to coarse SAND, with coarse gravel, some fill material, (7.5YR 4/1) dark gray, stiff, wet, no odor, no staining.	133-P3C-BB22A-13.0-13.5	
15								
16								
17	5	0.0	wet	FILL		fine to medium silty SAND, some fill material, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-BB22A-15.0-15.5	
18		0.0	moist to wet	PT			fine to medium silty SAND, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-BB22A-15.5-16.0
19							PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, medium stiff to stiff, moist to wet, moderate organic odor, no staining. Soils consistent with MM.	
20								

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611310.407
Date Started Drilling: 4/8/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682640.177
Date Finished Drilling: 4/8/2014 9:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - BB24A		

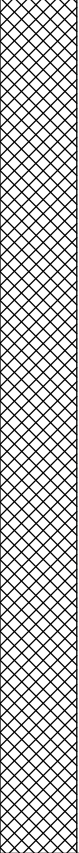
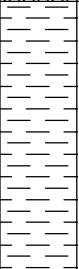


(Note bgs = below ground surface)

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 to moist	FILL		fine to medium SAND, some ash, little coarse gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, sheen.	
2		0.0	moist	FILL		CINDERS, little wood fragments, little coal, trace ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
3		0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (7.5YR 5/1) gray, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining.	
4	5	0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
5		0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
6		0.0	moist	FILL		GGM, some fine sand, little salt precipitate, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
7		0.0	moist	FILL		GGM, some fine sand, (5GY 5/2) grayish green, non plastic, moist, no odor, green staining.	
8	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-BB24A-15.5-16.0
9		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-BB24A-16.0-16.5
10		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
11		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
12		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
13	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
14	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
15	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
16	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
17	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
18	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
19	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		
20	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.		

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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

Project Name: PPG Garfield Ave	Drilling Company: Advanced Drilling Inc.	
Project Number: 60240739	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) x: 611148.2
Date Started Drilling: 1/22/2016 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682630.9
Date Finished Drilling: 1/27/2016 11:00:00 AM	Core Size: 6.0 in	Boring Total Depth: 46 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 5.0
Physical Location:		Surface Elevation: 9.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-15	0	0.0	wet	FILL		Amended DGA, (7.5YR 5/1) gray, wet no odor no staining, wet at 5.0 ft bgs.	
16-20	1.8	1.0	moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, soft, moist slight organic odor no staining. Soils consistent with UNDorg.	
21-25	1	0.0	wet	SP NR		fine to medium SAND, little silt, (7.5YR 5/1) gray, medium dense, wet no odor no staining. Soils consistent with UNDno. NO RECOVERY	
25		0.0	wet	SP		fine to coarse SAND, with gravel, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Advanced Drilling Inc.	
Project Number: 60240739	Drilling Method: HSA/Mud Rotary	Coordinates (NJSPNAD83) x: 611148.2
Date Started Drilling: 1/22/2016 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682630.9
Date Finished Drilling: 1/27/2016 11:00:00 AM	Core Size: 6.0 in	Boring Total Depth: 46 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 5.0
Physical Location:		Surface Elevation: 9.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
27-28	1			NR		with UNDno. NO RECOVERY	
29-30							
30-31		0.0	wet	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent with UNDno.	
31-32	1			NR		NO RECOVERY	
32-33							
33-34							
34-35							
35-36		0.0	wet	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent with UNDno.	133-P3C-MW101-35.0-35.5
36-37	1			NR		NO RECOVERY	
37-38							
38-39							
39-40							
40-41	1.3	0.0	wet	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent with UNDno.	133-P3C-MW101-40.0-40.5
41-42				NR		NO RECOVERY	
42-43	1	0.0	wet	SP		fine SAND, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent with UNDno.	
43-44				NR		NO RECOVERY	
44-45	1.5	0.0	wet	SM		fine SAND, little silt, (5YR 4/3) reddish brown, medium dense, wet no odor no staining. Soils consistent with UNDno.	133-P3C-MW101-44.0-44.5
45-46				NR		NO RECOVERY	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610851.222
Date Started Drilling: 7/18/2013	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682338.143
Date Finished Drilling: 4/22/2015	Core Size: 3.0 in	Boring Total Depth: 16 ft
Logged By: MI/ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 133 - S40A		

(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		COPR, trace fine to medium sand, (2.5YR 2.5/2) very dusky red, non plastic, loose, dry, no odor, no staining.	
2	1.5	0.0	moist	FILL		GGM, trace ash, non plastic, loose, moist, no odor, green staining.	
		0.0	dry	FILL		CINDERS, little ash, little coal, (5R 6/1) reddish gray, non plastic, loose, dry, no odor, no staining.	
3				NR		NO RECOVERY	
4	1.8	0.0	moist	FILL		fine to medium SAND, with ash, cinders, coal, little wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, green staining.	133-P3C-S40A-5.0-5.5
				NR			
6		0.0	moist	FILL		fine to medium SAND, with ash, cinders, coal, little wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, green staining.	133-P3C-S40A-7.0-7.5
7	1.7	0.0	moist	FILL		fine silty SAND, with wood fragments, some coarse gravel, (5YR 5/2) reddish gray, non plastic, loose to soft, moist, no odor, no staining.	
8		0.0	moist	FILL		NO RECOVERY	133-P3C-S40A-9.0-9.5
9	2			NR		fine silty SAND, with wood fragments, some coarse gravel, little ash, (10YR 5/4) yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	
10		0.0	moist to wet	FILL		SILT, some fine sand, little coarse gravel, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-S40A-11.0-11.5
12	1.5			NR		NO RECOVERY	
13		0.0	moist to wet	FILL		SILT, some fine sand, little coarse gravel, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-S40A-13.0-13.5
14	2			PT		PEAT (degraded vegetated material), 70% 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.	133-P3C-S40A-13.5-14.0
15	1.6	2.1	slightly moist	PT		UNDno SILT, 80% inorganic silt, 20% organic silt, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	133-P3C-S40A-14.0-14.5
16		0.0	moist	OL			NO RECOVERY
16				NR		NO RECOVERY	

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610839.625
Date Started Drilling: 6/25/2013 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682306.25
Date Finished Drilling: 6/25/2013 12:40:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - S41A		

(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	1.1	0.0	dry	FILL		CINDERS, some fine to medium sand, little COPR, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, dry to slightly moist.	133-P3C-S41A-0.5-1.0
				NR		NO RECOVERY	
2-3	2	0.0	slightly moist	FILL		CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist to moist.	133-P3C-S41A-2.5-3.0
4-5	0.5	0.0	moist to wet	FILL		CINDERS, some ash, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet.	133-P3C-S41A-4.0-4.5
				NR		NO RECOVERY	
6-7	1.2	0.0	wet	FILL		CINDERS, some ash, little fine to medium sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor.	133-P3C-S41A-6.0-6.5
				NR		NO RECOVERY	
8-9	1.5	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet, moderate petroleum odor, sheen.	133-P3C-S41A-8.0-8.5
				NR		NO RECOVERY	
10-11	1.5	0.0	moist to wet	FILL		fine to medium silty SAND, some cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist to wet.	133-P3C-S41A-10.0-10.5
		0.0	moist	FILL		fine to medium silty SAND, little ceramics, (5YR 5/3) reddish brown, non plastic, medium dense, moist.	
				NR		NO RECOVERY	
12-13	0.8	0.0	wet	FILL		CINDERS, some ash, some fine to medium sand, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-S41A-12.0-12.5
				NR		NO RECOVERY	
14-15	2	0.0	wet	FILL		CINDERS, some ash, little silt, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-S41A-14.0-14.5
		1.9	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.	133-P3C-S41A-14.5-15.0
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: 610826.301
Date Started Drilling: 4/2/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682279.471
Date Finished Drilling: 4/2/2014 9:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S42A		

(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	0.0	dry	FILL		fine to medium SAND, little coarse gravel, trace brick, trace COPR nodules, (5YR 4/3) reddish brown, loose, dry, no odor, green staining.	133-P3C-S42A-0.5-1.0	
2							133-P3C-S42A-2.5-3.0	
3								
4	4	0.0	dry	FILL		fine to medium SAND, little coarse gravel, little cinders, (5YR 4/1) dark gray, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.		
5		0.0	dry	FILL			133-P3C-S42A-4.5-5.0	
6		90.0	dry to moist	FILL			fine to medium silty SAND, little cinders, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining. crushed CONCRETE, little coarse gravel, (10YR 7/1) light gray, loose, dry, no odor, no staining.	
7							fine to medium SAND, some ash, some cinders, trace wood fragments, (7.5YR 2.5/3) very dark brown, loose, dry to moist, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-6.5-7.0
8								
9	4	320.0	wet	FILL		CINDERS, some coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, moderate hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-8.5-9.0	
10								
11								133-P3C-S42A-10.5-11.0
12	4	0.0	wet	FILL		fine to medium SAND, some cinders, little coarse gravel, little ash, loose, wet, slight hydrocarbon odor, no staining.	133-P3C-S42A-12.5-13.0	
13								
14	4	0.0	moist	FILL		CINDERS, some fine to medium sand, little ash, little coarse gravel, (7.5YR 4/1) dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-14.5-15.0	
15								
16	4	28.6	moist	FILL		CINDERS, some fine to medium sand, little ash, trace ceramics, (7.5YR 4/1) dark gray, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-S42A-16.0-16.5	
17		0.0	wet	PT				133-P3C-S42A-16.5-17.0
18			dry					
19	4					PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.		
20		0.0	dry	OL				UNDorg organic SILT, some organics, little roots, (5YR 4/1) dark gray, low plasticity, medium dense, dry, strong organic odor, no staining. Soils consistent with UNDorg.

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610799.156
Date Started Drilling: 4/4/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682225.996
Date Finished Drilling: 4/4/2014 9:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S44A		

(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		ASH, with cinders, some fine sand, trace glass fragments, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	133-P3C-S44A-0.5-1.0		
2							133-P3C-S44A-2.5-3.0		
3									
4		0.0	slightly moist	FILL		fine to medium sandy ASH, some fine sand, little glass, trace wood fragments, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	133-P3C-S44A-4.5-5.0		
5	5	0.0	moist	FILL		ASH, some cinders, some fine gray sand, trace silt, trace fill debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.			
6								133-P3C-S44A-6.5-7.0	
7									
8		0.0	moist to wet	FILL		fine to medium silty SAND, some medium gravel, trace mixed fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S44A-8.5-9.0		
9	5	0.0	slightly moist	FILL		fine to medium silty SAND, some fine gravel, slightly firm, (7.5YR 4/3) brown, loose, slightly moist, no odor, no staining.			
10								133-P3C-S44A-10.5-11.0	
11									
12									
13									
14		0.0	wet	FILL		ASH, some fine to medium gravel, trace medium to coarse sand, trace coal, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S44A-14.5-15.0		
15	5	0.0	moist to wet	FILL		ASH, some cinders, some medium sand, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S44A-15.5-16.0		
16		0.0	slightly moist	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-S44A-16.0-16.5
17									
18									
19									
20									

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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:	Coordinates (NJSPNAD83) x: 610785.669
Date Started Drilling: 4/4/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682199.155
Date Finished Drilling: 4/4/2014 10:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S45A		

(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	moist to wet	FILL		ASH, some fine sand, some cinders, trace fine gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S45A-0.5-1.0
2	5						133-P3C-S45A-2.5-3.0
3							133-P3C-S45A-4.5-5.0
4							133-P3C-S45A-6.5-7.0
5	5	0.0	wet	FILL		ASH, some cinders, some fine sand, trace coal, trace fine gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S45A-8.5-9.0
6							133-P3C-S45A-10.5-11.0
7							133-P3C-S45A-12.5-13.0
8	5	0.0	moist	FILL		fine to medium silty SAND, trace fine gravel, (7.5YR 6/3) light brown, firm, moist, no odor, no staining.	133-P3C-S45A-14.5-15.0
9							133-P3C-S45A-16.0-16.5
10							133-P3C-S45A-16.5-17.0
11	5	0.0	wet	FILL		ASH, some medium sand, some medium gravel, trace silt, (7.5YR 6/4) light brown, loose, wet, no odor, no staining.	133-P3C-S45A-17.0-17.5
12							133-P3C-S45A-17.5-18.0
13							133-P3C-S45A-18.0-18.5
14	5	0.0	wet	FILL		ASH, some medium sand, some silt, trace fine gravel, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S45A-18.5-19.0
15							133-P3C-S45A-19.0-19.5
16							133-P3C-S45A-19.5-20.0
17	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
18							
19							
20	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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:	Coordinates (NJSPNAD83) x: 610771.987
Date Started Drilling: 4/4/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682172.433
Date Finished Drilling: 4/4/2014 9:30:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S46A		

(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		CONCRETE		CONCRETE	
		0.0	slightly moist	FILL		ASH, with cinders, some coal, little wood fragments, (10YR 4/6) dark yellowish brown, loose, slightly moist, no odor, no staining.	133-P3C-S46A-0.5-1.0
							133-P3C-S46A-2.0-2.5
5-9	4	0.0	moist	FILL		CINDERS, with ash, coal, some fine gravel, little fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-S46A-4.0-4.5
							133-P3C-S46A-6.0-6.5
				NR		NO RECOVERY	133-P3C-S46A-8.0-8.5
10-15	5	0.0	moist	FILL		ASH, with cinders, little wood fragments, fill material, (7.5YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-S46A-10.0-10.5
							133-P3C-S46A-12.0-12.5
							133-P3C-S46A-14.0-14.5
15-19	5	0.0	moist to wet	FILL		medium GRAVEL, some cinders, little silt, fine sand, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S46A-15.0-15.5
		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-S46A-15.5-16.0
		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610758.705
Date Started Drilling: 4/3/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682145.53
Date Finished Drilling: 4/3/2014 10:28:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S47A		

(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		CONCRETE		CONCRETE	
		0.0	dry	FILL		fine to medium SAND, some cinders, coal, ash, little trace ceramics, fill material, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-S47A-0.5-1.0
							133-P3C-S47A-2.5-3.0
5-9	4	0.0	moist	FILL		CINDERS, with ash, some coal, little fine gravel, trace wood fragments, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-S47A-4.5-5.0
							133-P3C-S47A-6.5-7.0
				NR		NO RECOVERY	133-P3C-S47A-8.5-9.0
9-13	5	0.0	moist	FILL		ASH, with cinders, little coal, fine gravel, (7.5YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-S47A-10.5-11.0
		0.0	moist to sl. moist	FILL		ASH, with cinders, little silt, fine gravel, trace wood fragments, fibers, loose, moist to slightly moist, no odor, no staining.	133-P3C-S47A-12.5-13.0
		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.	133-P3C-S47A-13.0-13.5
13-17	5	0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
17-20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610745.081
Date Started Drilling: 4/3/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682118.822
Date Finished Drilling: 4/3/2014 9:30:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S48A		

(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	dry to slight moist	FILL		fine to medium SAND, some cinders, ash, little coal, trace crushed concrete, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining.	133-P3C-S48A-0.5-1.0
2							133-P3C-S48A-2.5-3.0
3							133-P3C-S48A-4.5-5.0
4							
5	4	0.0	slightly moist	FILL		fine to medium SAND, some cinders, ash, little fine gravel, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	
6							133-P3C-S48A-6.5-7.0
7							
8							
9				NR		NO RECOVERY	
10	4	0.0	moist	FILL		ASH, some cinders, little fine gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	133-P3C-S48A-10.5-11.0
11							
12							
13							
13		0.0	moist	FILL		ASH, with cinders, little fine gravel, silt, wood fragments, fibers, loose, moist, no odor, no staining.	133-P3C-S48A-12.2-12.7
13		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/3) dark brown, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-S48A-12.7-13.2
14				NR		NO RECOVERY	
15	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
16							
17							
18							
19							
20							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

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: 610925.5
Date Started Drilling: 6/25/2013 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682394.875
Date Finished Drilling: 6/26/2013 8:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - T37A		

(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	1.6	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		COPR, some fine to medium sand, little silt, (2.5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-T37A-0.5-1.0
		0.0	dry	FILL		fine to medium SAND, with cinders, coal, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	
2	2	0.0	dry	NR		COPR, some fine to medium sand, little silt, (2.5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-T37A-2.5-3.0
		0.0	dry	FILL		NO RECOVERY	
3	2	0.0	dry	FILL		fine to medium SAND, with cinders, coal, trace brick, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-T37A-4.5-5.0
		0.0	dry	FILL		GGM, little fine to medium gravel, (10Y 6/2) light grayish olive, low plasticity, soft to stiff, dry, no odor, green staining.	
4	2	0.0	dry	FILL		GGM, some COPR, little coal, cinders, (10Y 6/2) light grayish olive, low plasticity, soft to stiff, dry, no odor, green staining.	133-P3C-T37A-6.5-7.0
		0.0	dry	FILL		GGM, little fine to medium sand, trace glass, coal, (10Y 6/2) light grayish olive, low plasticity, soft to stiff, dry, no odor, green staining, slight petroleum odor.	
5	2	0.0	dry	FILL		GGM, little fine to medium sand, trace glass, coal, (10Y 6/2) light grayish olive, low plasticity, soft to stiff, dry, no odor, green staining, slight petroleum odor.	133-P3C-T37A-8.5-9.0
		0.0	moist	FILL		GGM, with oil-like material some coal, cinders, (10Y 6/2) light grayish olive (5GY 5/2) grayish green, low plasticity, soft to stiff, dry, moderate petroleum odor, green staining.	
6	2	0.0	moist	FILL		ASH, some silt, some cinders, ceramics, coal, (7.5YR 4/1) dark gray, non plastic, hard to soft, moist, no odor, no staining.	133-P3C-T37A-10.0-10.5
		0.0	moist	FILL		fine to medium silty SAND, some ash, some cinders, ceramics, coal, (5YR 4/3) reddish brown, non plastic, hard to soft, moist, no odor, no staining.	133-P3C-T37A-12.0-12.5
7	1.4	0.0	moist	FILL		NO RECOVERY	
		0.0	moist	FILL		fine to medium silty SAND, some ash, some cinders, ceramics, coal, (5YR 4/3) reddish brown, non plastic, hard to soft, moist, no odor, no staining.	133-P3C-T37A-13.7-14.2
8	0.7	0.0	moist	OL		NO RECOVERY	133-P3C-T37A-14.2-14.7
		1.6	dry	PT		ASH, some silt, some cinders, ceramics, coal, little wood fragments, (7.5YR 4/1) dark gray, non plastic, hard to soft, moist, no odor, no staining.	
9	2	0.0	moist	FILL		SILT, little roots, fine sand, trace ash, (5YR 4/3) reddish brown (7.5YR 4/1) dark gray, non plastic, hard to soft, moist, no odor, no staining.	
		0.0	moist	FILL		SILT, little roots, fine sand, trace ash, (5YR 4/3) reddish brown (7.5YR 4/1) dark gray, non plastic, hard to soft, moist, no odor, no staining.	
10	2	0.0	moist	FILL		UNDorg SILT, 90% organics silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
		0.0	moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
11	1.6	dry	PT	PT			

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: 610907.033
Date Started Drilling: 11/19/2014 10:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682373.238
Date Finished Drilling: 11/19/2014 12:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - T38A		

(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	3	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-T38A-0.5-1.0
		0.0	slightly moist	3	FILL			
2		0.0	slightly moist	4C	FILL			
3							fine to medium SAND, trace ash, trace gravel, (7.5YR 4/6) strong brown, loose to medium dense, slightly moist, no odor, no staining.	133-P3C-T38A-2.0-2.5
4								
5							ASH, trace debris, trace metal, trace glass, trace coal, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining.	133-P3C-T38A-4.0-4.5
6	5	0.0	moist to wet	3	FILL			
7								
8		4.5	wet to saturated	3	FILL			
9							ASH, trace gravel, trace coal, trace debris, (10YR 2/1) black, loose, wet to saturated, no odor, no staining.	133-P3C-T38A-6.0-6.5
10								
11							fine to medium SAND, some ash, little fine gravel, trace wood, (7.5YR 2.5/3) very dark brown, loose, moist, slight petroleum odor, no staining.	133-P3C-T38A-8.0-8.5
12	5	0.0	moist	3	FILL			
13		0.0	wet to saturated	3	FILL			
14								
15							fine silty SAND, (7.5YR 3/2) dark brown, loose, moist to wet, no odor, no staining.	133-P3C-T38A-10.0-10.5
16								
17							fine silty SAND, (7.5YR 3/2) dark brown, loose, moist to wet, no odor, no staining.	133-P3C-T38A-12.0-12.5
18	5	0.0	moist to wet	3	FILL			
19		0.0	moist	9	OL			
20								
							UND organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-T38A-14.0-14.5
								133-P3C-T38A-16.0-16.5
								133-P3C-T38A-16.5-17.0
								133-P3C-T38A-17.0-17.5

PPG - PPG LOGS.GDT - 1/8/15 15:31

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610893.453
Date Started Drilling: 3/24/2014 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682346.259
Date Finished Drilling: 3/24/2014 12:15:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T39A		

(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		CINDERS, and ash, some fine to medium sand, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-T39A-0.5-1.0
2	5						133-P3C-T39A-2.5-3.0
3							
4							
5	5	0.0	moist	FILL		fine to medium silty SAND, little cinders, ash, trace coarse gravel, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	133-P3C-T39A-4.5-5.0
6		74.0	moist to wet	FILL		fine to coarse SAND, with ash, cinders, some coarse gravel, little silt, wood debris, trace glass fragments, (7.5YR 3/1) very dark gray, medium dense, moist to wet, strong solvent odor, hydrocarbon staining.	133-P3C-T39A-6.5-7.0
7							
8							
9	5						133-P3C-T39A-8.5-9.0
10		0.0	moist	FILL		fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	133-P3C-T39A-10.5-11.0
11							
12		0.0	moist to wet	FILL		CINDERS, and ash, with fine to coarse sand, little gravel, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining.	133-P3C-T39A-12.5-13.0
13	5	0.0	moist	FILL		SILT, (10YR 5/2) grayish brown, low plasticity, moist, no odor, no staining.	133-P3C-T39A-13.5-14.0
14		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T39A-14.0-14.5
15		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 5/1) gray, low plasticity, medium stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
16		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
17	5	0.0	moist	SM		UNDno SILT, (7.5YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno.	
18							
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610879.301
Date Started Drilling: 3/25/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682321.481
Date Finished Drilling: 3/25/2014 9:50:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T40A		

(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		CINDERS, some ash, little coarse gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-T40A-0.5-1.0
2	5						133-P3C-T40A-2.5-3.0
3							
4							
5	5	0.0	moist	FILL		fine to medium SAND, with cinders, ash, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining.	133-P3C-T40A-4.5-5.0
6		368	moist to wet	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, strong petroleum odor, hydrocarbon staining.	133-P3C-T40A-6.5-7.0
7							133-P3C-T40A-8.5-9.0
8							
9	5						
10		21.5	wet	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-T40A-10.5-11.0
11		0.0	dry to moist	FILL		fine to medium SAND, some silt, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining.	133-P3C-T40A-12.5-13.0
12							
13	5	0.0	wet	FILL		fine to medium silty SAND, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor.	133-P3C-T40A-14.5-15.0
14		8.9	moist to wet	FILL		CINDERS, with ash, (5YR 3/1) very dark gray, loose, moist to wet, slight petroleum odor, no staining.	133-P3C-T40A-15.0-15.5
15							
16	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T40A-15.0-15.5
17		0.0	moist	OL		UNDorg SILT, 50% organic fibers, 50% organic silt, (10YR 5/1) gray, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
18		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDorg.	
19		0.0	moist	SM		UNDno SILT, (10YR 5/1) gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDno.	
20							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

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: 610866.432
Date Started Drilling: 3/27/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682292.81
Date Finished Drilling: 3/27/2014 12:10:00 PM	Core Size: 2 in	Boring Total Depth: 22 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T41A		

(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	dry dry	CONCRETE		CONCRETE	133-P3C-T41A-1.0-1.5
		0.0		FILL		fine to coarse SAND, little concrete, (10YR 7/1) light gray, loose, dry, no odor, no staining.	
		420	FILL	CINDERS, with wood debris, little ash, little fine to coarse sand, (5YR 2.5/1) black, dry, strong petroleum odor, no staining.			
2							133-P3C-T41A-3.0-3.5
3							
4		0.0		CONCRETE		CONCRETE	
5	4	352		FILL		CINDERS, with wood debris, some coal, little ash, (5YR 2.5/1) black, loose, strong petroleum odor, sheen.	133-P3C-T41A-5.0-5.5
6		27		CONCRETE		CONCRETE	
7							
8							
9	4	180	moist to wet	FILL		CINDERS, with ash, some concrete, little cobbles, trace wood debris, (5YR 3/1) very dark gray, medium dense, moist to wet, strong petroleum odor, no staining.	133-P3C-T41A-9.0-9.5
10		131		FILL			
11		275	FILL	fine to medium SAND, some coarse gravel, little silt, (7.5YR 3/1) very dark gray, wet, strong petroleum odor, hydrocarbon staining.			
12		275	FILL			GRAVEL, oil-like material, (5YR 2.5/1) black, loose, wet, strong solvent odor, hydrocarbon staining.	
13		12.6	wet	FILL			CINDERS, with coarse sand, some gravel, (7.5YR 3/1) very dark gray, wet, moderate petroleum odor, sheen.
14	4	49.5	saturated	FILL		fine to coarse silty SAND, with cinders, (5YR 3/1) very dark gray, medium dense, saturated, strong petroleum odor, sheen.	133-P3C-T41A-13.0-13.5
15		12.6	wet	FILL			
16		0.0	wet	FILL		SILT, little fine to medium sand, (10YR 4/3) brown, low plasticity, very soft, wet, no odor, no staining.	133-P3C-T41A-15.0-15.5
17			wet	NR		NO RECOVERY	
18	1						
19		0.0	wet	FILL		CINDERS, with ash, (10YR 3/1) very dark gray, loose, wet, moderate hydrocarbon odor, hydrocarbon staining.	133-P3C-T41A-19.0-19.5
20	2	189	wet	FILL		CINDERS, with fine to coarse sand, little ash, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, sheen.	133-P3C-T41A-20.0-20.5
21		417	moist	PT			PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.
22		0.0	moist	OL		UNDorg SILT, 50% organic fibers, 50% organic silt, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

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: 610852.924
Date Started Drilling: 3/27/2014 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682265.998
Date Finished Drilling: 3/27/2014 1:10:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T42A		

(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	3.5	82.2	dry	FILL		COPR, with fine to medium sand, some coarse gravel, medium dense, dry, no odor, no staining.	
2							
3							
4				NR		NO RECOVERY	
	4	0.0	moist	FILL		fine to medium silty SAND, (10YR 4/1) dark gray, moist, moderate petroleum odor, no staining.	
5		46.0	moist	FILL		fine to medium SAND, with COPR, some coarse gravel, (5YR 3/2) dark reddish brown, moist, moderate petroleum odor, no staining.	
6		144	moist	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 3/1) very dark gray, loose, moist, strong petroleum odor, sheen.	133-P3C-T42A-7.0-7.5
7							
8	4	161	saturated	FILL		fine to medium silty SAND, with cinders, (10YR 4/2) dark grayish brown, loose, saturated, strong petroleum odor, sheen.	133-P3C-T42A-9.0-9.5
9							
10		18	saturated	FILL		CINDERS, with ash, some coarse gravel, (7.5YR 2.5/1) black, loose, saturated, moderate petroleum odor, sheen.	
11							
12	4	50	dry	FILL		fine silty SAND, (10YR 4/3) brown, medium dense, dry, strong petroleum odor, no staining.	133-P3C-T42A-11.0-11.5
13		45	wet	FILL		fine to medium silty SAND, some cinders, (10YR 4/1) dark gray, loose, wet, moderate petroleum odor, sheen.	
14		44.7	saturated	FILL		CINDERS, with coarse gravel, (5YR 2.5/1) black, very loose, saturated, moderate petroleum odor, sheen.	133-P3C-T42A-13.0-13.5
15		2.5	wet	FILL		fine to medium silty SAND, with coarse gravel, (10YR 4/2) dark grayish brown, medium dense, wet, no odor, sheen.	
16		0.0	wet	FILL		fine to medium silty SAND, little gravel fragments, (10YR 5/2) grayish brown, medium dense, wet, no odor, sheen.	133-P3C-T42A-15.0-15.5
17	4	98.9	wet	FILL		CINDERS, with coarse gravel, some coal, little glass fragments, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, sheen.	133-P3C-T42A-16.2-16.7
18		98	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T42A-16.7-17.2
19							
20		121	moist	OL		UNDorg SILT, 50% organic fibers, 50% organic silt, (10YR 5/1) gray, low plasticity, soft, moist, strong organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS_GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610842.488
Date Started Drilling: 4/1/2014 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682239.038
Date Finished Drilling: 4/1/2014 12:10:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T43A		

(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	0.0	moist	FILL		fine silty SAND, little fine gravel, (5YR 3/2) dark reddish brown, loose, moist, no odor, no staining.	133-P3C-T43A-0.5-1.0		
2		0.0	dry	FILL		coarse GRAVEL, little brick, (10Y 6/2) light grayish olive, (5GY 6/2) light grayish green, loose, dry, no odor, green staining. ASH, with fine to medium sand, little cinders, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining.	133-P3C-T43A-2.5-3.0		
3		0.0	dry	FILL					
4		0.0	dry	FILL					
5	0.0	dry	FILL						
6	4	0.0	moist to wet	FILL		CINDERS, ash, little coarse gravel, little wood fragments, (5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-T43A-6.5-7.0		
7		0.0	wet	FILL		CINDERS, with ash, little medium to coarse gravel, (7.5YR 4/1) dark gray, loose, wet, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-T43A-8.5-9.0		
8	4	17.0	wet	FILL		CINDERS, with ash, little coarse gravel, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	133-P3C-T43A-10.5-11.0		
9		0.0	wet to saturated	FILL			133-P3C-T43A-12.5-13.0		
10		0.0	moist	FILL			133-P3C-T43A-14.5-15.0		
11	4	0.0	moist	FILL		CINDERS, with ash, little coarse gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-T43A-16.5-17.0		
12		0.0	dry	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T43A-17.0-17.5
13		0.0	dry	OL				UNDorg organic SILT, some roots, (7.5YR 4/1) dark gray, low plasticity, soft, dry, strong organic odor, no staining. Soils consistent with UNDorg.	
14		0.0	dry	OL					

PPG - PPG_LOGS_GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610824.231
Date Started Drilling: 4/1/2014 10:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682215.966
Date Finished Drilling: 4/1/2014 11:05:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T44A		

(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		CONCRETE		CONCRETE	
		0.0	dry	FILL		GRAVEL, with crushed concrete, little sand, (5Y 4/2) olive gray, loose, dry, no odor, green staining.	133-P3C-T44A-0.5-1.0
		0.0	dry	FILL			133-P3C-T44A-2.5-3.0
5	4	0.0	dry	FILL		fine to medium GRAVEL, with crushed concrete, some fine to medium sand, (2.5Y 7/1) light gray, (10Y 6/2) light grayish olive, loose, dry, no odor, green staining.	133-P3C-T44A-4.5-5.0
		144.0	dry to moist	FILL			133-P3C-T44A-6.5-7.0
9	4	142.0	moist to wet	FILL		CINDERS, with ash, little coarse gravel, trace wood fragments, trace glass fragments, (5YR 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon staining.	133-P3C-T44A-8.5-9.0
		0.0	dry	FILL			133-P3C-T44A-10.5-11.0
13	4	0.0	moist to wet	FILL		CINDERS, with ash, little coarse gravel, little wood fragments, trace brick, (5YR 4/1) dark gray, moist to wet, no odor, green staining, green water.	133-P3C-T44A-12.5-13.0
							133-P3C-T44A-14.5-15.0
18	4	0.0	moist	FILL		CINDERS, with fine to medium sand, some ash, trace coarse gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-T44A-16.5-17.0
		0.0	dry	OL			133-P3C-T44A-17.5-18.0
		0.0	dry	PT			133-P3C-T44A-18.0-18.5
20						UNDorg SILT, little roots, (7.5YR 5/1) gray, low plasticity, soft, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS_GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610810.83
Date Started Drilling: 4/2/2014 10:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682181.933
Date Finished Drilling: 4/2/2014 11:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - T45A		

(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	CONCRETE		CONCRETE, (10YR 7/1) light gray, loose, dry, no odor, no staining.	133-P3C-T45A-0.5-1.0
		0.0	dry	FILL			
2	5	0.0	dry to moist	FILL		medium SAND, with cinders, little coarse gravel, trace glass fragments, trace wood fragments, (7.5YR 3/2) dark brown, loose, dry to moist, no odor, no staining.	133-P3C-T45A-2.5-3.0
3							133-P3C-T45A-4.5-5.0
4							133-P3C-T45A-6.5-7.0
5							133-P3C-T45A-8.5-9.0
6	5	0.0	moist to moist	FILL		CINDERS, some fine to medium sand, little coarse gravel, trace ceramics, (5YR 3/1) very dark gray, (7.5YR 2.5/1) black, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	133-P3C-T45A-10.5-11.0
7							133-P3C-T45A-12.5-13.0
8							133-P3C-T45A-14.5-15.0
9	5	0.0	dry	FILL		fine silty SAND, little ash, trace coarse gravel, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	133-P3C-T45A-16.5-17.0
10							133-P3C-T45A-17.0-17.5
11	5	0.0	moist to wet	FILL		CINDERS, some fine to medium sand, little glass fragments, little coarse gravel, (7.5YR 3/1) very dark gray, loose, dry to moist, no odor, no staining.	133-P3C-T45A-18.5-19.0
12							133-P3C-T45A-19.0-19.5
13	5	0.0	dry to moist	FILL		CINDERS, some fine to medium sand, little glass fragments, little coarse gravel, (7.5YR 3/1) very dark gray, loose, dry to moist, no odor, no staining.	133-P3C-T45A-20.0-20.5
14							133-P3C-T45A-20.5-21.0
15	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor. Soils consistent with MM.	133-P3C-T45A-21.0-21.5
16							133-P3C-T45A-21.5-22.0
17	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor. Soils consistent with MM.	133-P3C-T45A-22.0-22.5
18							133-P3C-T45A-22.5-23.0
19	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry, strong organic odor. Soils consistent with MM.	133-P3C-T45A-23.0-23.5
20							133-P3C-T45A-23.5-24.0

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610806.131
Date Started Drilling: 4/16/2014 8:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682151.882
Date Finished Drilling: 4/16/2014 9:55:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water:
Physical Location: Smith Property		

(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, some fibers, little crushed concrete, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining.	133-P3C-T46A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, with cinders, some coal, fine gravel, little ash, trace glass, medium dense, dry, no odor, no staining.	133-P3C-T46A-3.0-3.5
5-7	5	0.0	moist	FILL		fine to medium silty SAND, some fine to coarse gravel, little wood debris, trace cinders, ash, (10YR 3/1) very dark gray, dense, moist, no odor, no staining.	133-P3C-T46A-5.0-5.5
		0.0	dry	FILL		fine to medium silty SAND, trace fill material, (7.5YR 6/4) light brown, dense, dry, no odor, no staining.	133-P3C-T46A-7.0-7.5
							133-P3C-T46A-9.0-9.5
11-13	5	0.0	saturated to wet	FILL		fine to medium silty SAND, with ash, some fine to medium gravel, little cinders, trace wood debris, ceramics, (10YR 5/1) gray, loose to medium dense, saturated to wet, no odor, no staining.	133-P3C-T46A-11.0-11.5
		0.0	dry	FILL		fine silty SAND, some ash, little fibers, (10R 4/2) weak red, dense, dry, no odor, no staining.	133-P3C-T46A-13.0-13.5
							133-P3C-T46A-14.3-14.8
15-19	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T46A-14.8-15.3
		0.0	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM.
		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 610785.465
Date Started Drilling: 4/15/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682132.106
Date Finished Drilling: 4/15/2014 11:00:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		









(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	dry	FILL		fine to medium SAND, with coarse gravel, some crushed concrete, (10YR 7/2) light gray, very dense, dry, no odor, no staining.	133-P3C-T47A-0.5-1.0
2		0.0	dry to moist	FILL		fine to medium SAND, with cinders, fine gravel, some ash, little glass, (7.5YR 2.5/1) black, dense, dry to moist, no odor, no staining.	133-P3C-T47A-2.0-2.5
3		0.0	moist to wet	FILL		fine to medium silty SAND, little cinders, ash, trace glass, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining.	133-P3C-T47A-4.0-4.5
4		0.0	saturated to wet	FILL		fine silty SAND, with fine to medium gravel, some ash, cinders, little glass, (10YR 3/1) very dark gray, loose, saturated to wet, no odor, no staining.	133-P3C-T47A-6.0-6.5
5	5	0.0	dry	FILL		fine to medium silty SAND, little ash, (5YR 4/3) reddish brown, dense, dry, no odor, no staining.	
6		0.0	wet to saturated	FILL		fine to medium silty SAND, and ash, some cinders, little fine gravel, (10YR 5/1) gray, loose to medium dense, wet to saturated, no odor, no staining.	133-P3C-T47A-8.0-8.5
7		0.0	saturated	FILL		fine silty SAND, with ash, little wood debris, cinders, (10YR 5/1) gray, very loose to medium dense, saturated, no odor, no staining.	133-P3C-T47A-10.0-10.5
8	5	0.0	moist	FILL		fine silty SAND, trace fibers, (10YR 4/2) dark grayish brown, dense, moist, no odor, no staining.	133-P3C-T47A-11.7-12.2
9		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-T47A-12.2-12.7
10							
11							
12							
13							
14							
15							

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: 610778.4
Date Started Drilling: 7/14/2014 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682132.5
Date Finished Drilling: 7/14/2014 2:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 6.5 ft
Logged By: RK	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Alley		

(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	moist	3	FILL		fine to medium SAND, some ash, trace concrete, trace gravel, trace glass, (7.5YR 4/3) brown, loose, moist, no odor, no staining.	133-P3C-SA-T47A-0.5-1.0
2		1.7		3	FILL		WOOD, slight naphthalene odor.	
3		0.0	moist	3	FILL		ASH, and cinders, some coal, (5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3C-SA-T47A-2.5-3.0
4		0.0	moist	3	FILL		ASH, and cinders, some coal, (5YR 2.5/1) black, loose, moist, no odor, no staining.	
5		0.0	wet	3	FILL		fine to medium SAND, and ash, trace coal, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining.	133-P3C-SA-T47A-4.0-4.5
6	1.5	0.0	moist	3	FILL		CINDERS, little fine to medium sand, trace glass, trace coal, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3C-SA-T47A-5.0-5.5
6		0.0	to wet	3	FILL		fine SAND, little silt, (5YR 4/3) reddish brown, loose, moist to wet, no odor, no staining.	
			wet				CINDERS, little gravel, trace glass, trace coal, (5YR 2.5/1) black, loose, wet, no odor, no staining.	133-P3C-SA-T47A-6.0-6.5

Comments: 1) 3 attempts were made to obtain best recovery 2) 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: 610986.1875
Date Started Drilling: 6/26/2013 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682465
Date Finished Drilling: 6/24/2013 10:30:00 AM	Core Size: 3 in	Boring Total Depth: 18.5 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - U34A		

(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	1.7	0.0	dry	ASPHALT		ASPHALT, (10YR 2/1) black, non plastic, dense, dry. fine silty SAND, some gravel, little COPR, (10YR 4/3) brown, non plastic, medium dense, dry to slightly moist.	133-P3C-U34A-0.5-1.0
		35.9	dry	FILL			
2	1.5	0.0	slightly moist	NR		NO RECOVERY	133-P3C-U34A-2.5-3.0
3				FILL			
4				NR			
5	1.4	2.4	moist	FILL		CINDERS, some ash, little wood, (10YR 3/1) very dark gray, non plastic, medium dense, moist.	133-P3C-U34A-4.5-5.0
6				NR			
7	1.6	0.0		FILL		CINDERS, some ash, little fine silty sand, little gravel.	133-P3C-U34A-6.5-7.0
8				NR			133-P3C-U34A-6.5-7.0
9	1.3	0.0	wet	FILL		CINDERS, some ash, little glass, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-U34A-8.5-9.0
10				NR			
11	1	0.0	wet	FILL		CINDERS, some ash, little glass, little gravel, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-U34A-10.5-11.0
12				NR			
13	1.5	0.0	wet	FILL		CINDERS, some ash, little glass, trace ceramics, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-U34A-12.5-13.0
14				NR			
15	1.5	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 4/1) dark gray, non plastic, medium dense, wet.	133-P3C-U34A-14.5-15.0
16				NR			
17	2.5	0.0	wet	FILL		CINDERS, some ash, little fine silty sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	133-P3C-U34A-16.5-17.0
18				12.4	moist		PT
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM.	133-P3C-U34A-17.5-18.0

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: 610960.998
Date Started Drilling: 11/11/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682415.363
Date Finished Drilling: 11/11/2014 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C- U36A		

(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	dry	FILL		fine to medium SAND, little (20%) COPR, trace glass fragments, (5YR 3/4) dark reddish brown, loose, dry, no odor, no staining.	133-P3C-U36A-0.5-1.0	
2							133-P3C-U36A-2.0-2.5	
3								
4		0.0	dry	FILL		ASH, little debris, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	133-P3C-U36A-4.0-4.5	
5	5	1.7	moist to wet	FILL		fine to medium SAND, little ash, little fine gravel, trace glass, trace coal, (7.5YR 3/1) very dark gray, loose, moist to wet, slight petroleum odor.		
6							133-P3C-U36A-6.0-6.5	
7		275.0	wet	FILL			ASH, little sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U36A-8.0-8.5
8								
9		223.0	wet	FILL		fine to medium silty SAND, little fine to medium gravel, trace ash, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, strong petroleum odor, sheen.		
10	5	70.7	wet	FILL		fine to medium silty SAND, some ash, little coal, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-U36A-10.0-10.5	
11								
12		22.7	moist	FILL			ASH, little fine to medium sand, little fine to medium gravel, (7.5YR 2.5/3) very dark brown, loose, moist, slight petroleum odor, hydrocarbon staining.	133-P3C-U36A-12.0-12.5
13							133-P3C-U36A-14.0-14.5	
14								
15	4	0.0	wet	FILL		ASH, little fine to medium sand, trace organic fibers, (7.5YR 3/1) very dark gray, loose, wet, no odor, hydrocarbon staining.	133-P3C-U36A-16.0-16.5	
16								
17								133-P3C-U36A-18.0-18.5
18				NR		NO RECOVERY		
19								
20	5	0.0	moist	FILL		ASH, trace fine gravel, trace organic fibers, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-U36A-20.3-20.8	
21		0.0	slightly moist	PT			PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, slightly moist, moderate organic odor, no staining.	133-P3C-U36A-20.8-21.3
22							Soils consistent with MM.	
23								

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610960.998
Date Started Drilling: 11/11/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682415.363
Date Finished Drilling: 11/11/2014 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C- U36A		

(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
—							
25							

PPG - PPG_LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610947.267
Date Started Drilling: 11/7/2014 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682386.396
Date Finished Drilling: 11/7/2014 11:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C- U37A		

(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	dry	FILL		medium SAND, some ash, little debris, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-U37A-0.5-1.0		
2							133-P3C-U37A-2.0-2.5		
3									
4		0.0	moist to wet	FILL		GGM, (5GY 4/4) olive green, soft, moist to wet, no odor, no staining.			
5	5	690.0	moist to wet	FILL		medium SAND, some ash, little glass, little fine gravel, (5YR 4/1) dark gray, loose, moist to wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U37A-5.0-5.5		
6							133-P3C-U37A-7.0-7.5		
7									
8		356.0	wet	FILL		ASH, little fine to medium gravel, trace coal, trace ceramics, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor, hydrocarbon staining.			
9							133-P3C-U37A-9.0-9.5		
10	4	0.0	wet to saturated	FILL		ASH, little brick, (7.5YR 2.5/1) black, loose, wet to saturated, slight HC odor, no staining.			
11							133-P3C-U37A-11.0-11.5		
12									
13							133-P3C-U37A-13.0-13.5		
14				NR		NO RECOVERY			
15	5	0.0	moist	FILL		ASH, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-U37A-15.0-15.5		
16		0.0	moist	PT				PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3C-U37A-15.5-16.0
17		0.0	moist	OL					UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.
18									
19									
20									

PPG - PPG_LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610933.679
Date Started Drilling: 11/7/2014 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682359.608
Date Finished Drilling: 11/7/2014 10:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C- U38A		

(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		medium to coarse SAND, trace gravel, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, loose to medium dense, slightly moist, no odor, no staining.	133-P3C-U38A-0.5-1.0	
2							133-P3C-U38A-2.0-2.5	
3								
4		0.0	slightly moist	FILL		fine to medium silty SAND, some GGM, trace gravel, (10Y 6/4) pale olive, slightly moist, no odor, green staining.	133-P3C-U38A-4.0-4.5	
5	5	91.1	slightly moist	FILL		fine to medium SAND, trace ash, trace coal, trace gravel, (10YR 4/3) brown, loose, slightly moist, moderate chemical odor, hydrocarbon staining.	133-P3C-U38A-6.0-6.5	
6								
7								
8		0.0	slightly moist	FILL		fine to medium SAND, trace gravel, trace GGM, (10Y 6/2) light grayish olive, medium dense, slightly moist, no odor, green staining.	133-P3C-U38A-8.0-8.5	
9		1.7	moist	FILL		ASH, trace gravel, trace shell fragments, trace glass, trace wood fragments, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.		
10	5	0.0	wet	FILL		ASH, trace gravel, trace glass, trace coal, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	133-P3C-U38A-10.0-10.5	
11								
12			0.0	moist	FILL		fine to medium silty SAND, trace ash, (10YR 3/4) dark yellowish brown, medium dense, moist, no odor, no staining.	133-P3C-U38A-12.0-12.5
13								133-P3C-U38A-13.5-14.0
14		0.0	slightly moist	PT		PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-U38A-14.0-14.5	
15								

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610920.247
Date Started Drilling: 3/26/2014 10:27:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682332.84
Date Finished Drilling: 3/26/2014 11:15:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - U39A		

(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
1-3	5	0.0		CONCRETE		CONCRETE	
		6.0	dry	FILL		CINDERS, with ash, little coarse gravel, (7.5YR 2.5/1) black, loose, dry, slight petroleum odor, no staining.	133-P3C-U39A-1.0-1.5
		0.0	dry	FILL		CINDERS, with concrete, little fine to coarse sand, trace glass fragments, (10R 5/1) reddish gray, very dense, dry, no odor, no staining.	133-P3C-U39A-3.0-3.5
5-7	5	13.0	moist to wet	FILL		fine to medium SAND, some silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, slight petroleum odor, sheen.	133-P3C-U39A-5.0-5.5
		192.0	wet	FILL		CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U39A-7.0-7.5
11-14	5	4.5	moist	FILL		fine to medium silty SAND, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining	133-P3C-U39A-11.0-11.5
		0.0	wet	FILL		fine to coarse silty SAND, some cinders, ash, little coarse gravel, trace glass, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	
		0.0	wet	FILL		fine to medium silty SAND, (5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	133-P3C-U39A-13.0-13.5
		0.0	moist	FILL		fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	133-P3C-U39A-13.5-14.0
		0.0	moist	PT		SILT, (10YR 4/2) dark grayish brown, low plasticity, moist, no odor, no staining.	133-P3C-U39A-14.0-14.5
15-19	5	0.0	moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, strong organic odor, no staining. Soils consistent with MM.	
		0.0	moist	OL		UNDorg SILT, 50% organic fibers, 50% organic silt, (7.5YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610906.693
Date Started Drilling: 3/26/2014 8:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682306.086
Date Finished Drilling: 3/26/2014 10:20:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - U40A		

(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		CINDERS, with ash, some coarse gravel, little fine to coarse sand, trace concrete, (5YR 3/1) very dark gray, loose, dry, no odor, no staining.	133-P3C-U40A-1.0-1.5	
2	5							
3							133-P3C-U40A-3.0-3.5	
4								
5	5	224	wet	FILL		CINDERS, with ash, some coarse gravel, trace ceramics, (5YR 3/1) very dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U40A-5.0-5.5	
6								
7								133-P3C-U40A-7.0-7.5
8								
9	5							
10								
11		7.3	wet	FILL			CINDERS, with ash, some coarse gravel, (5YR 3/1) very dark gray, loose, wet, slight petroleum odor, sheen.	
12		0.0	wet	FILL				133-P3C-U40A-11.0-11.5
13		10.9	saturated	FILL				
14								
15	0.0	moist	FILL		SILT, little ash and cinders, trace fibers, (5YR 4/1) dark gray, low plasticity, moist, no odor, no staining.		133-P3C-U40A-14.0-14.5	
16	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM.		133-P3C-U40A-14.5-15.0	
17	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.		
18		0.0	moist	OL			UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19								
20								

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610891.202
Date Started Drilling: 3/25/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682280.879
Date Finished Drilling: 3/25/2014 11:35:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - U41A		

(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	
		8.5	dry	FILL		CINDERS, with ash, some fine to coarse sand, (7.5YR 3/4) dark brown, low plasticity, medium dense, dry, no odor, no staining.	133-P3C-U41A-0.5-1.0
2	5						133-P3C-U41A-2.5-3.0
3							
4							
5	5	110.0	wet	FILL		CINDERS, with ash, some coarse gravel, (10YR 4/1) dark gray, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-U41A-4.5-5.0
6							133-P3C-U41A-6.5-7.0
7							
8							
9	5						133-P3C-U41A-8.5-9.0
10		13.5	wet	FILL		CINDERS, with ash and coarse gravel, (10YR 4/1) dark gray, loose, wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-U41A-10.5-11.0
11		10.6	moist	FILL		fine to medium SAND, some cinders, some ash, (10YR 4/2) dark grayish brown, loose to medium dense, moist, slight petroleum odor, no staining.	
12		0.0	moist	FILL		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	
13		0.0	dry	FILL		CINDERS, with ash, some gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-U41A-12.5-13.0
14	5						133-P3C-U41A-14.5-15.0
15		0.0	saturated	FILL		CINDERS, with ash, little fine to medium sand, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-U41A-15.5-16.0
16		0.0	dry	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, firm, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-U41A-16.0-16.5
17							133-P3C-U41A-16.5-17.0
18							
19							133-P3C-U41A-18.5-19.0
20							133-P3C-U41A-19.5-20.0

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 610877.819
Date Started Drilling: 3/26/2014 9:01:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682251.706
Date Finished Drilling: 3/26/2014 9:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - U42A		

(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	0.0	damp to moist	FILL		fine to medium silty SAND, reddish-brown, trace fine gravel, loose, damp to moist, no noticeable odor or COPR.	
2							
3		0.0	moist to wet	FILL		medium silty SAND, gray-brown, some medium gravel, moist to wet, loose, no noticeable odor.	
4	4	0.0	moist to wet	FILL		medium silty SAND, gray-brown, some gravel, loose, moist to damp, no noticeable odor.	
5		85.0	moist to wet	FILL		fine sandy CINDERS, dark gray, some ash and slag fragments, some medium gravel, wet, loose, slight solvent odor, no staining.	
6			damp wet	FILL		coarse sandy CINDERS, with ash, some medium gravel, wet, furnace oil odor, staining.	
7							
8	4	120.0	wet	FILL		medium gravelly CINDERS, some medium sand, trace mixed debris, moist to wet, hydrocarbon odor, black staining.	
9							
10							
11							
12	4	50.0	moist to wet	FILL		medium gravelly CINDERS, gray, ash, some medium sand, moist to wet, slight oil odor.	133-P3C-U42A-16.0-16.5
13							
14							
15							
16	4	10	moist to wet	FILL		SILT, dark gray, firm-slightly firm, damp to moist, no noticeable odor. Soils consistent with UNDno.	133-P3C-U42A-17.5-18.0
17		0.0	damp to moist	SM		fine to coarse organic PEAT (degraded vegetated material), brown, 80% organic fibers, 20% organic silt, damp, organic odor. Soils consistent with MM.	133-P3C-U42A-18.0-18.5
18		0.0	damp	PT			
19							
20							

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.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610877.128
Date Started Drilling: 11/24/2014 11:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682252.458
Date Finished Drilling: 11/24/2014 11:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - U42AR		

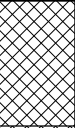
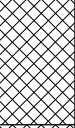
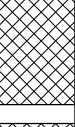
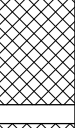
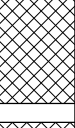
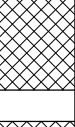

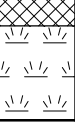


(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0		FILL		DGA		
		0.0		CONCRETE		crushed CONCRETE, trace green staining.		
2	5	0.0	slightly moist	FILL		fine SAND, trace gravel, (2.5YR 3/4) dark reddish brown, medium dense, slightly moist, no odor, no staining.		
3		0.0	slightly moist	FILL		fine SAND, some COPR (40% COPR), (2.5YR 3/4) dark reddish brown, loose, slightly moist, no odor, no staining.		
4		0.0	slightly moist	FILL		ASH, trace coal, (10YR 2/1) black, loose, slightly moist, no odor, no staining.		
5		5	235.0	moist	FILL		ASH, trace gravel, trace debris, trace silty fine sand, (10YR 3/1) very dark gray, medium dense, moist, moderate petroleum odor, no staining.	
6	5		27.0	moist	FILL		fine to medium silty SAND, trace ash, (10YR 3/1) very dark gray, low plasticity, soft to medium dense, moist, slight petroleum odor, no staining.	133-P3C-U42AR-8.5-9.0
9								
10	5	0	moist	FILL		fine to medium silty SAND, trace ash, trace gravel, (10YR 4/1) dark gray, low plasticity, soft to medium dense, moist, no odor, no staining.	133-P3C-U42AR-10.5-11.0	
11								
12								133-P3C-U42AR-12.0-12.5
13								133-P3C-U42AR-14.0-14.5
14								
15								

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610863.6
Date Started Drilling: 6/25/2013 7:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682219.6
Date Finished Drilling: 6/25/2013 10:30:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - U43A		

(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 to slightly mois	FILL		fine to medium silty SAND, some gravel, some cinders, (10YR 3/3) dark brown, non plastic, medium dense, dry to slightly moist.	133-P3C-U43A-0.5-1.0
2	2	0.0	moist to wet	FILL		CINDERS, some ash, (10YR 2/1) black, non plastic, medium dense, moist to wet, moderate petroleum odor.	133-P3C-U43A-2.5-3.0
3		0.0	wet	FILL		CINDERS, some ash, little brick, (10YR 3/1) very dark gray, non plastic, medium dense, wet, slight HC odor.	133-P3C-U43A-4.5-5.0 133-P3C-U43A-4.5-5.0X
4	1.7	0.0	wet	FILL		NO RECOVERY CINDERS, some ash, some silty fine sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	133-P3C-U43A-6.5-7.0
5		0.0	moist	NR FILL		NO RECOVERY fine silty SAND, little clay, little cinders, trace glass, (5YR 5/3) reddish brown, non plastic, dense, moist.	133-P3C-U43A-8.5-9.0
6	1.7	0.0	wet	NR FILL		NO RECOVERY fine silty SAND, little cinders, little clay, (5YR 4/2) dark reddish gray, non plastic, dense, moist.	133-P3C-U43A-10.5-11.0
7		0.0	moist	NR FILL		NO RECOVERY CINDERS, some ash, little sand, little gravel, (10YR 2/1) black, non plastic, medium dense, wet.	133-P3C-U43A-12.5-13.0
8	1.2	0.0	wet	FILL		NO RECOVERY CINDERS, some ash, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-U43A-14.0-14.5
9		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, moderate sulfur odor. Soils consistent with MM.	133-P3C-U43A-14.5-15.0
10	2	1.7	moist	PT			
11							
12							
13							
14							
15							
16							

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: 610853.448
Date Started Drilling: 4/15/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682198.12
Date Finished Drilling: 4/15/2014 10:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		

(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	133-P3C-U44A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, little cinders, trace coal, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, some crushed concrete, little cinders, little medium to coarse gravel, (7.5YR 3/4) dark brown, dry, no odor, no staining.	
3-4	5	75.0	dry	FILL		ASH, some cinders, trace wood fragments, trace coal, (7.5YR 3/1) very dark gray, loose, dry, slight hydrocarbon odor, no staining.	133-P3C-U44A-3.0-3.5
5-6		312.0	dry	FILL		CINDERS, with fine to medium sand, little medium to coarse gravel, trace coal, (7.5YR 2.5/1) black, loose, dry, strong hydrocarbon odor, sheen.	133-P3C-U44A-5.0-5.5
6-7		28.0	moist to wet	FILL		CINDERS, some fine to medium sand, little coarse gravel, trace glass fragments, (7.5YR 2.5/1) black, loose, moist to wet, slight hydrocarbon odor, sheen	133-P3C-U44A-7.0-7.5
8-9	5	0.0	dry	FILL		fine to medium SAND, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-U44A-9.0-9.5
10-11		0.0	moist to wet	FILL		fine to medium SAND, and ash, little cinders, (7.5YR 3/4) dark brown, loose, moist to wet, no odor, no staining.	133-P3C-U44A-11.0-11.5
12-13		0.0	wet	FILL		SILT, trace fibers, (7.5YR 4/2) brown, non plastic, soft, wet, no odor, no staining.	133-P3C-U44A-13.0-13.5
14-15	5	0.0	moist to wet	FILL		fine to medium silty SAND, little medium to coarse gravel, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining.	133-P3C-U44A-15.0-15.5
15-16		0.0	moist	FILL		fine silty SAND, trace fibers, trace medium to coarse gravel, (2.5YR 5/1) reddish gray, loose, moist, no odor, no staining.	133-P3C-U44A-15.5-16.0
16-17		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.	
18-19	5						
20							

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: 611055.375
Date Started Drilling: 7/18/2013 8:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682530.6875
Date Finished Drilling: 7/18/2013 9:05:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - V32A		

(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	1.6	0.0	dry	ASPHALT		ASPHALT, (5Y 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic loose, dry, no odor, no staining.	
2	1.2	0.0	dry	NR		NO RECOVERY	
				FILL		fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
3	1.2	0.0	dry	NR		NO RECOVERY	
				FILL		fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
4	1.4	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, trace coal, (5YR 3/2) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
				FILL		ASH, with cinders, trace coal, (10YR 7/1) light gray, non plastic, loose, moist, no odor, no staining.	
5	1.4	0.0	moist	NR		NO RECOVERY	
				FILL		ASH, with cinders, trace coal, trace ceramics, (5Y 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
6	1.1	0.0	moist	FILL		ASH, with cinders, trace coal, trace ceramics, (5Y 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
				NR		NO RECOVERY	
7	1.1	0.0	moist	FILL		CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic loose, wet, no odor, no staining.	
				NR		NO RECOVERY	
8	1.3	0.0	wet	FILL		CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
				NR		NO RECOVERY	
9	1.3	0.0	moist	FILL		CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
				NR		NO RECOVERY	
10	1.4	0.0	moist	FILL		CINDERS, with ash, trace ceramics, trace glass, trace fine to medium sand, (5Y 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
				NR		NO RECOVERY	
11	1.1	0.0	slightly moist	FILL		SILT, trace roots, (7.5YR 2.5/2) very dark brown, medium plasticity, soft to stiff, slightly moist, no odor, no staining.	
				FILL		fine silty SILT, trace fine to medium gravel, (5YR 5/3) reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining.	133-P3C-V32A-13.0-13.5
12	1.1	0.0	slightly moist	NR		NO RECOVERY	
				FILL		fine silty SILT, trace fine to medium gravel, (5YR 5/3) reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining.	133-P3C-V32A-14.7-15.2
13	1.7	0.0	slightly moist	FILL		fine silty SILT, trace fine to medium gravel, (5YR 5/3) reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining.	133-P3C-V32A-15.2-15.7
				NR		NO RECOVERY	
14	2	0.0	moist	MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
				MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
15	2	0.0	moist	NR		NO RECOVERY	
				MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
16	2	0.0	moist	NR		NO RECOVERY	
				MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
17	2	0.0	moist	NR		NO RECOVERY	
				MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	
18	2	0.0	moist	NR		NO RECOVERY	
				MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, medium plasticity, soft, moist, slight organic odor. Soils consistent with UNDno.	

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: 611028.163
Date Started Drilling: 11/12/2014 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682480.158
Date Finished Drilling: 11/12/2014 11:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V33A		

(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	3	FILL		ASH, little brick, trace coal, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	133-P3C-V33A-0.5-1.0	
2									133-P3C-V33A-2.0-2.5
3									133-P3C-V33A-3.0-3.5
4									
5	4	0.0	moist to wet	3	FILL		CINDERS, little debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-V33A-5.0-5.5	
6									133-P3C-V33A-7.0-7.5
7									133-P3C-V33A-8.0-8.5
8									
9				NR	NR		NO RECOVERY		
10	5	0.0	wet to saturated	3	FILL		CINDERS, little fine to medium sand, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining.	133-P3C-V33A-10.0-10.5	
11									133-P3C-V33A-12.0-12.5
12									133-P3C-V33A-14.0-14.5
13									133-P3C-V33A-14.5-15.0
14									
15	5	0.0	moist	9	OL		UND organic SILT, 70% organic silt, 30% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-V33A-15.0-15.5	
16									
17									
18									
19									
20									

PPG - PPG LOGS.GDT - 1/8/15 15:31

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: 611013.086
Date Started Drilling: 11/12/2014 9:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682453.528
Date Finished Drilling: 11/12/2014 10:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V34A		

(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	dry	FILL		fine to medium SAND, some ash, little fine to medium gravel, (7.5YR 3/4) dark brown, loose, dry, no odor, green staining.	133-P3C-V34A-1.0-1.5
2-3		0.0	dry	FILL		ASH, little ceramics, trace wood fragments, trace fine gravel, trace coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	133-P3C-V34A-2.0-2.5
3-4							
4-5	5	0.0	moist to wet	FILL		ASH, little fine to medium silty sand, trace brick, trace debris, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining.	
5-6							133-P3C-V34A-6.0-6.5
6-8							
8-10	4	0.0	saturated	FILL		ASH, little fine silty sand, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining.	133-P3C-V34A-10.0-10.5
10-12							133-P3C-V34A-12.0-12.5
12-13							
13-14				NR		NO RECOVERY	
14-15	5	0.0	saturated	FILL		ASH, little fine to medium silty sand, trace organic fibers, (7.5YR 2.5/1) black, loose, saturated, no odor, no staining.	133-P3C-V34A-15.0-15.5
15-16							133-P3C-V34A-16.5-17.0
16-17		0.0	saturated	PT			PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, soft to medium stiff, saturated, moderate organic odor, no staining. Soils consistent with MM.
17-18							
18-19							
19-20							

PPG - PPG_LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611001.277
Date Started Drilling: 3/25/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682426.527
Date Finished Drilling: 3/25/2014 10:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 22 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - V35A		

(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	
		0.0	dry	FILL		silty SAND, some COPR, little coarse gravel, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	
3		0.0	moist	FILL		fine to medium silty SAND, some cinders, little fine to coarse gravel, trace wood fragments, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	133-P3C-V35A-2.5-3.0
4-7	4	0.0	wet	FILL		CINDERS, some ash, little wood fragments, trace ceramics, (5Y 5/1) gray, loose, wet, no odor, no staining. Soils consistent with MM.	133-P3C-V35A-4.5-5.0
							133-P3C-V35A-6.5-7.0
8-11	4	0.0	moist	FILL		CINDERS, some ash, little coal, trace glass fragments, (5YR 4/1) dark gray, loose, moist, moderate solvent odor, no staining.	133-P3C-V35A-8.5-9.0
							133-P3C-V35A-10.5-11.0
12-15	4	0.0	dry	FILL		CINDERS, some fine to coarse gravel, little ceramics, trace wood fragments, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-V35A-12.5-13.0
		5.0	wet	FILL		CINDERS, some fine to medium sand, little fine to coarse gravel, trace glass fragments, (7.5YR 3/1) very dark gray, loose, wet, strong solvent odor, no staining.	133-P3C-V35A-14.5-15.0
16-18	4	0.0	dry to moist	FILL		CINDERS, some fine to coarse gravel, little ash, little glass fragments, trace wood fragments, (7.5YR 3/1) very dark gray, loose, dry to moist, no odor, no staining.	133-P3C-V35A-16.5-17.0
		0.0	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, moderate organic odor. Soils consistent with MM.
20-21	2	0.0		PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, moderate organic odor. Soils consistent with MM.	
22							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610987.484
Date Started Drilling: 11/11/2014 10:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682399.703
Date Finished Drilling: 11/11/2014 11:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V36A		

(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	133-P3C-V36A-1.0-1.5					
2		0.0	dry	FILL		fine to medium SAND, some (40%) COPR, little ash, little fine gravel, (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.	133-P3C-V36A-2.0-2.5					
3												
4												
5	5	0.0	dry	FILL		ASH, little brick, trace debris, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-V36A-4.0-4.5					
6		450.0	wet	FILL		ASH, little crushed concrete, trace wood fragments, trace debris, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining.	133-P3C-V36A-6.0-6.5					
7												
8												
9	5	9.1	wet	FILL		ASH, little debris, little fine to medium gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, wet, moderate petroleum odor.	133-P3C-V36A-10.0-10.5					
10												133-P3C-V36A-12.0-12.5
11												
12												
13	5	0.0	wet	FILL		ASH, trace wood, trace organic fibers, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	133-P3C-V36A-15.0-15.5					
14		0.0	slightly moist	PT			PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/3) dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-V36A-15.5-16.0				
15												
16												
17												
18												
19												
20												

PPG - PPG_LOGS.GDT - 1/9/15 10:39

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610974.016
Date Started Drilling: 10/27/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682372.822
Date Finished Drilling: 10/27/2014 11:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V37A		

(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		FILL		CONCRETE	
		0.0	dry	FILL		ASH, trace coal, trace debris, trace glass, trace wood fragments, (10YR 4/6) dark yellowish brown, loose to medium dense, dry, no odor, no staining.	133-P3C-V37A-0.5-1.0
2	5						
3							133-P3C-V37A-2.5-3.0
4	5	0.0	dry	FILL		ASH, trace coal, trace debris, trace wood fragments, (10YR 5/1) gray, loose to medium dense, dry, no odor, no staining.	133-P3C-V37A-4.5-5.0
5		0.0	moist	FILL		ASH, trace coal, trace debris, trace wood fragments, (10YR 5/2) grayish brown, loose to medium dense, moist, moderate petroleum odor, no staining.	
6	4	150.0	moist	FILL		ASH, trace coal, trace wood fragments, trace ceramics, (10YR 2/1) black, loose, moist, slight petroleum odor, no staining.	133-P3C-V37A-6.5-7.0
7		76.0	moist	FILL			
8		203.0	wet	FILL			
9						NR	
10	4					CINDERS, trace debris, trace coal, (10YR 3/1) very dark gray, loose, wet, moderate petroleum odor, no staining. NO RECOVERY	
11		128.0	wet to saturated	FILL			133-P3C-V37A-10.5-11.0
12							
13	4						133-P3C-V37A-12.5-13.0
14				NR			
15	5	0.0	moist	FILL		CINDERS, trace debris, trace coal, (10YR 4/1) dark gray, loose to medium dense, moist, no odor, no staining.	133-P3C-V37A-15.0-15.5
16		0.0	moist	ML		SILT, (10YR 4/1) dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	133-P3C-V37A-16.0-16.5
17		0.0	moist	PT		PEAT (degraded vegetated material), 70% organic silt, 30% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, soft to medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-V37A-16.5-17.0
18							
19		0.0	moist	OL		organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, moist, slight organic odor. Soils consistent with UNDorg.	
20							

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610960.629
Date Started Drilling: 10/27/2014 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682346.116
Date Finished Drilling: 10/27/2014 12:10:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - V38A		

(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	moist to wet	FILL		ASH, trace coal, trace ceramics, trace fine to medium gravel, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining.	133-P3C-V38A-0.5-1.0
2							133-P3C-V38A-2.5-3.0
3							133-P3C-V38A-4.5-5.0
4							
5	5	200.0	wet to saturated	FILL		ASH, trace coal, trace brick, trace fine gravel, (10YR 3/2) very dark grayish brown, loose, wet to saturated, slight petroleum odor and staining.	133-P3C-V38A-6.5-7.0
6							133-P3C-V38A-6.5-7.0
7							133-P3C-V38A-8.5-9.0
8							
9	5	0.0	wet	FILL		ASH, trace debris, trace fine to medium gravel, trace coal, (10YR 3/2) very dark grayish brown, loose, wet, slight petroleum odor and staining.	133-P3C-V38A-10.5-11.0
10							133-P3C-V38A-12.5-13.0
11							
12							
13	5	0.0	moist	FILL		fine silty SAND, trace ash, (10YR 2/2) very dark brown, loose, moist, no odor, petroleum staining.	133-P3C-V38A-14.5-15.0
14							133-P3C-V38A-15.5-16.0
15							133-P3C-V38A-16.0-16.5
16							
17	5	0.0	moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	
18							
19							
20		0.0	slightly moist	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS.GDT - 1/9/15 10:39

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: 610949.692
Date Started Drilling: 4/22/2014 7:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682314.688
Date Finished Drilling: 4/22/2014 9:05:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - V39A		

(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	5	0.0	dry	FILL		fine to coarse SAND, with fine to coarse gravel, (10YR 3/1) very dark gray, very loose, dry, no odor, no staining.	133-P3C-V39A-0.5-1.0	
		0.0	dry	FILL			133-P3C-V39A-2.0-2.5	
		0.0	dry	FILL			133-P3C-V39A-4.0-4.5	
		0.0	dry	FILL			133-P3C-V39A-4.0-4.5	
5-9	4	13.4	dry	FILL		CINDERS, with ash, trace coal, (5YR 2.5/1) black, loose, dry, slight hydrocarbon odor, no staining.	133-P3C-V39A-6.0-6.5	
		558	wet	FILL			133-P3C-V39A-6.0-6.5	
				NR			NO RECOVERY	133-P3C-V39A-8.0-8.5
10-15	5	55.1	saturated to wet	FILL		fine to medium silty SAND, and ash, with cinders, some fine to coarse gravel, (10YR 4/1) dark gray, saturated to wet, moderate hydrocarbon odor, sheen.	133-P3C-V39A-10.0-10.5	
		0.0	moist	FILL			133-P3C-V39A-12.0-12.5	
		0.0	moist	FILL			133-P3C-V39A-14.0-14.5	
		0.0	moist	FILL			133-P3C-V39A-14.5-15.0	
15-19	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-V39A-15.0-15.5	
		0.0	moist	OL				UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.
		0.0	moist	OL				UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.
20								

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610933.54
Date Started Drilling: 4/21/2014 7:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682292.54
Date Finished Drilling: 4/21/2014 8:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - V40A		

(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		fine to medium GRAVEL, some asphalt, little wood debris, trace organics, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-V40A-0.5-1.0
		0.0	dry	FILL			
		0.0	dry	FILL			
		0.0	dry	FILL			
2	5	0.0	dry	FILL		fine to medium SAND, with asphalt, some fine to medium gravel, little wood debris, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-V40A-2.0-2.5
		0.0	dry	FILL			
3	5					fine to medium SAND, some asphalt, trace glass, brick fragments, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining.	
4	5					fine to coarse SAND, with fine to medium gravel, some brick, (10YR 4/1) dark gray, medium dense to loose, dry, no odor, no staining.	133-P3C-V40A-4.0-4.5
5	3.5	0.0	dry	FILL		fine to medium silty SAND, with debris, some ash, cinders, little brick, glass, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-V40A-5.0-5.5
6		0.0	dry	FILL			
7		246.0	moist to wet	FILL			
8		103.0	wet	FILL			
9	3.5	135.0	moist	FILL		fine to medium silty SAND, some ash, cinders, wood debris, glass, (10YR 4/2) dark grayish brown, dense, moist to wet, strong hydrocarbon odor, sheen.	133-P3C-V40A-6.0-6.5
10	3.5			NR		CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black, loose, wet, strong hydrocarbon odor, hydrocarbon staining, sheen.	133-P3C-V40A-7.0-7.5
11	3.5	74.5	wet	FILL		fine to medium silty SAND, with cinders, some debris, trace glass, (10YR 3/1) very dark gray, loose, moist, strong hydrocarbon odor, sheen.	133-P3C-V40A-8.0-8.5
12	4.5	19.0	wet to moist	FILL		NO RECOVERY	133-P3C-V40A-10.0-10.5
13	4.5					fine to medium silty SAND, some ash, little cinders, trace wood debris, (7.5YR 2.5/1) black, medium dense, wet, moderate hydrocarbon odor, no staining.	133-P3C-V40A-12.0-12.5
14	4.5	0.0	moist	FILL		fine to medium silty SAND, with wood debris, (10YR 4/2) dark grayish brown, dense, wet to moist, slight hydrocarbon odor, no staining.	133-P3C-V40A-14.0-14.5
15	4.5					NO RECOVERY	
16	5	0.0	moist	FILL		fine to medium silty SAND, some debris, glass, (7.5YR 2.5/1) black, medium dense, moist, no odor, no staining.	133-P3C-V40A-15.3-15.8
17		0.0	dry	FILL			
18		0.0	dry	PT			
19		0.0	moist	OL			
20	5					SILT, some fibers, trace glass, (10YR 3/3) dark brown, low plasticity, soft, dry, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-V40A-15.8-16.3

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611125.75
Date Started Drilling: 7/17/2013 1:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682601.0625
Date Finished Drilling: 7/17/2013 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - W28A		

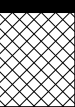
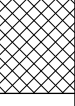
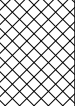
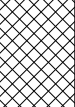
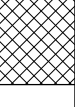
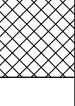


(Note bgs = below ground surface)

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			
2-3	2	0.0	dry	FILL		fine to medium SAND, and cinders, ash, little coal, fine gravel, (10YR 5/4) yellowish brown, non plastic, loose, dry, no odor, slight green staining.	
				NR			
4-5	1	0.0	moist	FILL		GGM, with cinders, some wood fragments, ash, little salt precipitate, (5GY 4/4) olive green, moist, no odor, green staining.	
				NR			
6-7	2	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3C-W28A-6.5-7.0
8-9	2	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3C-W28A-8.5-9.0
10-11	1.4	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, little ceramics, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3C-W28A-10.5-11.0
		0.0	moist to wet	FILL			
11-12	2	0.0	moist to wet	NR		SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-W28A-12.5-13.0
12-13				FILL		NO RECOVERY	
13-14	2	0.0	moist to wet	FILL		SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	
14-15	2	0.0	moist to wet	FILL		SILT, some little coarse gravel, roots, (10YR 5/4) yellowish brown, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-W28A-14.5-15.0
		0.0	slightly moist	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist, no odor, no staining. 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: 611108.9375
Date Started Drilling: 6/25/2013 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.6875
Date Finished Drilling: 6/25/2013 10:05:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - W29A		

(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	1.7	0.0	dry	ASPHALT		ASPHALT	133-P3C-W29A-0.5-1.0
		0.0		FILL		fine to medium LEAN CLAY, some ash, cinders, coal, little coarse gravel, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor, no staining.	
2-3	1.5	0.0	dry	NR FILL		NO RECOVERY fine to medium SAND, with ash, some coal, cinders, little fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-W29A-2.5-3.0
				NR FILL		NO RECOVERY	
4-5	1.8	0.0	dry	FILL		ASH, with coal, cinders, some ceramics, little fine gravel, trace silt, fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	133-P3C-W29A-4.5-5.0
				NR FILL		NO RECOVERY ASH, with coal, cinders, some ceramics, little fine gravel, trace silt, fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
6-7	2	0.0	dry	FILL		ASH, with coal, cinders, some ceramics, little fine gravel, trace silt, fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	133-P3C-W29A-6.5-7.0
				NR		NO RECOVERY	
8-9	1.4	0.0	dry	FILL		ASH, with coal, cinders, some ceramics, little fine gravel, trace silt, fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	133-P3C-W29A-8.5-9.0
				NR		NO RECOVERY	
10-11	1.3	0.0	moist	FILL		SILT, some fine sand, little ash, cinders, coal, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3C-W29A-10.5-11.0
				NR		NO RECOVERY	
12-13	1	0.0	moist	FILL		fine silty SAND, little fine gravel, trace roots, (10YR 5/8) yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-W29A-12.5-13.0
				NR		NO RECOVERY	
14-15	2	0.0	moist	FILL		fine silty SAND, little fine gravel, trace roots, (10YR 5/8) yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-W29A-14.0-14.5
		0.0		MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	133-P3C-W29A-14.5-15.0 133-P3C-W29A-14.5-15.0X
16							

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: 611095.454
Date Started Drilling: 11/17/2014 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682547.027
Date Finished Drilling: 11/17/2014 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - W30A		

(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	dry	FILL		fine to medium SAND, some ash, trace gravel, trace coal, trace brick, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-W30A-0.5-1.0	
2							133-P3C-W30A-2.0-2.5	
3							133-P3C-W30A-4.0-4.5	
4								
5	4	0.0	dry	FILL		ASH, trace debris, trace glass, trace coal, (10YR 4/6) dark yellowish brown, loose, dry, no odor, no staining. ASH, trace gravel, trace debris, trace glass, trace coal, trace wood fragments, (10YR 4/6) dark yellowish brown, dry, no odor, no staining.	133-P3C-W30A-6.0-6.5	
6							133-P3C-W30A-8.0-8.5	
7								
8								
9		0.0	moist to wet	FILL NR		ASH, trace debris, trace gravel, trace glass, (10YR 2/1) black, moist to wet, slight petroleum odor, hydrocarbon staining. NO RECOVERY		
10	5	0.0	moist	FILL		ASH, trace debris, trace coal, trace glass, trace shell fragments, (10YR 3/1) very dark gray, loose, moist, slight petroleum odor, hydrocarbon staining.	133-P3C-W30A-10.0-10.5	
11							133-P3C-W30A-12.0-12.5	
12							133-P3C-W30A-14.0-14.5	
13								
14	5	0.0	moist	FILL		fine to medium silty SAND, trace glass, trace ash, (10YR 4/1) dark gray, low plasticity, soft to medium dense, moist, no odor, no staining.	133-P3C-W30A-15.5-16.0	
15				ML				133-P3C-W30A-16.0-16.5
16				OL				133-P3C-W30A-16.5-17.0
17			slightly moist					
18						UNDno, fine sandy SILT, trace shell fragments, (10YR 3/1) very dark gray, low plasticity, medium dense, moist, no odor, no staining. Soils consistent with UNDno. UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, medium plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.		
19								
20								

PPG - PPG_LOGS.GDT - 1/9/15 10:39

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: 611081.839
Date Started Drilling: 11/18/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682520.26
Date Finished Drilling: 11/18/2014 10:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - W31A		

(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	3	FILL		fine to medium SAND, some ash, trace glass fragents, trace fine gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	133-P3C-W31A-0.5-1.0		
2								133-P3C-W31A-2.0-2.5		
3								133-P3C-W31A-4.0-4.5		
4										
5	5	0.0	dry	3	FILL		fine to medium SAND, little ash, trace brick, (7.5YR 4/2) brown, loose, dry, no odor, no staining.			
6		0.0	wet to saturated	3	FILL			ASH, little ceramics, trace debris, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	133-P3C-W31A-6.0-6.5	
7									133-P3C-W31A-8.0-8.5	
8										
9										
10	5	0.0	wet	3	FILL		ASH, little fine to medium sand, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-W31A-10.0-10.5		
11									133-P3C-W31A-12.0-12.5	
12										
13										
14		0.0	moist	3	FILL		fine to medium silty SAND, trace fine gravel, trace roots, (7.5YR 2.5/3) very dark brown, loose, moist, no odor, no staining.	133-P3C-W31A-14.0-14.5		
15		0.0	moist	3	FILL			fine to medium silty SAND, little roots, trace ceramics, (7.5YR 4/2) brown, loose, moist, no odor, no staining.	133-P3C-W31A-15.5-16.0	
16	5	0.0	dry to sl	7	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/2) dark brown, medium stiff, dry to slightly moist, slight organic odor, no staining. Soils consistent with MM.	133-P3C-W31A-16.0-16.5		
17		0.0	moist	9	OL				UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/1) dark gray, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
18										
19										
20										

PPG - PPG LOGS.GDT - 1/8/15 15:31

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: 611068.387
Date Started Drilling: 11/18/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682493.339
Date Finished Drilling: 11/18/2014 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - W32A		

(Note bgs = below ground surface)


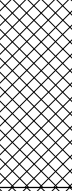
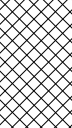
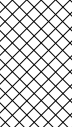
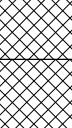


Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		CONCRETE	
1	5	0.0		3	FILL		ASH, trace gravel, trace brick, trace coal, trace glass, trace debris, (10YR 3/6) dark yellowish brown, loose, no odor, no staining.	133-P3C-W32A-0.5-1.0
2								133-P3C-W32A-2.0-2.5
3								
4		0.0	dry	3	FILL		fine to medium SAND, trace ash, trace gravel, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining.	133-P3C-W32A-4.0-4.5
5	5	0.0	dry	3	FILL		fine to medium SAND, trace gravel, trace ash, (10YR 5/8) yellowish brown, loose, dry, no odor, no staining.	
6		0.0	wet to saturated	3	FILL			ASH, trace coal, trace debris, trace metal, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.
7								
8								
9								
10	5	0.0	wet to saturated	3	FILL		ASH, trace gravel, trace debris, trace wood fragments, (10YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	133-P3C-W32A-10.0-10.5
11								
12								133-P3C-W32A-12.0-12.5
13								
14								133-P3C-W32A-14.0-14.5
15	5	0.0	wet	3	FILL		ASH, trace debris, trace coal, trace metal, trace wood fragments, (10YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-W32A-16.0-16.5
16		0.0	moist	3	FILL		silty SAND, trace gravel, trace organic fibers, trace ceramics, trace brick, (10YR 3/3) dark brown, low plasticity, medium dense, moist, no odor, no staining.	133-P3C-W32A-17.0-17.5
17		0.0	slightly moist	9	OL			UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.
18								
19								
20								

PPG - PPG LOGS.GDT - 1/8/15 15:31

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: 611054.856
Date Started Drilling: 3/5/2014 11:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682466.545
Date Finished Drilling: 3/5/2014 11:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: A. Grossman	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W33A		

(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	
2-4		0.0	moist to wet	FILL		fine to medium silty SAND, some fine gravel, trace glass, trace coarse gravel, (10YR 4/4) dark yellowish brown, medium dense, moist to wet, iron oxide staining.	
5-7	5	0.0	wet	FILL		ASH, some cinders, trace coarse gravel, (10YR 4/1) dark gray, medium dense, wet.	133-P3C-W33A-5.0-5.5
7-8							133-P3C-W33A-7.0-7.5
8-9							133-P3C-W33A-9.0-9.5
10-12	5	0.0	wet to saturated	FILL		ASH, some cinders, (10YR 2/2) very dark brown, medium dense, wet to saturated.	133-P3C-W33A-11.0-11.5
12-13		0.0	moist to wet	FILL		ASH, some cinders, little silt, trace wood, (10YR 3/1) very dark gray, medium dense, moist to wet.	133-P3C-W33A-13.0-13.5
13-14		0.0	wet	FILL		SILT, little fine gravel, trace coarse gravel, (10YR 5/6) yellowish brown, soft, wet.	133-P3C-W33A-14.5-15.0
15-17	5	0.0	moist to wet	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, low plasticity, soft, moist to wet, slight sulfur odor. Soil consistent with MM.	133-P3C-W33A-15.0-15.5
17-18							
18-19							
19-20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611041.271
Date Started Drilling: 3/5/2014 10:04:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682439.679
Date Finished Drilling: 3/5/2014 10:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: A. Grossman	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W34A		

(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 silty SAND, and cinders, little ash, little fine gravel, (10YR 5/8) yellowish brown, dense, dry.	
2	5						
3							
4							
5	5	0.0	moist	FILL		fine to medium silty SAND, and cinders, little ash, (10YR 4/1) dark gray, medium dense, moist.	
6		0.0	wet	FILL		fine to medium silty SAND, some cinders, (10YR 6/6) brownish yellow, medium dense, wet.	
7		0.0	wet	FILL		ASH, some cinders, little fine to medium sand, trace ceramics, (10YR 3/1) very dark gray, medium dense, wet.	133-P3C-W34A-7.0-7.5
8							133-P3C-W34A-9.0-9.5
9	5						
10							
11		0.0	wet	FILL		ASH, some cinders, some silt, little gravel, trace wood, (10YR 2/1) black, non plastic, medium dense, wet, slight chemical odor.	133-P3C-W34A-11.0-11.5
12	5						
13							133-P3C-W34A-13.0-13.5
14	5						
15		0.0	moist	FILL		SILT, trace coarse gravel, trace ceramics, (10YR 3/1) very dark gray, low plasticity, soft, moist.	133-P3C-W34A-15.0-15.5
16							133-P3C-W34A-17.0-17.5
17	5						
18		0.0	dry to moist	PT		PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, 10YR5/2 grayish brown, low plasticity, soft, dry to moist. Soil consistent with MM.	133-P3C-W34A-17.5-18.0
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611027.942
Date Started Drilling: 3/26/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682412.849
Date Finished Drilling: 3/26/2014 11:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W35A		

(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	0.0	damp to moist	FILL		fine to coarse silty SAND, brown-gray, some fine to medium gravel, damp to moist.	
2		0.0	damp	FILL		fine silty SAND, reddish-brown, trace medium gravel, 10% COPR nodules, loose, damp.	
3		0.0	damp to moist	FILL		fine gravelly ASH, gray, some cinders and trace slag, some fine gravel and mixed debris, damp to moist, no noticeable odor.	
4		0.0	moist	FILL		fine gravelly ASH, gray-brown, some concrete fragments, mixed debris, moist, no noticeable odor.	
5	4						
6							
7		0.0	wet	FILL		GGM, olive green, some fine gravelly sand, some silt, loose-slightly loose, wet.	
8		0.0	wet	FILL		fine silty SAND, brown-gray, some fine gravel, soft, loose, wet.	133-P3C-W35A-7.5-8.0
9	4	20.0	moist	FILL		fine silty SAND, brown-dark gray, trace fine gravel, loose, moist.	
10		22.0		FILL		fine to coarse gravelly SAND, dark gray, mixed fill debris, hydrocarbon odor and visible dark staining.	133-P3C-W35A-9.5-10.0
11							
12		1.0	wet	FILL		fine to medium gravelly SAND, dark gray, coarse sands, some ash and cinders, loose, wet.	133-P3C-W35A-11.5-12.0
13	4						
14							133-P3C-W35A-13.5-14.0
15							
16		0.0	wet	FILL		fine to coarse sandy CINDERS, dark gray, some medium sand, some ash, loose, wet.	133-P3C-W35A-15.5-16.0
17	4	0.0	moist	FILL		fine organic SILT, dark gray, firm, pliable, moist, 10% organic fibers and silts.	133-P3C-W35A-17.0-17.5
18		0.0	damp	PT		fine silty PEAT (degraded vegetated material), brown, 80% organic fibers, 20% organic silts, firm, hard, damp. Soils consistent with MM.	133-P3C-W35A-17.5-18.0
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611014.436
Date Started Drilling: 3/25/2014 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682386.23
Date Finished Drilling: 3/25/2014 11:15:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W36A		

(Note bgs = below ground surface)

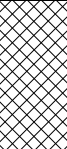












Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	4	0.0		FILL		CONCRETE		
		0.0	dry	FILL		fine to medium SAND, little cinders, little brick fragments, (5YR 4/4) reddish brown, loose, dry, no odor, no staining.	133-P3C-W36A-0.5-1.0	
2	4						133-P3C-W36A-2.5-3.0	
3								
4		0.0	dry to moist	FILL		fine to medium SAND, some cinders, little fine to coarse gravel, (7.5YR 4/1) dark gray, loose, dry to moist, moderate hydrocarbon odor, no staining.	133-P3C-W36A-4.5-5.0	
5	4						133-P3C-W36A-6.5-7.0	
6								
7								
8		350.0	moist to wet	FILL		CINDERS, some fine to coarse gravel, little fine to medium sand, trace ceramics, (5Y 3/1) very dark gray, loose, moist to wet, strong hydrocarbon odor, hydrocarbon staining.	133-P3C-W36A-8.5-9.0	
9	4						133-P3C-W36A-10.5-11.0	
10								
11								
12		80.0	moist	FILL		fine to medium SAND, some cinders, little fine to coarse gravel, trace ceramics, (7.5YR 3/1) very dark gray, soft, moist, strong hydrocarbon odor, no staining.	133-P3C-W36A-12.5-13.0	
13	4	8.4	moist	FILL		CINDERS, some medium sand, little fine to coarse gravel, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-W36A-14.5-15.0	
14								
15								
16		0.0	dry	OL			133-P3C-W36A-16.0-16.5	
17	4	0.0	dry to moist	PT			UNDorg organic SILT, little roots, (7.5YR 2.5/2) very dark brown, medium plasticity, soft, dry to moist, slight organic odor. Soils consistent with UNDorg.	133-P3C-W36A-16.5-17.0
18			dry			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, low plasticity, stiff, dry, strong organic odor. Soils consistent with MM.		
19								
20								

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611003.17
Date Started Drilling: 4/22/2014 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682357.687
Date Finished Drilling: 4/22/2014 10:40:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W37AR		

(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		fine to medium SAND, some fine to coarse gravel, little asphalt, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	133-P3C-W37AR-1.0-1.5
2		0.0	dry	CONCRETE		crushed CONCRETE, (9.5/2.5Y_1) white, very dense, dry, no odor, no staining.	133-P3C-W37AR-3.0-3.5
3	5	0.0	dry	FILL		CINDERS, and ash, with fine to medium silty sand, little coal, glass, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining.	133-P3C-W37AR-3.0-3.5
4		0.0	dry	FILL		CINDERS, and ash, (10YR 3/1) very dark gray, medium dense, moist, slight hydrocarbon odor, no staining.	133-P3C-W37AR-5.0-5.5
5	5	8.1	moist	FILL		fine to medium silty SAND, (10R 4/2) weak red, medium dense, moist, slight hydrocarbon odor, no staining.	133-P3C-W37AR-5.0-5.5
6		20	moist	FILL		fine to medium silty SAND, with ash, wood debris, some fine to medium gravel, trace brick, (10YR 3/1) very dark gray, medium dense, wet, strong hydrocarbon odor, sheen.	133-P3C-W37AR-7.0-7.5
7		185	wet	FILL		fine to medium silty SAND, with ash, little wood debris, (10YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-W37AR-9.0-9.5
8	5	0.0	saturated	FILL		ASH, some fine to medium silty sand, (10YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-W37AR-11.0-11.5
9		0.0	wet	FILL		fine to medium silty SAND, some fine to medium gravel, trace debris, glass, (2.5YR 3/2) dusky red, medium dense, moist, no odor, no staining.	133-P3C-W37AR-13.0-13.5
10	5	0.0	moist	FILL		SILT, (7.5YR 6/3) light brown, low plasticity, soft, slightly moist, no odor, no staining.	133-P3C-W37AR-15.0-15.5
11		0.0	slightly moist	FILL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-W37AR-15.6-16.1
12		0.0	moist dry	PT		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-W37AR-16.1-16.6
13		0.0	moist	OL			
14							
15							
16							
17							
18							
19							
20							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND 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: 611135.772
Date Started Drilling: 3/10/2014 12:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682560.151
Date Finished Drilling: 3/10/2014 1:15:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - X29A		





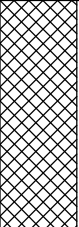
(Note: bgs = below ground surface)

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	dry	FILL		medium SAND, some ash, some cinders, little coal, little brick, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining	133-P3C-X29A-1.5-2.0
3		0.0	dry	FILL		fine to medium silty SAND, some cinders, some ash, little coal, trace glass fragments, (7.5YR 4/2) brown, medium dense to loose, dry, no odor, no staining.	133-P3C-X29A-3.5-4.0
4	5	0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little ceramics, trace coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose to medium dense, dry, no odor, no staining.	133-P3C-X29A-5.5-6.0
5							133-P3C-X29A-7.5-8.0
6							133-P3C-X29A-11.5-12.0
7							
8	5	0.0	moist	FILL		fine to coarse SAND, some ash, some cinders, trace wood fragments, (7.5YR 3/3) dark brown, loose, moist, no odor, no staining.	
9							
10	5	0.0	dry	FILL		fine silty SAND, little trace ash, (7.5YR 4/3) brown, low plasticity, dry, no odor, no staining.	133-P3C-X29A-13.5-14.0
11							
12							
13	5	0.0	moist	SM		fine silty SAND, (7.5YR 4/3) brown, low plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno.	133-P3C-X29A-15.5-16.0
14							
15							
16	5	0.0	moist	PT		PEAT, 100% organic silt, 10YR/2 dark brown, low plasticity, soft, moist. Soils consistent with MM.	133-P3C-X29A-17.5-18.0
17							
18							
19							
20							

PPG - PPG_LOGS.GDT - 6/24/14 16:14

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: Direct Push	Coordinates (NJSPNAD83) x: 611135.122
Date Started Drilling: 6/4/2015 5:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682560.232
Date Finished Drilling: 6/4/2015 5:50:00 PM	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: P3C-X29A		Surface Elevation: 13.176 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0	dry	CONCRETE		CONCRETE.	
1	3.7	0.0	dry	FILL		fine to medium SAND, some coal fragments, trace ash, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	133-P3C-X29A-ME-0.8-1.3
2		43.0	dry	FILL		Coal ASH, some fine sand, little glass, (7.5YR 2.5/1) black, loose, dry, slight petroleum odor, no staining.	133-P3C-X29A-ME-2.3-2.8
3		0.0	dry	FILL		fine SAND, trace ash, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining.	133-P3C-X29A-ME-2.8-3.3
4		0.0	dry	FILL NR		Coal ASH, little glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. NO RECOVERY.	
5							
6	3.5	0.0	moist to wet	FILL		ASH, some coal fragments, trace glass and ceramics, (10YR 5/1) gray, loose, moist to wet, no odor, purple residue and staining from 6.0-7.0' bgs, DTW @ 6.0' bgs	133-P3C-X29A-ME-5.0-5.5
7							133-P3C-X29A-ME-6.0-6.5
8							133-P3C-X29A-ME-8.0-8.5
9				NR		NO RECOVERY.	
10							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611122.248
Date Started Drilling: 11/17/2014 10:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682533.449
Date Finished Drilling: 11/17/2014 12:15:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - X30A		

(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	dry to sl moist	FILL		fine to medium silty SAND, little ash, little fine gravel, trace coal, trace brick, (7.5YR 3/3) dark brown, loose, dry to slightly moist, slight petroleum odor, no staining.	133-P3C-X30A-0.5-1.0	
2							133-P3C-X30A-2.0-2.5	
3		0.0	dry to sl moist	FILL			ASH, little ceramics, trace debris, trace fine to medium sand, (7.5YR 2.5/1) black, loose, dry to slightly moist, no odor, no staining.	
4		0.0	slightly moist	FILL				133-P3C-X30A-4.0-4.5
5		4	0.0	moist			FILL	
6					133-P3C-X30A-6.0-6.5			
7								
8								
9				NR		NO RECOVERY		
10	5	0.0	moist to wet	FILL		ASH, little debris, trace coal, (7.5YR 2.5/1) black, loose, moist to wet, moderate petroleum odor, hydrocarbon staining.	133-P3C-X30A-10.0-10.5	
11								
12								133-P3C-X30A-12.0-12.5
13								
14		0.0	moist	FILL		fine silty SAND, trace ash, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, slight petroleum odor, no staining.	133-P3C-X30A-14.0-14.5	
15								
16	5	0.0	moist	FILL		fine to medium silty SAND, trace ceramics, trace roots, (7.5YR 3/2) dark brown, loose, moist, no odor, no staining.	133-P3C-X30A-16.0-16.5	
17		0.0	moist	PT				133-P3C-X30A-16.5-17.0
18		0.0	slightly moist	OL				UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.
19								
20								

PPG - PPG_LOGS.GDT - 1/9/15 10:39

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: 611108.88
Date Started Drilling: 3/24/2014 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.699
Date Finished Drilling: 3/24/2014 10:45:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - X31A		

(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, some cinders, little coarse gravel, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.	133-P3C-X31A-0.5-1.0					
2	5	5.7	dry	FILL		CINDERS, some fine to medium sand, little ash, coarse gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-X31A-2.5-3.0					
3		130.0	dry	FILL		ASH, with cinders, some fine to medium sand, (7.5YR 4/1) dark gray, loose, dry, strong petroleum odor, no staining.	133-P3C-X31A-4.5-5.0					
4	5	178.5	wet	FILL		ASH, with cinders, some fine to coarse sand, little coarse gravel, trace silt, (7.5YR 5/1) gray, loose, wet, strong petroleum odor, no staining.	133-P3C-X31A-4.5-5.0					
5							133-P3C-X31A-6.5-7.0					
6							133-P3C-X31A-8.5-9.0					
7	5	4.1	saturated	FILL		CINDERS, with ash, some coarse gravel, little fine to medium silty sand, trace wood debris, glass fragments, (5YR 2.5/1) black, loose, saturated, slight petroleum odor, hydrocarbon staining.	133-P3C-X31A-10.5-11.0					
8							0.0	moist to wet moist	FILL		SILT, little ash, cinders, trace gravel, (10YR 4/2) dark grayish brown, low plasticity, very soft, moist to wet, no odor, no staining. SILT, (10YR 5/2) grayish brown, low plasticity, very soft, moist, no odor, no staining.	133-P3C-X31A-12.5-13.0
9												133-P3C-X31A-14.5-15.0
10							0.0	moist	FILL		fine to medium SAND, little coarse gravel, trace silt, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	133-P3C-X31A-15.5-16.0
11	5	0.0	dry to moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry to moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-X31A-16.0-16.5					
12							0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 5/1) gray, low plasticity, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
13												0.0
14												

PPG - PPG_LOGS.GDT - 6/24/14 16:14

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: 611095.133
Date Started Drilling: 3/10/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682479.99
Date Finished Drilling: 3/10/2014 11:25:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - X32A		

(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
1-3	5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little coal, trace brick, (5YR 4/3) reddish brown, dense, dry, no odor, no staining.	133-P3C-X32A-1.0-1.5
		0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little ceramics, trace wood fragments, (10YR 5/1) gray, medium dense, dry, no odor, no staining.	133-P3C-X32A-3.0-3.5
5-9	5	0.0	wet	FILL		fine to medium SAND, some ash, some cinders, little glass fragments, trace ceramics, (10YR 4/1) dark gray, loose to medium dense, wet, no odor, no staining.	133-P3C-X32A-5.0-5.5
							133-P3C-X32A-7.0-7.5
							133-P3C-X32A-9.0-9.5
11-13	5	0.0	wet	FILL		fine to medium SAND, some cinders, some ash, trace glass fragments, trace ceramics, (7.5YR 2.5/3) very dark brown, medium dense to loose, wet, slight organic odor.	133-P3C-X32A-11.0-11.5
		0.0	dry	OL		fine silty SAND, little roots, (7.5YR 3/2) dark brown, low plasticity, soft to medium dense, dry, no odor, no staining. Soils consistent with UNDno.	133-P3C-X32A-13.0-13.5
15-18	5	0.0	moist	SM		fine silty SAND, little roots, (7.5YR 3/3) dark brown, low plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno. PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers. Soils consistent with MM.	133-P3C-X32A-15.0-15.5
		0.0		SM			133-P3C-X32A-15.5-16.0
		0.0		OL		fine silty SAND, little roots, (2.5Y 4/2) dark grayish brown. Soils consistent with UNDorg.	
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611081.827
Date Started Drilling: 3/5/2014 11:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682452.937
Date Finished Drilling: 3/5/2014 12:50:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: A. Grossman/A. Bogucki	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - X33A		

(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		fine to medium silty SAND, some cinders, little brick, (10YR 3/2) very dark grayish brown, dense, slightly moist.	
3	5	0.0	moist to wet	FILL		ASH, some wood fragments, little silt, (10YR 3/1) very dark gray, medium dense, moist to wet.	133-P3C-X33A-5.0-5.5
6							133-P3C-X33A-7.0-7.5
9							133-P3C-X33A-9.0-9.5
10	5	0.0	wet	FILL		CINDERS, some ash, some silt, little ceramics, (10YR 2/1) black, non plastic, dense, wet.	133-P3C-X33A-11.0-11.5
11							133-P3C-X33A-13.0-13.5
14							133-P3C-X33A-14.5-15.0
15	5	2.7	moist	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soil consistent with MM.	133-P3C-X33A-15.0-15.5
16							
17							
18							
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611068.1875
Date Started Drilling: 5/21/2013 10:22:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682426.25
Date Finished Drilling: 5/21/2013 11:45:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - X34A		













(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	1.7	0.0		ASPHALT		ASPHALT	
		0.0	slightly moist	FILL		fine to medium SAND, little fine to coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL		fine silty SAND, little cinders, coal, trace brick, (5YR 4/3) reddish brown, non plastic, loose to stiff, slightly moist, no odor, no staining.	
2-3	1.5	0.0	slightly moist	NR		NO RECOVERY	
				FILL		fine silty SAND, little cinders, coal, trace coarse gravel, wood fragments, (7.5YR 4/3) brown, non plastic, loose to stiff, slightly moist, no odor, no staining.	
4		0.0	slightly moist	NR		NO RECOVERY	
5	2			FILL		fine silty SAND, some cinders, coal, little fine gravel, wood fragments, (7.5YR 3/4) dark brown, non plastic, loose to soft, slightly moist, no odor, no staining.	133-P3C-X34A-5.0-5.5
6	1.5	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, wood fragments, little medium gravel, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
7						NO RECOVERY	133-P3C-X34A-7.0-7.5
8	1.2	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, wood fragments, little medium gravel, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
9						NO RECOVERY	133-P3C-X34A-8.5-9.0
10	1	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, wood fragments, little medium gravel, ceramics, glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
11						NO RECOVERY	133-P3C-X34A-10.5-11.0
12	1	0.0	moist	FILL		ASH, with fine sand, some cinders, coal, wood fragments, little medium gravel, ceramics, glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
13						NO RECOVERY	133-P3C-X34A-12.5-13.0
14	2	0.0	moist	FILL		SILT, little clay, little roots, (10YR 5/4) yellowish brown, medium plasticity, soft, moist, no odor, no staining.	
15						NO RECOVERY	133-P3C-X34A-14.2-14.7
15	2	2.4	dry	PT		SILT, little clay, little roots, trace fine gravel, (10YR 5/4) yellowish brown, medium plasticity, soft, moist, no odor, no staining.	133-P3C-X34A-14.7-15.2
		1.0	moist	MH		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM. UNDno SILT, with roots, little organics, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	
16							

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: 611054.6875
Date Started Drilling: 5/20/2013 2:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682399.5
Date Finished Drilling: 5/21/2013 10:20:00 AM	Core Size: 3 in	Boring Total Depth: 17 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - X35A		




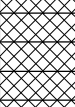
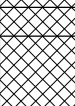
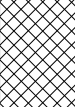
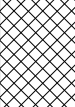



(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.6	0.0		ASPHALT		ASPHALT	
		0.0		FILL		fine to medium silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft.	
2				NR		NO RECOVERY	
3	1.7	0.0		FILL		fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft.	
		0.0		FILL		fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish brown, non plastic, loose to soft.	
4			slightly moist	NR		NO RECOVERY	
5	1.4	0.0		FILL		ASH, some fine sand, some wood fragments, coal, little glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining.	133-P3C-X35A-4.5-5.0
				NR		NO RECOVERY	
6			moist	FILL		ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (10YR 3/2) very dark grayish brown, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-6.5-7.0
7	1.3			NR		NO RECOVERY	133-P3C-X35A-6.5-7.0X
8			moist	FILL		ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-8.5-9.0
9	1			NR		NO RECOVERY	
10			moist	FILL		ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-10.5-11.0
11	1.1			NR		NO RECOVERY	
12			moist	FILL		ASH, some fine sand fine to medium sand some wood fragments, coal, cinders, little ceramics coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic loose, moist no odor no staining	133-P3C-X35A-12.5-13.0
13	1.3			NR		NO RECOVERY	
14			slightly moist	FILL		ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	133-P3C-X35A-14.5-15.0
15	2	0.0	moist	FILL		SILT, some roots, little fine sand, (7.5YR 3/2) dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3C-X35A-15.5-16.0
16	1	1.2	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, medium plasticity soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-X35A-16.0-16.5
17		1.2	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

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	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611243.362
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682399.904
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C-X35A		

(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	4.5	0.0	dry	2	FILL		ASPHALT, (10YR 5/1) gray, dry, no odor, no staining.	
2		0.0	dry	3	FILL		fine to medium SAND, and asphalt, (10YR 2/1) black, loose, dry, no odor, no staining.	133-P3C-X35A-ME-1.0-1.5
		0.0	dry	2	FILL		ASPHALT, some fine to medium sand, little coal fragments, (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.	133-P3C-X35A-ME-1.5-2.0
		0.0	dry	1	FILL		CONCRETE, (9.5/2.5Y /1) white, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5
		0.0	dry	3	FILL		fine to medium SAND, some fine to medium gravel, little ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5X
		0.0	moist	3	FILL		ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
		0.0	moist	3	FILL		Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist, no odor, no staining.	133-P3C-X35A-ME-5.0-5.5
7	4						NO RECOVERY.	
8							Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water table at 6.5 ft bgs.	133-P3C-X35A-ME-6.5-7.0
9							NO RECOVERY.	133-P3C-X35A-ME-8.5-9.0
10				3	NR			

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: 611264.0625
Date Started Drilling: 6/27/2013 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682723.25
Date Finished Drilling: 6/27/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y22A		

(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	1.4	0.0		1	ASPHALT		ASPHALT	
		0.0	dry	3	FILL		fine to medium SAND, with ash, some cinders, little wood fragments, trace coal, fine to medium gravel, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-Y22A-0.5-1.0
2	1.3	0.0	dry	3	FILL		NO RECOVERY	
				NR	NR		fine to medium SAND, with ash, some cinders, little wood fragments, trace coal, fine to medium gravel, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-Y22A-2.5-3.0
4	1.6	0.0	dry	3	FILL		NO RECOVERY	
		0.0	moist	6	FILL		fine to medium SAND, with ash, some cinders, little wood fragments, trace coal, fine to medium gravel, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	133-P3C-Y22A-4.5-5.0
6	2	0.0	moist	6	FILL		ASH, with fine silty sand, some cinders, coal, ceramics, little wood fragments, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	
		0.0	moist	5	FILL		NO RECOVERY	133-P3C-Y22A-6.5-7.0
7	2	0.0	slightly moist	5	FILL		ASH, with fine silty sand, some cinders, coal, ceramics, little wood fragments, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	
		0.0	slightly moist	5	FILL		ASH, with fine silty sand, some cinders, coal, ceramics, little wood fragments, coarse gravel, GGM, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining, slight green staining.	133-P3C-Y22A-8.5-9.0
10	2	0.0	slightly moist	5	FILL		GGM, some fine sand, little medium gravel, calcium leachate, (5GY 5/2) grayish green, non plastic, soft to stiff, slightly moist, no odor, green staining.	
		0.0	moist	3	FILL		GGM, with cinders, some COPR, little gravel, trace calcium leachate, (5GY 5/2) grayish green, non plastic, soft to stiff, slightly moist, no odor, green staining.	133-P3C-Y22A-10.5-11.0
12	1.8	0.0	moist	3	FILL		GGM, some COPR, little gravel, (5GY 5/2) grayish green, non plastic, soft to stiff, slightly moist, no odor, green staining.	
							WOOD FRAGMENTS, with silt, some roots, (7.5YR 2.5/3) very dark brown, non plastic, loose to dense, moist, no odor, no staining.	133-P3C-Y22A-12.5-13.0
14	2	0.0	moist	NR	NR		fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-Y22A-14.1-14.6
		2.3	dry	7	PT		fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-Y22A-14.1-14.6X
15	2	1.2	moist	9	MH		fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-Y22A-14.6-15.1
							NO RECOVERY	
16							fine silty SAND, trace fine gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, moist, no odor, no staining.	
							PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
						UNDno SILT, 80% inorganic silt, 20% organic fibers, low plasticity, soft to stiff, 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: 611238.75
Date Started Drilling: 7/17/2013 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682705.4375
Date Finished Drilling: 7/17/2013 9:35:00 AM	Core Size: 3 in	Boring Total Depth: 17 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y23A		

(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, (2.5Y 3/1) very dark gray, non plastic, very loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium GRAVEL, trace coal, trace fine to medium sand, (7.5R 2.5/2) very dusky red, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		ASH, with cinders, trace coal, trace wood fragments, (2.5YR 3/2) dusky red (5Y 7/2) light gray, non plastic, loose, dry, no odor, no staining.	
2-3	1.6	0.0	dry	FILL		ASH, with cinders, trace coal, trace wood fragments, trace ceramics, (5Y 7/2) light gray, non plastic, loose, dry, no odor, no staining.	
				NR		NO RECOVERY	
4-5	2	0.0	slightly moist	FILL		CINDERS, trace fine to medium sand, trace ash, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL		GGM, trace white precipitate, (5Y 3/2) dark olive gray, non plastic, slightly moist, no odor, green staining.	
6-7	2	0.0	slightly moist	FILL		GGM, some cinders, trace white precipitate, (5Y 3/2) dark olive gray, non plastic, slightly moist, no odor, green staining.	
				FILL		GGM, some cinders, trace white precipitate, (5Y 3/2) dark olive gray, non plastic, slightly moist, no odor, green staining.	
8-9	2	0.0	slightly moist	FILL		GGM, some cinders, trace white precipitate, (5Y 3/2) dark olive gray, non plastic, slightly moist, no odor, green staining.	
				FILL		GGM, some cinders, trace ash, trace fine to medium sand, (10Y 5/2) grayish olive, non plastic, soft to loose, moist, no odor, green staining.	133-P3C-Y23A-10.8-11.3
10-11	2	0.0	moist	FILL		SILT, trace peat, (5R 6/2) pale red, (5YR 4/3) reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL		SILT, trace fine to medium sand, trace peat, (2.5YR 3/4) dark reddish brown, low plasticity, soft to stiff, slightly moist, no odor, no staining.	133-P3C-Y23A-12.8-13.3
12-13	2	0.0	slightly moist	FILL		fine to medium silty SAND, little fine to medium gravel, (7.5YR 4/2) brown, low plasticity, soft to loose, saturated, no odor, no staining.	
				FILL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-Y23A-15.0-15.5
14-15	2	0.0	saturated	FILL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Y23A-15.0-15.5X
				PT		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Y23A-15.5-16.0
16-17	1	2.1	slightly moist	OL			
		1.3	moist	OL			
17		1.2	moist	OL			

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611215.518
Date Started Drilling: 12/1/2014 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682652.882
Date Finished Drilling: 12/1/2014 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Y25AR		

(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	5	0.0		1	CONCRETE		CONCRETE	
1-2	5	0.0	dry	3	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	133-P3C-Y25AR-0.5-1.0
2-3	5							133-P3C-Y25AR-2.5-3.0
3-4	5							
4-5	5							133-P3C-Y25AR-4.5-5.0
5-6	5	0.0	moist	3	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, moist, no odor, no staining.	
6-7	5	0.0	moist	3	FILL		medium to coarse SAND, some ash, trace gravel, (10YR 4/4) dark yellowish brown, loose to medium dense, moist, no odor, no staining.	133-P3C-Y25AR-6.5-7.0
7-8	5	0.0	saturated	5	FILL		GGM, (10Y 5/2) grayish olive, soft, saturated, no odor, green staining.	
8-9	5							
9-10	5							
10-11	5	0.0	saturated	5	FILL		GGM, (10Y 5/2) grayish olive, soft, saturated, no odor, green staining.	
11-12	5							
12-13	5							
13-14	5							
14-15	5							
15-16	5	3.1	saturated	3	FILL		fine to medium silty SAND, some ash, (10YR 3/3) dark brown, soft to medium dense, saturated, slight petroleum odor, petroleum staining.	133-P3C-Y25AR-15.0-15.5
16-17	5	0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-Y25AR-15.5-16.0
17-18	5	0.0	slightly moist	9	OL		SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
18-19	5							
19-20	5							

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611189.576
Date Started Drilling: 11/19/2014	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682600.372
Date Finished Drilling: 6/22/2015	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP,SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Y27A		

(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	dry	FILL		ASH,trace coal,trace gravel,trace debris,(10YR 4/4) dark yellowish brown,loose,dry,no odor,no staining.	133-P3C-Y27A-0.5-1.0
3							133-P3C-Y27A-2.0-2.5
4							133-P3C-Y27A-4.0-4.5
5	5	0.0	wet to saturated	FILL		ASH,trace gravel,trace coal,trace glass,trace brick,trace debris,(10YR 3/1)very dark gray,loose,wet to saturated,no odor,no staining.	
6							133-P3C-Y27A-6.0-6.5
7							133-P3C-Y27A-8.0-8.5
8							133-P3C-Y27A-10.0-10.5
9	5	0.0	moist	FILL		ASH,trace gravel,trace coal,trace debris,(10YR 3/1) very dark gray,loose,moist,no odor,no staining.	
10							133-P3C-Y27A-12.0-12.5
11							133-P3C-Y27A-14.0-14.5
12							133-P3C-Y27A-15.0-15.5
13	5	0.0	slightly moist	FILL		fine to medium silty SAND,trace gravel,trace ash,trace debris,(10YR 3/6) dark yellowish brown,low plasticity,medium dense,slightly moist,no odor,no staining. PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers,(10YR 3/3) dark brown,low plasticity,medium dense,slightly moist,moderate organic odor, no staining. Soils consistent with MM. UNDorg SILT, 80% organic silt, 20% organic fibers,(10YR 4/1) dark gray,medium plasticity,medium dense,slightly moist,moderate organic odor,no staining. Soils consistent with UNDorg.	133-P3C-Y27A-15.5-16.0
14		0.0	slightly moist	PT			133-P3C-Y27A-16.0-16.5
15		0.0	slightly moist	OL			133-P3C-Y27A-16.5-17.0
16							133-P3C-Y27A-17.0-17.5
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 7/9/15 15:40

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: 611175.909
Date Started Drilling: 3/17/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.577
Date Finished Drilling: 3/17/2014 11:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Y28A		

(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 3 4 5	5	0.0		CONCRETE		CONCRETE		
		0.0	slightly moist	FILL		fine SAND, some crushed concrete, (10YR 7/8) yellow, loose, slightly moist, no odor, no staining.	133-P3C-Y28A-0.5-1.0	
								133-P3C-Y28A-2.0-2.5
		0.0	slightly moist	FILL		fine to medium SAND, some ash, little fine gravel, (7.5YR 3/2) dark brown, low plasticity, hard, slightly moist, no odor, no staining.	133-P3C-Y28A-4.0-4.5	
		0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.		
6 7 8 9 10	5	0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Y28A-6.0-6.5	
							133-P3C-Y28A-8.0-8.5	
11 12 13 14	5	0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Y28A-10.0-10.5	
							133-P3C-Y28A-12.0-12.5	
							133-P3C-Y28A-14.0-14.5	
15 16 17	3	0.0	moist	FILL		ASH, little cinders, coal, little wood fragments, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Y28A-15.0-15.5	
		0.0	moist	PT		PEAT, 100% organic fibers, 10YR/2 very dark brown, low plasticity, soft, moist. Soils consistent with MM.	133-P3C-Y28A-15.5-16.0	
				NR		NO RECOVERY		
18 19 20								

PPG - PPG_LOGS.GDT - 6/24/14 16:14

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: Direct Push	Coordinates (NJSPNAD83) x: 611176.259
Date Started Drilling: 6/3/2015 3:35:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.815
Date Finished Drilling: 6/3/2015 3:50:00 PM	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: P3C-Y28A		Surface Elevation: 12.835 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0	3.2	0.0	dry	ASPHALT		ASPHALT.	
1		0.0	moist	FILL		fine to medium SAND, (10YR 4/3) brown, medium dense, moist, no odor, no staining.	
2				CONCRETE		CONCRETE.	
3		0.0	dry	FILL		COAL ASH, and cinders, trace wood debris, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-Y28A-ME-2.5-3.0
4				NR		NO RECOVERY.	
5	2	0.0	moist to wet	FILL		Incinerator ASH, trace wood debris, glass, and metal, (10YR 4/1) dark gray, moist to wet, no odor, no staining, DTW @ 6.5' bgs.	133-P3C-Y28A-ME-5.0-5.5
6							133-P3C-Y28A-ME-6.0-6.5
7		0.0	wet	FILL		ASH, little wood debris, trace metal, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	133-P3C-Y28A-ME-6.5-7.0
8				NR		NO RECOVERY.	
9							
10							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611162.518
Date Started Drilling: 3/17/2014 11:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682546.648
Date Finished Drilling: 3/17/2014 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Y29A		

(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	4	0.0		CONCRETE		CONCRETE	133-P3C-Y29A-1.0-1.5
		0.0	moist	FILL		fine to medium SAND, (10YR 7/8) yellow, loose, moist, no odor, no staining.	
		0.0	dry	FILL		crushed CONCRETE, (9.5/2.5Y_1) white, hard, dry, no odor, no staining.	
		0.0	slightly moist	FILL			
4-5				NR		NO RECOVERY	
5-10	5	0.0	moist	FILL		ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-Y29A-5.0-5.5
							133-P3C-Y29A-7.0-7.5
							133-P3C-Y29A-9.0-9.5
10-14	3.5	0.0	moist	FILL		ASH, some cinders, little wood fragments, little silt, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	133-P3C-Y29A-11.0-11.5
		0.0		FILL		sandy SILT, trace wood fragments, trace roots, (7.5YR 3/2) dark brown, (10YR 5/1) gray, non plastic, soft.	133-P3C-Y29A-13.0-13.5
				NR		NO RECOVERY	
15-16	5	0.0	moist	FILL		fine silty SAND, trace roots, (7.5YR 4/2) brown, dense, moist, no odor, no staining.	133-P3C-Y29A-15.0-15.5
		0.0		OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff. Soils consistent with UNDorg.	133-P3C-Y29A-15.5-16.0
16-20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: Direct Push	Coordinates (NJSPNAD83) x: 611162.516
Date Started Drilling: 6/3/2015 4:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682547.034
Date Finished Drilling: 6/3/2015 4:40:00 PM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.7
Physical Location: P3C-Y29A		Surface Elevation: 12.741 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-2	2.5	0.0	dry	CONCRETE		CONCRETE.	133-P3C-Y29A-ME-2.0-2.5	
		0.0	dry to moist	FILL		fine to medium SAND, (10YR 4/3) brown, dry to moist, no odor, no staining.		
			dry	CONCRETE		CONCRETE.		
		0.0	dry	FILL		Incinerator ASH, trace brick, (10YR 5/1) gray, loose, dry, no odor, no staining.		
3				NR		NO RECOVERY.		
5-8	3	0.0	dry	FILL		ASH, trace to little coal fragments, (10YR 5/1) gray, loose, dry, no odor, no staining, iron oxidation staining from 5.2-5.5' bgs.	133-P3C-Y29A-ME-5.0-5.5	
		0.0	dry to wet	FILL		ASH, some cinders, trace glass, (10YR 3/1) very dark gray, loose, dry to wet, no odor, no staining, DTW @ 6.7' bgs.	133-P3C-Y29A-ME-6.0-6.5	
								133-P3C-Y29A-ME-6.7-7.2
					NR		NO RECOVERY.	
10-14	4	0.0	saturated	FILL		ASH, (10YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-Y29A-ME-10.0-10.5	
								133-P3C-Y29A-ME-13.3-13.8
		0.0	wet	FILL NR	 	SILT, little ash, little to trace organic fibers, (7.5YR 3/2) dark brown, loose, wet, no odor, no staining. NO RECOVERY.		
15								

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611148.834
Date Started Drilling: 3/10/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682519.941
Date Finished Drilling: 3/10/2014 9:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Y30A		

(Note: bgs = below ground surface)

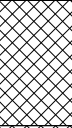
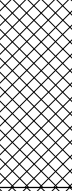
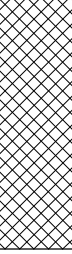
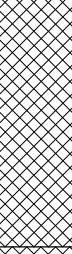
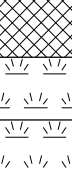



Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0.0 - 1.0		0.0		CONCRETE		CONCRETE	
1.0 - 2.0	5	0.0	dry	FILL		fine to medium SAND, some ash, little cinders, trace coal, (10R 3/6) dark red, dense, dry, no odor, no staining.	133-P3C-Y30A-1.0-1.5
2.0 - 3.0		0.0	dry	FILL		fine to medium silty SAND, some ash, trace brick, (7.5R 3/6) dark red, medium dense, dry, no odor, no staining.	
3.0 - 4.0		0.0	dry	FILL		fine to medium SAND, some ash, some cinders, little coarse gravel, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-Y30A-3.0-3.5
4.0 - 5.0		18.0	moist	FILL		medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, dry, slight petroleum odor, no staining.	
5.0 - 6.0		0.0	moist	FILL		medium SAND, some ash, some cinders, little silt, (5YR 4/1) dark gray, medium dense to loose, moist, slight petroleum odor, no staining.	133-P3C-Y30A-5.0-5.5
6.0 - 7.0	5	30.0	wet	FILL		fine to medium SAND, some cinders, some ash, some coarse gravel, little coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate petroleum odor, no staining.	133-P3C-Y30A-7.0-7.5
7.0 - 8.0							133-P3C-Y30A-9.0-9.5
8.0 - 9.0							
9.0 - 10.0							
10.0 - 11.0		7.0	wet	FILL		fine to medium SAND, some ash, some cinders, trace ceramics, (7.5YR 4/1) dark gray, medium dense to loose, wet, moderate petroleum odor, no staining.	133-P3C-Y30A-11.0-11.5
11.0 - 12.0	5						
12.0 - 13.0							133-P3C-Y30A-13.0-13.5
13.0 - 14.0							
14.0 - 15.0		0.0	moist	SM		fine silty SAND, (7.5YR 3/1) very dark gray, medium plasticity, soft to medium dense, moist, slight petroleum odor, no staining. Soils consistent with UNDno.	133-P3C-Y30A-15.0-15.5
15.0 - 16.0		0.0	moist	SM		fine silty SAND, trace wood fragments, (7.5YR 3/2) dark brown, medium plasticity, soft to medium dense, moist, no odor, no staining. Soils consistent with UNDno.	133-P3C-Y30A-16.0-16.5
16.0 - 17.0	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, dense, dry, moderate, sulfur odor, no staining. Soils consistent with MM.	133-P3C-Y30A-16.5-17.0
17.0 - 18.0							
18.0 - 19.0							
19.0 - 20.0							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611139.474
Date Started Drilling: 4/25/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682488.318
Date Finished Drilling: 4/25/2014 10:00:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Y31A		

(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		fine to coarse SAND, with fine to medium gravel, some glass, trace ash, (7.5YR 2.5/1) black, loose to medium dense, dry, no odor, no staining.	133-P3C-Y31A-0.5-1.0
2		0.0	dry to moist	FILL		fine to medium silty SAND, with ash, little cinders, little fibers, trace fine to coarse gravel, coal, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.	133-P3C-Y31A-2.5-3.0
3	4	9.0	wet	FILL		ASH, with medium to coarse gravel, some fine to medium silty sand, little cinders, debris, trace brick, (10YR 3/1) very dark gray, loose, wet, slight hydrocarbon odor, no staining.	133-P3C-Y31A-4.5-5.0
4							133-P3C-Y31A-6.5-7.0
5							133-P3C-Y31A-8.5-9.0
6			NR		NO RECOVERY		
7	5	0.0	wet	FILL		fine to medium silty SAND, and fine to medium gravel, with ash, little cinders, debris, (10YR 5/1) gray, loose to medium dense, wet, no odor, no staining.	133-P3C-Y31A-10.5-11.0
8							133-P3C-Y31A-12.5-13.0
9		0.0	dry	FILL		SILT, some fibers, trace wood debris, coal, (10YR 4/2) dark grayish brown, low plasticity, soft, dry, no odor, no staining.	133-P3C-Y31A-14.5-15.0
10	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-Y31A-15.0-15.5
11		0.0	dry	PT			PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (10YR 5/2) grayish brown, soft, dry, moderate organic odor, no staining. Soils consistent with MM.
12		0.0	dry	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
13							
14							
15							
16							
17							
18							
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611122
Date Started Drilling: 5/21/2013 8:54:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682466.375
Date Finished Drilling: 5/21/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y32A		

(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, weathered fragments, (10YR 2/1) black, non plastic, loose, slightly moist.	133-P3C-Y32A-1.0-1.5
		0.0	slightly moist	FILL		fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist.	
		0.0	moist	FILL		fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen.	
2-3	1.2	0.0		FILL		fine to medium silty SAND, some cinders, little ceramics, little fill material.	133-P3C-Y32A-3.0-3.5
				NR		NO RECOVERY	
4-5	1.8	0.0	moist	FILL		fine to medium silty SAND, some cinders, little fill material, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet.	133-P3C-Y32A-5.0-5.5
		12.6	wet	FILL		fine to coarse CINDERS, some ash, little brick, little glass, (10YR 3/1) very dark gray, non plastic, loose, wet, moderate petroleum odor, sheen.	
6-7	1.3	7.1	wet	NR FILL		NO RECOVERY	133-P3C-Y32A-6.0-6.5
				NR		ASH, some cinders, some fine to medium sand, little gravel, little fill material, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor, sheen.	133-P3C-Y32A-6.5-7.0
8-9	1.6	0.0	wet	FILL		ASH, some cinders, little sand, little coal, little fill material, (10YR 3/1) very dark gray, non plastic, loose, wet, slight petroleum odor, sheen.	133-P3C-Y32A-8.0-8.5
				NR		NO RECOVERY	133-P3C-Y32A-8.5-9.0
10-11	1.7	0.0	wet	FILL		ASH, some cinders, little coal, little fill material, (10YR 4/1) dark gray, non plastic, loose, wet, slight petroleum odor.	133-P3C-Y32A-10.0-10.5
				NR		NO RECOVERY	133-P3C-Y32A-10.5-11.0
12-13	2	0.0	wet	NR		NO RECOVERY	133-P3C-Y32A-12.0-12.5
		29.9	moist	FILL		CINDERS, little ash, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Y32A-12.5-13.0
14-15	2	1.3	moist	FILL		fine silty SAND, little ash, little roots, little fill material, (10YR 4/2) dark grayish brown, non plastic, loose, moist, slight petroleum odor, sheen.	133-P3C-Y32A-14.2-14.7
		1.6	moist	PT		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.	133-P3C-Y32A-14.3-14.8
15-16							133-P3C-Y32A-14.7-15.2
							133-P3C-Y32A-14.8-15.3

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: 611106.149
Date Started Drilling: 6/22/2015 4:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682438.347
Date Finished Drilling: 6/22/2015 4:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C-Y33A		Surface Elevation: 12.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	ASPHALT		ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	
4				NR		NO RECOVERY	
5	5	0.0		FILL		ASH, little fine to medium sand trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	
6		0.0	moist	FILL		ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
10		0.0	slightly moist	FILL		ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, no odor, no staining.	
12	5	0.0	moist	SP		fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.	
15		0.0	slightly moist	PT		PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with MM. UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Y33A-15.0-15.5
16		0.0		OL			
17	5						
18							
19							
20							








Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611108.65
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682439.141
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C-Y33A		

(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	dry	3	FILL		fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
2		0.0	dry	4B	FILL		fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining.	133-P3C-Y33A-ME-1.0-1.5
3		0.0	dry	1	FILL		CONCRETE, (9.5/2.5Y /1) white, dry, no odor, no staining.	
4		0.0	dry	3	FILL		fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	133-P3C-Y33A-ME-3.0-3.5
5		0.0	dry	3	FILL		ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue.	133-P3C-Y33A-ME-4.0-4.5
6	4.5	0.0	moist	3	FILL		NO RECOVERY.	
7							Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs.	133-P3C-Y33A-ME-7.0-7.5
8								
9								
10				3	NR		NO RECOVERY.	

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611283.92
Date Started Drilling: 11/14/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682720.86
Date Finished Drilling: 11/14/2014 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Z22A		

(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	dry	FILL		ASH, trace coal, trace fine to medium sand, trace debris, (10YR 4/4) dark yellowish brown, loose, dry, no odor, no staining.	133-PC3-Z22A-1.0-1.5
2-3		0.0	dry	FILL		fine to medium SAND, trace coal, trace gravel, (2.5YR 4/6) red, medium dense, dry, no odor, no staining.	133-PC3-Z22A-2.0-2.5
3-4		0.0	dry	FILL		ASH, trace coal, trace gravel, trace debris, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	133-PC3-Z22A-4.0-4.5
4-5		0.0	dry	FILL			
5-6	4	0.0	moist to wet	FILL		ASH, trace coal, trace debris, trace gravel, (10YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-PC3-Z22A-6.0-6.5
6-8						NO RECOVERY	133-PC3-Z22A-8.0-8.5
8-9				NR			
10-11	5	0.0	slightly moist	FILL		ASH, trace coal, trace gravel, trace debris, (10YR 4/1) dark gray, loose, slightly moist, no odor, no staining. GGM, trace ash, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	133-PC3-Z22A-10.0-10.5
11-12		0.0	moist	FILL			
12-15	5	0.0	moist	FILL		GGM, trace ash, (10Y 5/2) grayish olive, soft, moist, no odor, green staining.	
15-18		0.0		FILL		fine to medium silty SAND, trace organic fibers, trace ash, (10YR 2/1) black, slight petroleum odor.	133-PC3-Z22A-17.5-18.0
18-19		0.0	slightly moist	PT			PEAT (degraded vegetated material), 50% organic silt, 50% organic fibers, (10YR 4/3) brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM.
19-20							

PPG - PPG_LOGS.GDT - 1/9/15 10:39

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611270.592
Date Started Drilling: 11/25/2014 11:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682693.947
Date Finished Drilling: 11/25/2014 1:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Z23AR		

(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 3 4 5	5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		ASH, trace coal, trace brick, trace glass, trace debris, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-Z23AR-0.5-1.0
							133-P3C-Z23AR-2.5-3.0
6 7 8 9 10	5	0.0	slightly moist	FILL		ASH, trace coal, trace brick, trace debris, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	
		0.0	moist	FILL		GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	133-P3C-Z23AR-4.5-5.0
11 12 13 14 15 16 17	5	0.0	moist	FILL		GGM, (10Y 6/2) light grayish olive, soft, moist, no odor, green staining.	
							133-P3C-Z23AR-15.5-16.0
		3.2	slightly moist	FILL		fine sandy SILT, (10YR 2/1) black, low plasticity, medium dense, slightly moist, slight petroleum odor.	133-P3C-Z23AR-16.5-17.0
18 19 20		0.0	slightly moist	OL		SILT, 70% organic silt, 30% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Z23AR-17.0-17.5

PPG - PPG_LOGS.GDT - 1/9/15 10:39

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611243.294
Date Started Drilling: 11/14/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682640.507
Date Finished Drilling: 11/14/2014 11:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Z25A		

(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		0.0		1	CONCRETE		CONCRETE	
1-2	5	0.0	moist to wet	3	FILL		ASH, little wood fragments, trace coal, trace glass fragments, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-Z25A-0.5-1.0
2-3								133-P3C-Z25A-2.0-2.5
3-4								133-P3C-Z25A-4.0-4.5
4-5	5	0.0	dry	3	FILL		ASH, little fine to medium sand, fine to medium gravel, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	
5-6		0.0	wet	4C	FILL		fine to medium silty SAND, little ash, little fine to medium gravel, trace debris, (10YR 3/6) dark yellowish brown, loose, wet, no odor, green staining.	133-P3C-Z25A-6.0-6.5
6-7								133-P3C-Z25A-8.0-8.5
7-8	5	0.0	saturated	4C	FILL		ASH, little debris, little fine to medium sand, trace wood fragments, (10YR 5/2) grayish brown, loose, saturated, no odor, green staining.	133-P3C-Z25A-10.0-10.5
8-9		0.0	wet	3	FILL		fine to medium silty SAND, little ash, little fine gravel, trace debris, loose, wet, no odor, no staining.	133-P3C-Z25A-12.0-12.5
9-10								133-P3C-Z25A-14.0-14.5
10-11	5	0.0	moist to wet	3	FILL		fine to medium silty SAND, little ash, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining.	133-P3C-Z25A-15.0-15.5
11-12		0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-Z25A-15.5-16.0
12-13		0.0	slightly moist	9	OL		UND organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, low plasticity, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
13-14								
14-15								
15-16								
16-17								
17-18								
18-19								
19-20								

PPG - PPG_LOGS.GDT - 1/8/15 15:31

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611229.84
Date Started Drilling: 3/12/2014 10:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682613.482
Date Finished Drilling: 3/12/2014 11:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Z26A		

(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	4	0.0		CONCRETE		CONCRETE	
		0.0	slightly moist	FILL		fine to medium SAND, some ash, cinders, coal, trace wood fragments, (10YR 5/8) yellowish brown, loose to hard, slightly moist, no odor, no staining.	133-P3C-Z26A-1.0-1.5
				NR		NO RECOVERY	
5-10	5	0.0	moist	FILL		ASH, some cinders, coal, fine to medium sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3C-Z26A-5.0-5.5
							133-P3C-Z26A-7.0-7.5
							133-P3C-Z26A-9.0-9.5
							133-P3C-Z26A-11.0-11.5
11-15	5	0.0	moist	FILL		ASH, some cinders, coal, little fine to medium sand, fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-Z26A-11.0-11.5
							133-P3C-Z26A-13.0-13.5
		0.0	moist	FILL		fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense, moist, no odor, no staining.	133-P3C-Z26A-15.0-15.5
16-19	4	0.0	moist	FILL		fine silty SAND, trace ash, (5YR 5/2) reddish gray, dense, moist, no odor, no staining.	133-P3C-Z26A-15.0-15.5
		0.0	slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-Z26A-15.5-16.0
		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, low plasticity, stiff, moist, strong organic odor, no staining. Soils consistent with UNDorg.	
19-20				NR		NO RECOVERY	

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: 611216.012
Date Started Drilling: 3/12/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682593.955
Date Finished Drilling: 3/12/2014 9:35:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Z27A		

(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	3.5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		ASH, little cinders, coal, trace wood fragments, (10YR 5/6) yellowish brown, loose, dry, slight hydrocarbon odor, no staining.	133-P3C-Z27A-1.0-1.5
				NR		NO RECOVERY	133-P3C-Z27A-3.0-3.5
5-10	5	0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	133-P3C-Z27A-5.0-5.5
							133-P3C-Z27A-7.0-7.5
							133-P3C-Z27A-9.0-9.5
11-14	5	0.0	moist	FILL		ASH, some cinders, coal, little fine gravel, trace wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	133-P3C-Z27A-11.0-11.5
							133-P3C-Z27A-13.0-13.5
							133-P3C-Z27A-14.5-15.0
15-18	3	0.0	moist to wet	FILL		SILT, little ash, trace cinders, fine sand, (7.5YR 4/1) dark gray, low plasticity, soft, moist to wet, no odor, no staining.	133-P3C-Z27A-15.0-15.5
		0.0	moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/3) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
18-20				NR		NO RECOVERY	

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611202.8125
Date Started Drilling: 6/21/2013 10:56:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682560
Date Finished Drilling: 6/21/2013 1:20:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Z28A		

(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	1.7	0.0	dry	ASPHALT		ASPHALT	133-P3C-Z28A-1.0-1.5
		0.0		FILL		fine to medium silty SAND, some gravel, little ash, little wood, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	
2-3	1.6	0.0	dry	NR		NO RECOVERY	133-P3C-Z28A-3.0-3.5
		0.0		FILL		ASH, with cinders, coal, wood fragments, little ceramics, (10YR 6/2) light brownish gray, non plastic, loose, dry, no odor, no staining.	
4-5	1.5	0.0	slightly moist	NR		NO RECOVERY	133-P3C-Z28A-5.0-5.5
		0.0		FILL		fine to medium silty SAND, some ash, cinders, trace coarse gravel, (10YR 5/6) yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
6-7	2	0.0	moist to wet	NR		NO RECOVERY	133-P3C-Z28A-7.0-7.5
		0.0		FILL		fine silty SAND, little brick, ceramics, trace fill material, fine gravel, (10YR 5/3) brown, non plastic, loose to soft, slightly moist, slight petroleum odor sheen.	
8-9	1.4	0.0	moist to wet	NR		NO RECOVERY	133-P3C-Z28A-7.0-7.5X
		0.0		FILL		ASH, some cinders, coal, little wood fragments, (10YR 6/2) light brownish gray, non plastic, loose, moist to wet.	
10-11	1.1	0.0	wet	NR		NO RECOVERY	133-P3C-Z28A-8.9-9.4
		0.0		FILL		ASH, some cinders, coal, little wood fragments, (7.5YR 3/1) very dark gray (10YR 6/2) light brownish gray, non plastic, loose, moist to wet, slight petroleum odor, sheen.	
12-13	1.3	0.0	moist	NR		NO RECOVERY	133-P3C-Z28A-10.6-11.1
		0.0		FILL		ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, sheen.	
14-15	1.7	0.0	moist	NR		NO RECOVERY	133-P3C-Z28A-12.6-13.1
		0.0		FILL		ASH, some cinders, (10YR 4/2) dark grayish brown, non plastic, loose, moist, no odor, no staining.	
16	1.7	0.0	moist	OL		fine silty SAND, little brick, trace roots, (10YR 4/6) dark yellowish brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3C-Z28A-14.1-14.6
		0.0		NR		UNDorg, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Z28A-14.6-15.1
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: 611189.3125
Date Started Drilling: 5/22/2013 1:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682533.25
Date Finished Drilling: 5/22/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Z29A		

(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	5.2	dry	ASPHALT		ASPHALT, weathered and sub-base, (10YR 2/1) black, non plastic, loose, dry.	
		2.0	moist	FILL		fine silty SAND, some brick, little asphalt, little cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist.	
2	2	0.0	moist	FILL		fine to medium silty SAND, some cinders, little brick, little gravel, (10YR 3/3) dark brown, non plastic, medium dense, moist.	
		0.0	moist	FILL		CINDERS, some ash, little concrete, little fine to medium sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist.	
3	1.7	337	wet	FILL		CINDERS, some ash, some fine sand, little glass, little coal, (10YR 2/1) black, non plastic, loose, wet, strong petroleum odor, sheen.	
4	1.2	15.4	wet	NR FILL		NO RECOVERY CINDERS, some ash, little glass fragments, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor.	133-P3C-Z29A-6.5-7.0
5	0.0	wet	FILL NR		fine silty SAND, some cinders, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	NO RECOVERY	133-P3C-Z29A-6.5-7.0X
6	1	2.4	wet	FILL NR		CINDERS, some ash, some gravel, little glass, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Z29A-8.5-9.0
7	1.2	2.1	wet	FILL NR		CINDERS, some ash, little gravel, trace glass, trace metal, (10YR 4/1) dark gray, non plastic, loose, wet.	133-P3C-Z29A-10.5-11.0
8	1.3	0.0	wet	FILL NR		CINDERS, some ash, little glass fragments, little gravel, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-Z29A-12.5-13.0
9	2	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Z29A-14.5-15.0
10	0.0	moist	FILL		fine silty SAND, little gravel, little roots, (5YR 4/2) dark reddish gray, low plasticity, loose, moist.	NO RECOVERY	133-P3C-Z29A-15.5-16.0
11	1.5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, non plastic, loose, moist, slight sulfur odor. Soils consistent with MM.	133-P3C-Z29A-16.0-16.5
12				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: 611175.505
Date Started Drilling: 6/11/2015 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.964
Date Finished Drilling: 6/11/2017	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: P3C-Z30A		Surface Elevation: 11.541 ft NAVD88





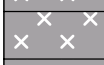


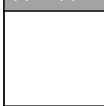


Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	FILL		ASPHALT, (10YR 2/1) black, dry, no odor, no staining.	
2		44.0	dry	FILL		fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark grayish brown, medium dense, dry, slight chemical odor, no staining.	133-P3C-Z30A-ME-1.0-1.5
3		80.0	dry to moist	FILL		Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil and chemical odor.	133-P3C-Z30A-ME-3.0-3.5
4				NR		NO RECOVERY	
5	2.5	500.0	moist to wet	FILL		Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong fuel oil odor, water table at 6.0 ft bgs.	133-P3C-Z30A-ME-5.0-5.5
7							133-P3C-Z30A-ME-7.0-7.5
8				NR		NO RECOVERY	
9							
10							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

	Client: PPG Industries		BORING ID: 135-B1		
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-611339.5 Y-682651.8		Depth of Boring: 32.00		
End Date: 1/4/2007	Elevation: 11.62		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Coarse GRAVEL.			
		FILL: Dark Brown medium SAND, some Silt and fine Gravel, little brick fragments and glass.	0.0 ppm	135-B1A (0.5-1.0)	Cr+6, TAL Metals
2		FILL: Gray and Red-orange ASH and SILT, some fine to coarse Gravel, little brick, glass and coal fragments.	0.0 ppm	135-B1B (2.5-3.0)	Cr+6, TAL Metals
		FILL: Gray to Red-orange fine GRAVEL, coarse SAND, little fine gravel-sized Slag.	0.0 ppm	135-B1C (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Pale Olive (5Y 6/3) SILT and fine to coarse SAND, little Clay, angular concrete fragments, 10% COPR, lime green staining, wet, loose. No odor. (Waste Mud)	0.1 ppm		
		FILL: Grayish-Brown (2.5Y 5/2) SILT, little medium to coarse Sand, some white chalky pieces, rough concrete-like pieces, 10% COPR, trace lime green staining, moist, chalky texture. No odor. (Waste Mud)	0.1 ppm	135-B1D (4.5-5.0)	MS/MSD, Cr+6, TAL Metals
6			0.1 ppm		
		NR: No Recovery	0.1 ppm		
8		FILL: Grayish-Brown (2.5Y 5/2) SILT, little medium to coarse Sand, some white chalky pieces, rough concrete-like pieces, 10% COPR, trace lime green staining, moist, loose, chalky texture. No odor. (Waste Mud)	0.9 ppm		
			0.0 ppm	135-B1E (8.5-9.5)	Cr+6, TAL Metals
10			0.0 ppm		

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


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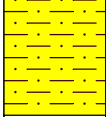




ENSR AECOM	Client: PPG Industries	BORING ID: 135-B1			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-611339.5 Y-682651.8	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.62	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

			0.0 ppm		
		NR: No Recovery			
12		FILL: Black-stained organic SILT, moist, medium dense. No odor.	0.3 ppm		
		PEAT: PEAT (Meadow Mat), Organics, moist, medium stiff. Sulfur odor.	22.9 ppm	135-B1F (12.8-13.3)	Cr+6, TAL Metals
14			21.9 ppm		
		NR: No Recovery			
16		PEAT: Very Dark Gray (5YR 3/1) organic CLAY, trace Organics, moist, medium stiff. Sulfur odor.	30.6 ppm		
			11.8 ppm	135-B1G (17.0-17.5)	Cr+6, TAL Metals
18		PEAT: PEAT, organic-rich, moist, soft. Sulfur odor.	10.8 ppm		
		NR: No Recovery			
20		PEAT: PEAT, organic-rich, moist, soft. Sulfur odor.	61.4 ppm		
		SILT: Gray (5Y 5/1) SILT, some Clay, moist, medium dense. Sulfur odor.	27.6 ppm	135-B1H (20.6-21.1)	Cr+6, TAL Metals
		SILT: Gray (5Y 5/1) SILT, trace fine Sand, moist,			

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	Client: PPG Industries	BORING ID: 135-B1			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-611339.5 Y-682651.8	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.62	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

22		medium dense. Sulfur odor.	28.8 ppm		
		SILT: Dark Grayish Brown (2.5Y 4/2) SILT, moist, medium dense. Sulfur odor.	10.2 ppm		
		NR: No Recovery			
24		SAND: Dark Reddish Gray (5YR 4/2) fine to coarse SAND, little Silt, wet, loose. No odor.	10.8 ppm		
			0.0 ppm		
26			0.0 ppm		
			0.0 ppm		
		NR: No Recovery			
28		SAND: Weak Red (2.5YR 4/2) fine to coarse SAND, trace silt, wet, loose. No odor.	0.0 ppm		
			0.0 ppm		
30			0.0 ppm		
		NR: No Recovery			
32		NULL: End of Boring at 32 ft.			

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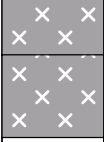
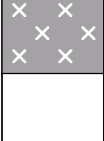
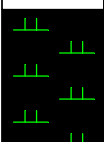
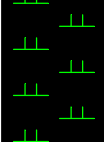

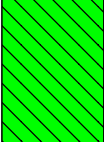
ENSR AECOM	Client: PPG Industries		BORING ID: 135-B2		
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-611196.6 Y- 682514.8		Depth of Boring: 32.00		
End Date: 1/3/2007	Elevation: 11.35		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0	[X pattern]	FILL: Topsoil.	0.0 ppm	135-B2A (0.9-1.4)	Cr+6, TAL Metals
		FILL: Wood planks and coarse Gravel.			
	[X pattern]	FILL: Dark Brown corase SAND, some fine Gravel, little glass peices.	0.0 ppm	135-B2B (2.1-2.6)	Cr+6, TAL Metals
2		FILL: Gray coarse SAND, ASH, some fine Gravel, little glass pieces, trace roots			
	[X pattern]	FILL: Black stained, Brown fine to coarse GRAVEL, some Ash, organics, wet. Strong coal tar odor.	16.4 ppm	135-B2C(3.4-3.8)	Cr+6, TAL Metals
4		FILL: Very dark Gray (7.5YR 3/1) medium to coarse SAND, little Silt, wet. Slight naptha odor.	7.6 ppm	135-B2D (4.5-5.0)	Cr+6, TAL Metals
	FILL: Brown (7.5YR 4/2) SILT, some large wood pieces, wet, loose. No odor.	20.1 ppm			
	[X pattern]	FILL: Brown (7.5YR 4/2) SILT, some large wood pieces, wet, loose. No odor.	3.7 ppm		
6		FILL: Gray (7.5YR 5/1) ASH, some Fill materials (ceramics, tile, coal, glass), trace Silt and Clay, wet, loose. No odor.	0.5 ppm		
		NR: No Recovery			
	[X pattern]	FILL: Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (metal, wood pieces, shell fragments), trace Silt and Clay, wet, loose. No odor.	0.0 ppm	135-B2E (8.5-9.0)	Cr+6, TAL Metals
8			0.1 ppm		
		NR: No Recovery	0.0 ppm		
10					

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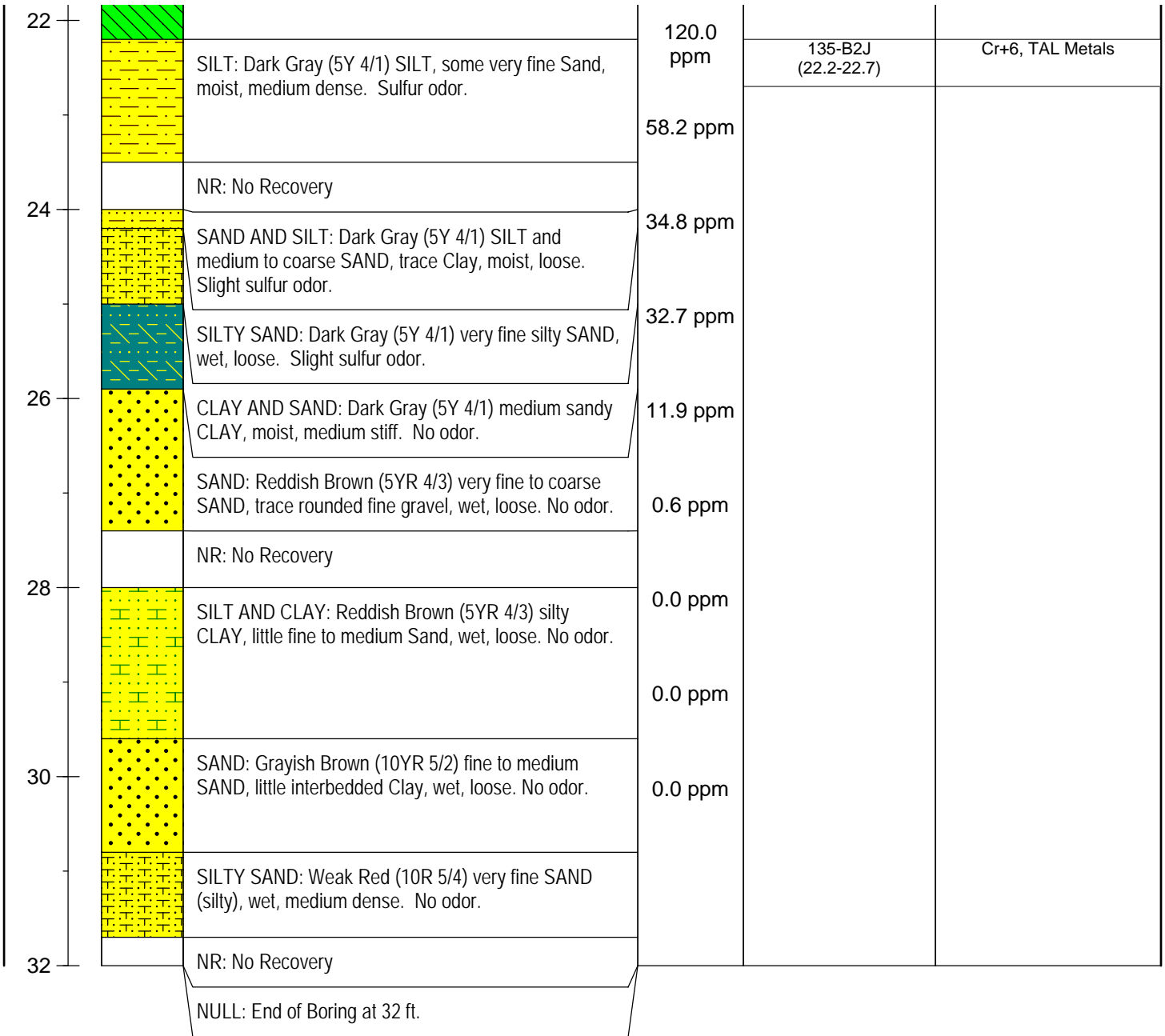
	Client: PPG Industries		BORING ID: 135-B2		
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-611196.6 Y- 682514.8		Depth of Boring: 32.00		
End Date: 1/3/2007	Elevation: 11.35		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, loose. No odor.	0.0 ppm		
				135-B2F (12.5-13.0)	Cr+6, TAL Metals
14		FILL: Black stained CLAY, coal tar, wet, soft. No odor.	0.1 ppm		
				135-B2G (13.7-14.2)	Cr+6, TAL Metals
16		FILL: Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled CLAY, some gray-mint greenish staining, moist, soft, slightly chalky. No odor.	0.0 ppm		
18		NR: No Recovery	10.0 ppm		
				135-B2H (16.0-16.5)	Cr+6, TAL Metals
20		PEAT: PEAT, very organic, water has a slight sheen, wet, soft. Very pungent sulfur odor.	72.6 ppm		
			89.6 ppm		
20		NR: No Recovery	228.0 ppm		
20		CLAY: Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, soft. Sulfur odor.	38.4 ppm		
				135-B2I (20.0-20.5)	Cr+6, TAL Metals
			97.2 ppm		

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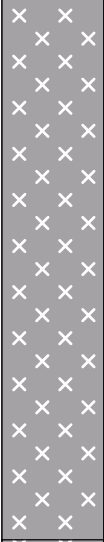


	Client: PPG Industries	BORING ID: 135-B2			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-611196.6 Y- 682514.8	Depth of Boring: 32.00			
End Date: 1/3/2007	Elevation: 11.35	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra 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: 135-B3		
	Site: Site 135				
Start Date: 1/26/2007	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-610977.8 Y-682312.2		Depth of Boring: 28.00		
End Date: 1/26/2007	Elevation: 9.3		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Very Dark Gray (5Y 3/1) coarse SAND, some fine gravel-sized COPR (15%), trace silty Clay and brick fragments, dry.	0.0 ppm	135-B3A (1.1-1.6)	Cr+6, TAL Metals
			0.0 ppm		
			0.0 ppm		
			91.3 ppm	135-B3B (3.4-4.0)	Cr+6, TAL Metals
			45.1 ppm		
2		FILL: Black (10YR 2/1) ASH, some fine to medium Gravel, little ceramic fragments, wet. Sheen and strong MGP odor.			
6					
4		NR: No Recovery			
8		FILL: Black (10YR 2/1) ASH, some fine to medium Gravel, little ceramic fragments, wet. Sheen and strong MGP odor.	72.1 ppm		

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.

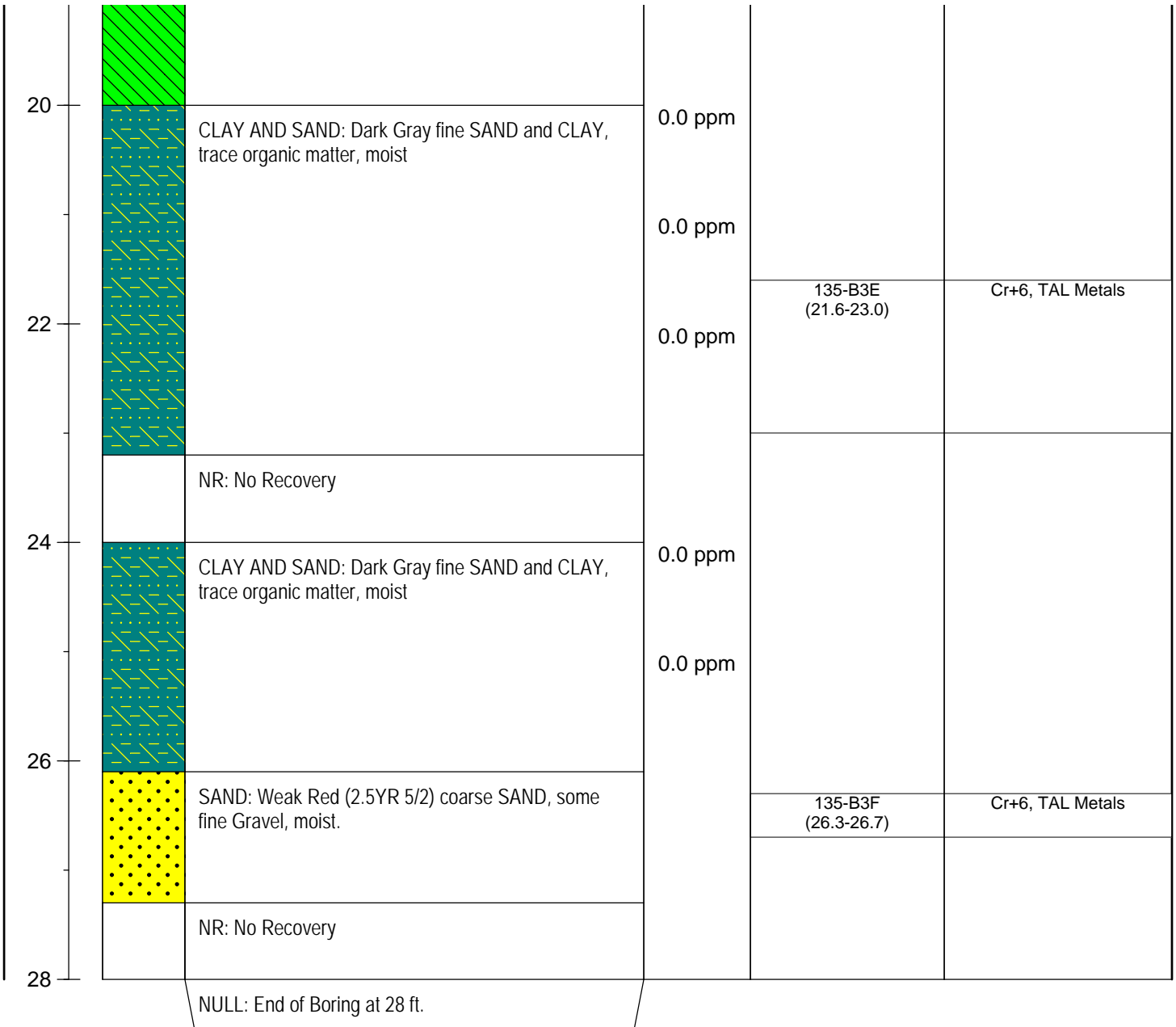
	Client: PPG Industries	BORING ID: 135-B3			
	Site: Site 135				
Start Date: 1/26/2007	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-610977.8 Y-682312.2	Depth of Boring: 28.00			
End Date: 1/26/2007	Elevation: 9.3	Geologist: P. Kelly			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Very Dark Grayish Brown (10 YR 3/2) SILT and CLAY, some Black organic matter, trace fine to coarse Gravel.	NA	135-B3C (10.5-10.8)	Cr+6, TAL Metals
		NR: No Recovery			
12					
14					
16		CLAY: Dark Gray (5G 4/1) CLAY, little organic matter, firm, moist.	0.0 ppm	135-B3D (16.0-16.1)	Cr+6, TAL Metals
			0.0 ppm		
18				0.0 ppm	

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

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	Client: PPG Industries	BORING ID: 135-B3			
	Site: Site 135				
Start Date: 1/26/2007	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-610977.8 Y-682312.2	Depth of Boring: 28.00			
End Date: 1/26/2007	Elevation: 9.3	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.

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: 611228.5625
Date Started Drilling: 5/22/2013 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682547.5
Date Finished Drilling: 5/22/2013 10:15:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - AA28A		

(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	slightly moist	FILL		fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
2	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (7.5YR 3/4) dark brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
3		0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	
4	1.1	45.1	moist	FILL		ASH, with and oil-like material, some coal, cinders, wood fragments, (7.5YR 4/1) dark gray, non plastic, loose, moist, strong naphthalene odor, sheen.	135-P3C-AA28A-4.5-5.0
5				NR		NO RECOVERY	
6	1.6	56.7	moist	FILL		ASH, with and oil-like material, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-AA28A-6.5-7.0 135-P3C-AA28A-6.5-7.0X
7				NR		NO RECOVERY	
8	1.7	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-8.5-9.0
9				NR		NO RECOVERY	
10	1	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-10.5-11.0
11				NR		NO RECOVERY	
12	2	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-12.5-13.0
13		7.2	dry	FILL		SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor sheen.	
14	2	9.3	dry	FILL		SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor, sheen.	135-P3C-AA28A-14.5-15.0
15		0.0	moist	FILL		SILT, some fine sand, little roots, (10YR 5/6) yellowish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-AA28A-15.3-15.8
16	1.2	2.3	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-AA28A-15.8-16.3
17		2.3	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM.	
18				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: 611216.052
Date Started Drilling: 4/23/2014 7:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682519.709
Date Finished Drilling: 4/23/2014 9:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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
1-3	5	0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little wood fragments, little ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-AA29A-1.0-1.5
		0.0	dry	FILL		CINDERS, some ash, little fine to medium gravel, little coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	135-P3C-AA29A-3.0-3.5
		0.0	dry	FILL		CINDERS, with fine to medium sand, some ash, little wood fragments, little medium to coarse gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	
5-7	5	4.3	moist	FILL		fine to medium silty SAND, with cinders, some fine to medium gravel, some ash, trace ceramics, (7.5YR 3/1) very dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-AA29A-5.0-5.5
		49.9	wet	FILL		CINDERS, some fine to medium sand, little fine to medium gravel, trace coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-AA29A-7.0-7.5
7-10	5						135-P3C-AA29A-9.0-9.5
		0.0	moist	FILL		CINDERS, with fine to medium sand, some wood fragments, little coal, little fine to medium gravel, (7.5YR 2.5/1) black, low plasticity, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-AA29A-11.0-11.5
							135-P3C-AA29A-13.0-13.5
15-17	5	0.0	moist	FILL		CINDERS, some fine to medium sand, little coal, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no odor, hydrocarbon staining.	135-P3C-AA29A-15.0-15.5
		0.0	dry to moist	FILL		fine silty SAND, trace brick, (7.5YR 6/3) light brown, loose, dry to moist, no odor, no staining.	135-P3C-AA29A-16.0-16.5
		0.0	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, no odor, no staining. Soils consistent with MM.
18-20							

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 611279.375
Date Started Drilling: 5/23/2013 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682591.625
Date Finished Drilling: 5/23/2013 10:40:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - BB26A		

(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, weathered and sub-base, (10YR 2/1) black, non plastic, dense, dry.	
		0.0	slightly moist	3	FILL		fine to medium silty SAND, some gravel, little cinders, trace brick, trace glass, trace coal, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	
2	1.8	0.0	slightly moist	3	FILL		fine to medium silty SAND, some gravel, little cinders, trace brick, (10YR 4/2) dark grayish brown, non plastic, dense, slightly moist.	
		0.0	slightly moist	3	FILL		ASH, some cinders, little gravel, trace brick, (10YR 5/1) gray, non plastic, loose, slightly moist.	
4	1.7	4.6	wet	NR	NR		NO RECOVERY	
		3		3	FILL		ASH, some cinders, little gravel, trace ceramics, trace brick, (10YR 5/2) grayish brown, non plastic, loose, wet.	135-P3C-BB26A-5.0-5.5
5	1.7	0.0	wet	3	FILL		SILT, some cinders, little gravel, little rubber, (10YR 2/1) black, non plastic, loose, wet.	
		NR		NR	NR		NO RECOVERY	
6	2	0.0	wet	3	FILL		SILT, some organics, little cinders, (10YR 2/1) black, non plastic, loose, wet.	
		0.0	wet	3	FILL		ASH, some cinders, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-BB26A-7.0-7.5
7	1.7	0.0	wet	3	FILL		ASH, some cinders, little coal, trace ceramics, (10YR 4/1) dark gray, non plastic, loose, wet.	
		0.0	wet	3	FILL		NO RECOVERY	
8	1.7	0.0	wet	3	FILL		ASH, some cinders, little coal, little wood fragments, (10YR 4/1) dark gray, non plastic, loose, wet.	
		0.0	wet	3	FILL		NO RECOVERY	
9	1.2	0.0	wet	3	FILL		ASH, some cinders, little gravel, trace wood, (10YR 4/1) dark gray, non plastic, loose, wet.	
		0.0	moist	3	FILL		SILT, some roots, little cinders, little ash, (10YR 3/2) very dark grayish brown, non plastic, loose, moist.	135-P3C-BB26A-12.7-13.2
10	2	0.0	moist	3	FILL		NO RECOVERY	
		0.0	moist	3	FILL		fine silty SAND, little roots, little clay, trace brick, trace shells, (10YR 5/2) grayish brown, low plasticity, soft, moist.	135-P3C-BB26A-14.6-15.1
11	2	2.1	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	135-P3C-BB26A-15.1-15.6
		2.3	moist	7	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt/clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
12	2	1.8	moist	9	OH		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt/clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
		2.2	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
13	2	2.2	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
		2.2	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
14	2	2.2	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
		2.2	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	

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: 611364.1875
Date Started Drilling: 5/23/2013 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682680.25
Date Finished Drilling: 5/23/2013 2:20:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - CC22A		

(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, weathered, and sub-base, (10YR 2/1) black, non plastic, dense, dry.	
2		0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little concrete, trace brick, (7.5YR 3/2) dark brown, non plastic, medium dense, slightly moist	
3	2	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little coal, trace cinders, (10YR 2/2) very dark brown, non plastic, loose, slightly moist.	
4		0.0	moist	FILL		SILT, trace fine sand, (10YR 5/4) yellowish brown, non plastic, loose, dry.	
5	1.8	0.0	wet	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, loose, moist.	
6		0.0	wet	NR FILL		ASH, some cinders, little coal, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	
7	2						
8		0.0	wet	FILL		ASH, some cinders, little gravel, trace brick, (10YR 4/1) dark gray, non plastic, loose, wet.	
9	1.8						
10		0.0	wet	NR FILL		ASH, some cinders, little gravel, little coal, trace cardboard, (10YR 4/1) dark gray, non plastic, loose, wet.	
11	1.8						
12		0.0	moist	FILL		SILT, some organics, little cinders, (10YR 2/1) black, medium plasticity, soft, moist, slight burnt odor.	
13	2	0.0	moist	FILL		NO RECOVERY	
14		2.1	moist	PT		SILT, some organics, little gravel, (10YR 2/1) black, medium plasticity, soft, moist, slight burnt odor.	
15						very fine SAND, little silt, (2.5Y 3/3) dark olive brown, non plastic, loose, moist to wet, slight burnt odor.	
16						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.	

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: 610771.951
Date Started Drilling: 4/15/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682105.268
Date Finished Drilling: 4/15/2014 9:45:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		

(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, with coarse gravel, little crushed concrete, (10YR 7/2) light gray, medium dense, dry, no odor, no staining.	135-P3C-T48A-0.5-1.0
2	5	0.0	dry	FILL		fine to medium SAND, some cinders, ash, little glass, brick fragments, (5YR 2.5/1) black, medium dense, dry, no odor, no staining.	135-P3C-T48A-2.0-2.5
		0.0	moist	FILL		fine silty SAND, some cinders, ash, little glass, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	
3							135-P3C-T48A-4.0-4.5
4							
5							
6	4	0.0	wet	FILL		fine to medium silty SAND, little glass, trace fine gravel, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	135-P3C-T48A-6.0-6.5
7		0.0	wet	FILL		fine to medium silty SAND, and ash, some cinders, little fine to medium gravel, (10YR 5/1) gray, medium dense, wet, no odor, no staining.	
8							135-P3C-T48A-8.0-8.5
9				NR		NO RECOVERY	
10							
11	5	0.0	saturated to wet	FILL		fine silty SAND, and wood debris, (7.5YR 2.5/1) black, low plasticity, very loose, saturated to wet, no odor, no staining.	135-P3C-T48A-10.0-10.5
12		0.0	moist	FILL		fine to medium silty SAND, trace medium gravel, (7.5R 4/3) weak red, dense, moist, no odor, no staining.	135-P3C-T48A-11.0-11.5
13		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-T48A-11.5-12.0
14		0.0	dry	OL		UNDorg SILT, 60% organic silt, 40% organic fibers, (10YR 5/2) grayish brown, low plasticity, medium stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	
15						UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft to medium stiff, dry, slight organic odor, no staining. Soils consistent with UNDorg.	

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: Direct Push	Coordinates (NJSPNAD83) x: 610771.463
Date Started Drilling: 8/17/2016 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682104.958
Date Finished Drilling: 8/17/2016	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Actual - Smith PDI		Surface Elevation: 10.537 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
1-4	4	0.0		1	CONCRETE		Concrete slab			
			dry	3	FILL		medium to coarse SAND, some ash, trace coal, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining.			
			dry to moist	3	FILL		fine to medium sandy SILT, little cinders, (7.5YR 3/4) dark brown, dense, dry to moist, no odor, no staining.			
				3	FILL		CINDERS, some fill debris, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.			
						NR	NR			NO RECOVERY
5-10	4.5	0.0	moist	3	FILL		CINDERS, little fill debris, trace coal, (5YR 4/1) dark gray, loose, moist, no odor, no staining.			
			moist	3	FILL		medium to coarse SAND, trace ash, coal and fill debris, (7.5YR 4/1) dark gray, dense, moist, no odor, no staining.			
			moist to wet	3	FILL		CINDERS, (5YR 6/1) gray, loose, moist to wet, no odor, no staining, water at 7.0 feet.			
						NR	NR			NO RECOVERY
						moist	3		FILL	
11-15	5	0.0	dry	14	SW-SC		fine to medium sandy SILT, little medium gravel, (2.5YR 5/3) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno.	135-P3C-T48AR-12.0-12.5		
			dry	7	PT		PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (7.5YR 4/2) brown, medium dense, dry, moderate organic odor, no staining. Soils consistent with UNDorg.			
			dry	9	SM		Organic SILT, 10% organic fibers, 90% organic silt, (5YR 6/1) gray, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.			

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A_GDT - 11/16/16 10:59

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610839.193
Date Started Drilling: 4/16/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682172.087
Date Finished Drilling: 4/16/2014 9:05:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		

(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	4	0.0		CONCRETE		CONCRETE	
		0.0	slightly moist	FILL		fine to medium SAND, some brick fragments, little fine to medium gravel, (5YR 5/2) reddish gray, hard, slightly moist, no odor, no staining.	135-P3C-U45A-1.0-1.5
		0.0	moist	FILL		CINDERS, with ash, some coal, little silt, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	135-P3C-U45A-3.0-3.5
				NR		NO RECOVERY	
5-8	5	15.7	wet	FILL		CINDERS, with fine to medium gravel, some fine sand, ash, trace silt, (7.5YR 3/1) very dark gray, loose, wet, slight hydrocarbon odor, slight sheen.	135-P3C-U45A-5.0-5.5
		0.0	moist	FILL		CINDERS, with fine to medium gravel, some ash, fine sand, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	135-P3C-U45A-7.0-7.5
		0.0	slightly moist	FILL		fine silty SAND, little fine gravel, trace ash, roots, (5YR 4/3) reddish brown, dense, slightly moist, no odor, no staining.	135-P3C-U45A-9.0-9.5
11-14	4	0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little fine sand, trace ceramics, wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-P3C-U45A-11.0-11.5
				NR		NO RECOVERY	
15-16	5	0.0	slightly moist	FILL		fine to medium silty SAND, trace fine to medium gravel, cinders, roots, (5YR 4/3) reddish brown, slightly moist, no odor, no staining.	135-P3C-U45A-15.2-15.7
		0.0		PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, strong organic odor, no staining. Soils consistent with MM.	135-P3C-U45A-15.7.16.2
17-20							

PPG - PPG_LOGS_GDT - 6/6/14 12:54

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: 610935.8125
Date Started Drilling: 7/19/2013 7:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682275.375
Date Finished Drilling: 7/19/2013 6:54:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - V41A		

(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 sandy, with fine to medium gravel, some brick, fill material, (7.5YR 4/2) brown, non plastic loose, slightly moist, no odor, no staining.	
2	1.1	0.0	slightly moist	FILL		weathered BRICK, with fine silty sand, little fine to coarse gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
3		0.0	slightly moist	FILL		fine silty SAND, some coarse gravel, little brick, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
4	2			NR		NO RECOVERY	
5		0.0	slightly moist dry	FILL		fine silty SAND, some coarse gravel, little brick, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
6	1.6	0.0	slightly moist	FILL		fine to medium SAND, some cinders, coal, little brick, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	135-P3C-V41A-5.0-5.5
7		17.2	slightly moist	FILL		CINDERS, with coal, little ash, fine sand, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, slight petroleum odor, slight sheen.	135-P3C-V41A-7.0-7.5
8	1.7			NR		NO RECOVERY	
9		10.1	slightly moist	FILL		CINDERS, with coal, little ash, fine sand, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, slight petroleum odor, slight sheen.	135-P3C-V41A-9.0-9.5
10	1.6			NR		NO RECOVERY	
11		0.0	moist	FILL		fine to medium silty SAND, some cinders, ash, coal, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	135-P3C-V41A-11.0-11.5
12	1.5			NR		NO RECOVERY	
13		0.0	moist	FILL		fine to medium silty SAND, some cinders, ash, coal, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	135-P3C-V41A-13.0-13.5
14	2			NR		NO RECOVERY	
15		0.0	moist	FILL		SILT, some fine sand, little coarse gravel, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-V41A-15.0-15.5
16	2	2.7	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-V41A-15.5-16.0
17		1.3	slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-V41A-15.5-16.0X
18							

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: 610906.53
Date Started Drilling: 4/15/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682238.96
Date Finished Drilling: 4/15/2014 9:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Property		

(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		crushed CONCRETE, (10YR 8/1) white, loose, dry, no odor, no staining.	
2	5	125.0	moist	FILL		ASH, with medium sand, some ash, little coal, trace glass fragments, (7.5YR 2.5/2) very dark brown, loose, moist, moderate hydrocarbon odor, hydrocarbon staining.	135-P3C-V42A-1.5-2.0
3							
4							135-P3C-V42A-3.5-4.0
5							
6	5	330.0	moist to wet	FILL		fine to medium SAND, with ash, some cinders, little coarse gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, moist to wet, strong hydrocarbon odor, sheen.	135-P3C-V42A-5.5-6.0
7							
8		20.0	moist to wet	FILL		medium SAND, some ash, little cinders, little glass fragments, (7.5YR 2.5/1) black, loose, moist to wet, moderate hydrocarbon odor, sheen.	135-P3C-V42A-7.5-8.0
9							
10	4	0.0	dry	FILL		fine to medium SAND, little medium to coarse gravel, trace coal, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	135-P3C-V42A-9.5-10.0
11							
12		0.0	moist	FILL		CINDERS, some ash, little coal, little fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-P3C-V42A-11.5-12.0
13		0.0	dry	FILL		fine to medium silty SAND, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
14				NR		NO RECOVERY	135-P3C-V42A-13.5-14.0
15	5	0.0	wet	FILL		fine silty SAND, little coarse gravel, (7.5YR 3/3) dark brown, loose, wet, no odor, no staining.	135-P3C-V42A-15.0-15.5
16		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, dry, moderate organic odor. Soils consistent with MM.	135-P3C-V42A-15.5-16.0
17							
18							
19							
20							

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 610987.375
Date Started Drilling: 5/13/2013 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682332.625
Date Finished Drilling: 5/13/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - W38A		

(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	1.5	0.0	dry	FILL		fine to medium SAND, trace silt and fine gravel, (7.5YR 4/3) brown, non plastic, soft, dry to moist, no odor, no staining, fill material.	
		0.0	dry	FILL		fine to medium SAND, and concrete, some fill material, (7.5YR 3/4) dark brown, non plastic, soft, dry to moist, no odor, no staining.	
2	1.8	0.0	moist	FILL		NO RECOVERY	
3						fine silty SAND, some fill material, little fine gravel, (10YR 3/3) dark brown, low plasticity, soft, moist.	
4	1.8	0.0	dry	NR FILL		NO RECOVERY	
5						fine to medium silty SAND, with coal, cinder, ash some wood fragments, (10YR 5/2) grayish brown, non plastic, loose to soft, dry to slightly moist, no odor, no staining.	
6	1.5	0.0	slightly moist	NR FILL		NO RECOVERY	
7						fine silty SAND, some ash, cinders, coal, little fine to medium gravel, (7.5YR 5/1) gray, non plastic, loose to soft, slightly moist, no staining.	
8	1	0.0	slightly moist	FILL		NO RECOVERY	
9						fine to medium, some ash, cinders, ceramics, little fine to medium gravel, trace glass, rubber, (7.5YR 4/1) dark gray, non plastic, loose to soft, slightly moist, no staining.	
10	1.6	0.0	moist	FILL		ASH, with fine sand, some cinders, wood fragments, little ceramics, coal, trace glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
11						NO RECOVERY	
12	2	0.0	moist	NR FILL		ASH, with fine sand, some cinders, wood fragments, little ceramics, coal, trace glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
13						NO RECOVERY	
14	1.3	0.0	moist	FILL		SILT, little roots, trace fine sand, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	
15						SILT, little roots, trace fine sand, fill material, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	
16	2	0.0	moist	FILL		NO RECOVERY	
17						SILT, little roots, trace fine sand, fill material, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	
18		1.7	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
		2.1	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, non plastic, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	

PPG - PPG_LOGS.GDT - 8/8/13 11:32

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: 610970.8125
Date Started Drilling: 5/20/2013 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682308.8125
Date Finished Drilling: 5/20/2013 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - W39A		

(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		medium to coarse SAND, little fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
2-3	1	0.0		FILL		fine to medium silty SAND, with fine to coarse gravel, little crushed concrete, brick, (5YR 4/4) reddish brown, non plastic, hard, slightly moist, no odor, no staining.	
				NR			
4-5	1.8	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-5.0-5.5
6	2	0.0	dry	NR		NO RECOVERY	
7				FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
8-9	1.5	196.0	moist	FILL		TAR-LIKE MATERIAL, with fine to coarse gravel, some ash, cinders, coal, wood fragments, trace silt, (7.5YR 2.5/1) black, non plastic, loose, moist, strong tar odor, sheen.	135-P3C-W39A-9.0-9.5
10				NR		NO RECOVERY	
11	1.7	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, silt, ceramics, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-11.0-11.5
12	2	0.0	dry	NR		NO RECOVERY	
		0.0	moist	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, silt, ceramics, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
13	2	0.0	moist	FILL		SILT, some roots, little ash, wood fragments, fill material, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-W39A-13.0-13.5
14				OL			
15	2	1.2	dry	PT		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, low plasticity, soft, moderate organic odor, no staining. Soils consistent with UNDorg.	135-P3C-W39A-13.5-14.0
14		2.3		MH		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.	
16		0.0	moist			UNDno SILT, with roots, little organics, (10YR 5/2) grayish brown, low plasticity, soft to dense, 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 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: 610957.968
Date Started Drilling: 4/21/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682280.982
Date Finished Drilling: 4/21/2014 9:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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		fine to medium SAND, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-1.0-1.5
		0.0	dry	FILL			
2	5	0.0	dry	FILL		fine to medium SAND, some glass fragments, trace concrete, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-3.0-3.5
3							
4	5	0.0	dry	FILL		ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-5.0-5.5
5							
6	5	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-7.0-7.5
7							
8	5	0.0	dry	FILL		fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-W40A-9.0-9.5
9							
10	5	87.3	wet	FILL		fine to medium SAND, some silt, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-11.0-11.5
11							
12	5	0.0	dry	FILL		fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-13.0-13.5
13							
14	5	0.0	dry	PT		fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no odor, no staining.	135-P3C-W40A-14.4-14.9
15							
16	5	0.0	dry to moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM.	135-P3C-W40A-14.9-15.4
17							
18	5	0.0	dry to moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM.	
19							
20	5	0.0	dry to moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (5YR 4/1) dark gray, low plasticity, soft, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg.	

PPG - PPG_LOGS_GDT - 6/6/14 12:54

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: 611040.125
Date Started Drilling: 5/13/2013 10:39:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682373.6875
Date Finished Drilling: 5/13/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - X36A		

(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	1.8	0.0	slightly moist	FILL		fine silty SAND, some fill material, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL			
2	2	0.0	slightly moist	NR		NO RECOVERY	
3		0.0	slightly moist	FILL		fine silty SAND, some fill material, little gravel, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist.	
4	1.6	0.0	moist	FILL		fine silty SAND, some concrete, some brick, little weathered asphalt, (10YR 4/2) dark grayish brown, non plastic, dense, slightly moist.	
5						ASH, little gravel, little fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, moist.	
6	1.4	0.0	wet	NR		NO RECOVERY	
7				FILL		ASH, some cinders, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	135-P3C-X36A-6.0-6.5
8	1.4	0.0	wet	NR		NO RECOVERY	
9				FILL		ASH, little wood, little gravel, (10YR 2/1) black, non plastic, loose, wet, slight HC odor, sheen.	135-P3C-X36A-8.0-8.5 135-P3C-X36A-8.0-8.5X
10	1.2	0.0	wet	NR		NO RECOVERY	
11				FILL		ASH, some cinders, some coal, (10YR 4/1) dark gray, non plastic, loose, wet, moderate HC odor, sheen.	135-P3C-X36A-10.0-10.5
12	1.2	0.0	wet	NR		NO RECOVERY	
13				FILL		ASH, some cinders, little fine to medium sand, (10YR 3/1) very dark gray, non plastic, loose, wet, slight HC odor, sheen.	135-P3C-X36A-12.0-12.5
14	1.8	0.0	wet	NR		NO RECOVERY	
15				FILL		ASH, some cinders, some coal, (10YR 4/1) dark gray, non plastic, loose, wet, slight sulfur odor.	135-P3C-X36A-14.0-14.5
16	1.8	0.0	moist	NR		NO RECOVERY	
17				FILL		SILT, little wood fragments, (10YR 2/1) black, low plasticity, soft, moist, slight sulfur odor.	135-P3C-X36A-16.0-16.5
17	1.8	0.0	moist	PT		fine silty SAND, little cinders, little roots, (7.5YR 4/3) brown, non plastic, medium dense, moist, slight sulfur odor.	135-P3C-X36A-16.5-17.0
18				NR		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, medium dense, moist, slight 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 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:	Coordinates (NJSPNAD83) x: 611032.182
Date Started Drilling: 12/2/2014 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682379.051
Date Finished Drilling: 12/2/2014 11:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - X36AR		

(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		ASH, little asphalt, little fine gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-X36AR-0.0-0.5
2		0.0	dry	FILL		fine to medium SAND, little crushed concrete, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
4		0.0	dry	FILL		ASH, some coal, trace debris, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
5							

Comments: 1) 3 attempts were made to obtain best recovery 2) 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: 611024.625
Date Started Drilling: 5/20/2013 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682352.9375
Date Finished Drilling: 5/20/2013 1:45:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - X37A		

(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	3	FILL		fine to medium SAND, some fine gravel, little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist, no odor, no staining.	
2	1.6	0.0	slightly moist	NR 3	NR FILL		NO RECOVERY SILT, with fine sand, little concrete, glass, (7.5YR 5/4) brown, non plastic, soft, slightly moist, no odor, no staining.	
3		0.0	slightly moist	3	FILL		fine to medium SAND, some fine gravel, little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist, no odor, no staining.	
4	2	0.0	slightly moist	NR 3	NR FILL		NO RECOVERY	
5		0.0	slightly moist	3	FILL		fine to medium SAND, some fine gravel, little cinders, coal, wood fragments, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-X37A-5.0-5.5
6	1.5	53.6	moist	6	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
7		0.0	moist	NR 3	NR FILL		ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics, glass, (10YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen.	135-P3C-X37A-7.0-7.5
8	2	0.0	moist	3	FILL		NO RECOVERY	
9							ASH, some fine sand some cinders, coal, wood fragments, little ceramics, glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-X37A-9.0-9.5
10	1.1	0.0	moist	3	FILL		ASH, some fine sand, some cinders, coal, wood fragments, little ceramics, glass, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-X37A-10.5-11.0
11							NO RECOVERY	
12	1.3	0.0	moist	3	FILL		ASH, some fine sand, some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-X37A-12.5-13.0
13							NO RECOVERY	
14	2	0.0	moist	3	FILL		ASH, some fine sand, some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-X37A-14.5-15.0
15							0.0	moist
16	2	0.0	moist	3	FILL		SILT, some fine to coarse sand, little coarse gravel, roots, (5YR 5/2) reddish gray, non plastic, soft, moist, no odor, no staining.	135-P3C-X37A-16.2-16.7
17		2.1	dry	7	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								

PPG - PPG_LOGS_GDT - 6/13/13 18:12

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: Direct Push	Coordinates (NJSPNAD83) x: 611106.149
Date Started Drilling: 4/18/2014	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682438.347
Date Finished Drilling: 6/22/2015	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP,SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - Y33A		

(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		ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no staining	
2		0.0	dry	FILL		ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining	135-P3C-Y33A-1.0-1.5
3							135-P3C-Y33A-3.0-3.5
4							135-P3C-Y33A-4.7-5.2
5	5	0.0		FILL		ASH, little fine to medium sand trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining	
6		0.0	moist	FILL		ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining	135-P3C-Y33A-6.7-7.2
7							135-P3C-Y33A-8.7-9.2
8							135-P3C-Y33A-10.5-11.0
9	5	0.0	slightly moist	FILL		ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, no odor, no staining	
10		0.0	moist	SP		fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-Y33A-12.5-13.0
11							135-P3C-Y33A-14.1-14.6
12		0.0	slightly moist	PT		PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with MM.	135-P3C-Y33A-14.6-15.1
13	5	0.0	moist	OL		UND organic SILT, (80% silt, 20% organic), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	135-P3C-Y33A-15.0-15.5
14							
15							
16							
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 7/9/15 15:40

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: 611091.9375
Date Started Drilling: 5/21/2013 1:10:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682417.75
Date Finished Drilling: 5/21/2013 2:29:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - Y34A		

(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	1.4	0.0	slightly moist	3	FILL		fine to medium SAND, with little fine to medium gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0		3	FILL			
2	1.8	0.0	slightly moist	3	FILL		fine to medium silty SAND, little fine to coarse gravel, little coal, trace brick, (5YR 4/4) reddish brown, non plastic, loose to soft, no odor, no staining.	
							NO RECOVERY	
3	1.8	0.0	slightly moist	3	FILL		fine silty SAND, some fine to coarse gravel, little coal, trace brick, (5YR 3/4) dark reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
							NO RECOVERY	
4	1	0.0	slightly moist	NR	NR		NO RECOVERY	135-P3C-Y34A-4.5-5.0
				3	FILL			
5	1	0.0	slightly moist	NR	NR		fine silty SAND, some fine to coarse gravel, little coal, trace brick, (5YR 3/4) dark reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
				3	FILL			
6	1.4	0.0	moist	3	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-6.5-7.0
							NO RECOVERY	
7	1.4	0.0	moist	3	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-8.5-9.0
							NO RECOVERY	
8	1.2	0.0	moist	3	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-10.5-11.0
							NO RECOVERY	
9	1.2	0.0	moist	3	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-12.5-13.0
							NO RECOVERY	
10	1	0.0	moist	3	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-14.0-14.5
							NO RECOVERY	
11	1	0.0	moist	3	FILL		SILT, some fine to medium sand little, medium gravel, roots, (7.5YR 4/2) brown, low plasticity soft, moist, no odor, no staining.	135-P3C-Y34A-14.5-15.0
							NO RECOVERY	
12	1	0.0	moist	3	FILL		SILT, some fine to medium sand little, fine gravel, roots, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-Y34A-14.5-15.0
							NO RECOVERY	
13	2	0.0	moist	3	FILL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-Y34A-14.5-15.0
		2.6	dry	7	PT			
14	2	1.1	moist	9	MH		UNDno SILT, with roots little organics, (10YR 4/2) dark grayish brown, 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 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: 611175.75
Date Started Drilling: 5/22/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.4375
Date Finished Drilling: 5/22/2013 10:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - Z30A		

(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	slightly moist	2	ASPHALT		ASPHALT, weathered fragments and sub-base, (10YR 2/1) black, non plastic, loose, slightly moist.	
		0.0	slightly moist	3	FILL		fine to coarse SAND, some gravel, some weathered asphalt, (10YR 2/1) black, non plastic, loose, slightly moist.	
2	2	155	slightly moist	3	FILL		fine silty SAND, some rock fragments, little cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist, moderate petroleum odor.	
		662	slightly moist	3	FILL		fine to medium silty SAND, some gravel, little ash, little cinders, trace glass, trace coal, (10YR 2/1) black, non plastic, medium dense, moist, strong petroleum odor.	
5	1.6	825	wet	3	FILL		ASH, some cinders, little sand, little gravel, (10YR 3/1) very dark gray, non plastic, medium dense, wet, strong petroleum odor.	
		792	wet	3	FILL		ASH, some cinders, little glass fragments, little coal, (10YR 2/1) black, non plastic, loose, wet, strong petroleum odor, sheen.	135-P3C-Z30A-5.0-5.5
6	1.2	105	wet	NR	NR		NO RECOVERY	
				3	FILL		some ash, little glass fragments, little brick, little ceramics, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, strong petroleum odor.	135-P3C-Z30A-6.5-7.0
8	1	90.8	wet	3	FILL		NO RECOVERY	
				NR	NR		CINDERS, some ash, little gravel, little ceramics, little glass, (10YR 3/1) very dark gray, non plastic, loose, wet, strong petroleum odor, sheen.	135-P3C-Z30A-8.5-9.0
10	1.4	37.4	wet	3	FILL		ASH, some cinders, little ceramics, little wood, little glass, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor, sheen.	
				NR	NR		NO RECOVERY	135-P3C-Z30A-10.5-11.0
12	1.2	42.5	wet	3	FILL		ASH, some cinders, little glass fragments, little ceramics, trace shells, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor.	
				NR	NR		NO RECOVERY	135-P3C-Z30A-12.5-13.0
15	2	82.7	wet	3	FILL		CINDERS, some ash, little glass fragments, trace brick, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor.	
		50.0	moist	3	FILL		SILT, some ash, little cinders, little roots, (10YR 2/1) black, medium plasticity, soft, moist, slight petroleum odor.	135-P3C-Z30A-14.5-15.0
16	1.6	55.6	moist	3	FILL		NO RECOVERY	
		143	moist	7	PT		fine silty SAND, little cinders, little roots, trace brick, (10YR 4/2) dark grayish brown, non plastic, loose, moist, slight petroleum odor.	135-P3C-Z30A-15.4-15.9
17	1.6	120	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, non plastic, loose, moist. Soils consistent with MM.	
				NR	NR		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.	135-P3C-Z30A-15.9-16.4
18				NR	NR		NO RECOVERY	

PPG - PPG_LOGS_GDT - 6/13/13 18:12

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: 611160.25
Date Started Drilling: 5/21/2013 11:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682481.625
Date Finished Drilling: 5/21/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - Z31A		

(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, weathered fragments and sub base, (10YR 2/1) black, non plastic, dense, slightly moist.	
		0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, trace brick, trace coal, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist.	
2-3	2	0.0	moist	FILL		fine to medium silty SAND, some gravel, trace coal, trace wood, trace plastic, (10YR 3/3) dark brown, non plastic, loose, moist.	
		0.0	moist	FILL		ASH, some cinders, little gravel, trace metal, (10YR 4/1) dark gray, non plastic, loose, moist.	
4-5	1.5	14.4	wet	FILL		ASH, some cinders, little coal, little gravel, trace fill material, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor, sheen.	
				NR		NO RECOVERY	135-P3C-Z31A-5.0-5.5
6				NR		NO RECOVERY	135-P3C-Z31A-5.0-5.5
7	1	2.3	wet	FILL		ASH, some cinders, little glass fragments, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor, sheen.	
				NR		NO RECOVERY	135-P3C-Z31A-6.5-7.0
8-9	1.8	0.0	wet	FILL		ASH, some cinders, little glass fragments, little gravel, trace fill material, (10YR 3/1) very dark gray, non plastic, loose, wet, slight petroleum odor, sheen.	
				NR		NO RECOVERY	135-P3C-Z31A-8.5-9.0
10-11	1.3	0.0	wet	NR		NO RECOVERY	
				FILL		fine to medium CINDERS, little ash, little glass fragments, little gravel, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor.	135-P3C-Z31A-10.5-11.0
12				NR		NO RECOVERY	
				FILL		fine to medium CINDERS, little ash, little gravel, little coal, (10YR 2/1) black, non plastic, loose, wet.	
13	1.1	0.0	wet	FILL		SILT, little ash, little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet.	
		0.0	wet	FILL		NO RECOVERY	135-P3C-Z31A-12.5-13.0
14-15	2	0.0	wet	FILL		SILT, little ash, little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet.	
		0.0	wet	FILL		fine to medium silty SAND, some gravel, little cinders, (5YR 4/3) reddish brown, non plastic, loose, wet.	135-P3C-Z31A-14.5-15.0
15		17.2	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	135-P3C-Z31A-15.0-15.5
16							

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: Direct Push	Coordinates (NJSPNAD83) x: 610791.3
Date Started Drilling: 9/26/2016 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682115.7
Date Finished Drilling: 9/26/2016 10:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 8.5
Physical Location: ACTUAL - Smith Supplemental PDI		Surface Elevation: 14.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0.0				CONCRETE		Concrete floor slab	
1	3.5	0.0	moist	FILL		fine to coarse SAND, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining.	ASM-T47AR2-1.0-1.5
2			CONCRETE		Concrete slab		
3			dry	FILL		fine to medium SAND, some fine to medium gravel, (5Y 5/1) gray, medium dense, dry, no odor, no staining.	ASM-T47AR2-3.0-3.5
4			dry	FILL			
5	5	0.0		NR		fine to medium SAND, some ash, trace fine gravel, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	
5			dry	FILL		fine to medium SAND, little fill debris, trace silt, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	ASM-T47AR2-5.0-5.5
6			wet	FILL			
7			wet	FILL		CINDERS, some silty sand, trace fill debris, (5YR 2.5/1) black, loose, wet, no odor, no staining, water at 8.5 feet.	ASM-T47AR2-7.0-7.5
8	4.5	0.0				fine to medium SAND, trace ash, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining.	ASM-T47AR2-9.0-9.5
9			wet	FILL			
10			wet	FILL		ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-T47AR2-11.0-11.5
11							
12	wet	FILL		fine silty SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	ASM-T47AR2-13.0-13.5		
13	dry	PT					
14				NR		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.	ASM-T47AR2-13.5-14.0
15				NR		NO RECOVERY	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

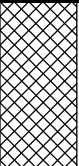
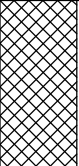



Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610910.8
Date Started Drilling: 11/4/2016 9:00:00 AM	Rig Type: 420 Geoprobe	Coordinates (NJSPNAD83) y: 682257.8
Date Finished Drilling: 11/4/2016 8:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Actual - Smith PDI		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-3	5	0.0		CONCRETE		Concrete slab	
			dry	FILL		fine to medium SAND, little ash, (7.5YR 2.5/3) very dark brown, medium dense, dry, no odor, no staining.	
			dry	FILL		ASH, little fine to medium sand, (5Y 5/1) gray, loose, dry, no odor, no staining.	
5-9	4	0.0	wet	FILL		fine to medium SAND, little ash, (7.5YR 3/3) dark brown, medium dense, wet, no odor, no staining, water at 6.0 feet.	
			wet	FILL		ASH, little fill debris, (5Y 4/1) dark gray, loose, wet, no odor, no staining.	
				NR		NO RECOVERY	
10-14	4	0.0	wet	FILL		ASH, little fill debris, (5Y 4/1) dark gray, loose, wet, no odor, no staining.	ASM-T48AR2-12.0-12.5
			wet	SP		fine to medium SAND, some fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	ASM-T48AR2-12.5-13.0
			slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, slightly moist, slight organic odor, no staining. Soils consistent with MM.	
15			wet	OL		Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/3) brown, soft, wet, no odor, no staining. Soils consistent with UNDorg.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: Direct Push	Coordinates (NJSPNAD83) x: 610770.6
Date Started Drilling: 11/4/2016 10:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682104.7
Date Finished Drilling: 11/4/2016 9:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Smith PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	307	dry	FILL		fine to medium SAND, some ash, (7.5YR 3/3) dark brown, medium dense, dry, moderate fuel oil-like odor, no staining.		
2-3			dry to wet	FILL		ASH, some fine to medium sand, (5Y 5/1) gray, loose, dry to wet, moderate fuel oil like-odor and staining, water at 4.0 feet.		
4-5	5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fuel oil-like odor and staining.		
6-8			wet	FILL		fine to medium SAND, some ash, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-V41AR-8.0-8.5	
9-10	4.5	2.0					ASM-V41AR-10.0-10.5	
11-12			wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-V41AR-12.0-12.5	
13								ASM-V41AR-13.0-13.5
14			dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.	ASM-V41AR-13.5-14.0
15				NR		NO RECOVERY		

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: Direct Push	Coordinates (NJSPNAD83) x: 610908.7
Date Started Drilling: 9/27/2016 9:45:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682227
Date Finished Drilling: 9/27/2016 11:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 18 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 9.0
Physical Location: ACTUAL - Smith Supplemental PDI		Surface Elevation: 14.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	1	0.0		1	CONCRETE		Concrete floor slab		
				3	NR		VOID SPACE		
2	4	0.0	dry	3	FILL		fine to coarse GRAVEL and concrete, (5Y 5/1) gray, loose, dry, no odor, no staining.	ASM-V42AR2-2.0-2.5	
3			dry	3	FILL			ASM-V42AR2-4.0-4.5	
4			dry	3	FILL			ASH, some fine sand, little coal, (5Y 4/1) dark gray, medium dense, dry, slight fuel oil-like odor, no staining.	ASM-V42AR2-6.0-6.5
5	4	0.3		3	FILL		CINDERS and ASH, (5Y 2.5/2) black, loose, dry, no odor, no staining.	ASM-V42AR2-8.0-8.5	
6			dry	3	FILL			ASH, some fine to medium sand, (5Y 5/1) gray, loose, wet, no odor, no staining, water at 9.0 feet.	ASM-V42AR2-10.0-10.5
7			wet	3	FILL			fine silty SAND, little fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet, moderate fuel oil-like odor, product staining.	ASM-V42AR2-12.0-12.5
8	4	85.5		3	FILL		fine silty SAND, little fill debris, trace fine gravel, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining.	ASM-V42AR2-14.0-14.5	
9			wet	3	FILL			fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-15.0-15.5
10			dry	7	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.
11	4	0.0		3	FILL		fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-16.0-16.0	
12			wet	3	FILL			fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-17.0-17.0
13			dry	7	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.
14	4	0.0		3	FILL		fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-18.0-18.0	
15			wet	3	FILL			fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-19.0-19.0
16			dry	7	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.
17	4	0.0		3	FILL		fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-20.0-20.0	
18			wet	3	FILL			fine silty SAND, little fine gravel, trace wood, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	ASM-V42AR2-21.0-21.0
19			dry	7	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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 Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611293.13
Date Started Drilling: 4/28/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682670.28
Date Finished Drilling: 4/28/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/23 ft
Physical Location: Indoor boring		

(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	moist	1	Fill		Concrete	EF-B15_0.5	
2		0		3			Dark Brown (7.5YR 3/3) fine to medium SAND, some Silt and fine to coarse angular Gravel, little Fill Material (ash, cinders, glass, coal), moist, loose. No odor.		EF-B15_2.0
3		0							EF-B15_4.0
4		0							
5		0							EF-B15_5.0
6	0.3			6	Fill		Black CINDERS and ASH, wet, loose. No odor.		
7				Fill	No Recovery				
8									
9									
10		0						EF-B15_10.0	
11	0.2			6	Fill		Same as above.		
12				Fill	No Recovery				
13									
14									
15			0						
16	2.5	0	moist	7	PT		Reddish Brown (2.5YR 3/4) PEAT, Organics, moist, medium. Sulfur odor.		
17			0					EF-B15_17.0	
18							PT	No Recovery	
19									
20		0							
21	4	15.3	moist	7	OH		Gray (10YR 4/1) Organic SILTY CLAY, semi-cohesive, moist, stiff. Sulfur odor.		
22			17.8					EF-B15_22.0	
23			0						
24				wet	8		SM	Gray (Gley1 6/0) very fine SAND and SILT, wet, loose. Sulfur odor.	
25					SM	No Recovery			
26							End of boring at 25 ft.		
27									
28									
29									
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31									
32									
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34									
35									

Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 11/3/11 14:35 - \\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: 610982.89
Date Started Drilling: 5/6/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682432.96
Date Finished Drilling: 5/6/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6 ft
Physical Location: Indoor boring on Halladay Street		

(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 4B	Fill		Concrete	EF-B23_0.5
2		0					Dark Brown (7.5YR 3/2) fine to coarse SAND, some fine to medium angular Gravel and Fill Material (ash, cinder), little COPR (15%), loose, dry. No odor.	EF-B23_2.0
3		10.1	dry	4B	Fill		Brown (7.5YR 4/3) fine to coarse SAND and COPR (60%), little Silt, little fine to medium Gravel, loose, dry. No odor.	
4		10.1	dry moist	3 3	Fill Fill		Red Brick and Mortar (Foundation)	EF-B23_4.0
5	2	3.6					Very Dark Brown (7.5YR 2.5/2) SILT and fine SAND, some medium angular Gravel and Fill Material (concrete, coal, ash, cinder), medium dense, moist. Petroleum odor.	EF-B23_4.0X
6		16.1					Same as above, Oil/Water mix, loose, wet. Coal tar odor.	EF-B23_6.0
7	2		wet	3	Fill		Water is Yellow.	
8					Fill		No Recovery	
9								
10		0.6					Black-stained medium angular GRAVEL, little Coal and Slag, loose, wet. Oil/Water mix with blebs of reddish-brown viscous oil, strong coal tar odor.	EF-B23_10.0
11			wet wet	6	Fill Fill		Black-stained very fine SAND, loose, wet. Oil/Water mix, strong coal tar odor.	
12	0.3						No Recovery	
13								
14								
15		0.2					Black-stained very fine SAND, loose, wet. Oil/Water mix, strong coal tar odor.	EF-B23_15.0
16			wet	6	Fill Fill		Black-stained very fine SAND, loose, wet. Oil/Water mix, strong coal tar odor.	
17	0.1						No Recovery	
18								
19								
20		0.7					Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B23_20.0
21			moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	
22	1		moist	8	SP SP		Gray (Gley1 6/0) very fine SAND, trace medium angular Gravel, medium dense, moist. Sulfur odor.	
23							No Recovery	
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
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35								

Comments: COPR identified from 0.5 - 2.8 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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610805.583
Date Started Drilling: 9/10/2014 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682324.715
Date Finished Drilling: 9/10/2014 11:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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		ASPHALT		ASPHALT	
		0.0	sl moist to moist	FILL		silty SAND, trace gravel, (2.5YR 4/4) reddish brown, low plasticity, medium dense, slightly moist to moist, no odor.	P4-HAL-R41-0.5-1.0
2	5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		ASH, trace coal, trace wood fragments, trace gravel, trace GGM, (10YR 3/1) very dark gray, non plastic, medium dense, dry, no odor.	P4-HAL-R41-2.5-3.0
3	5	0.0	dry	FILL		fine to coarse SAND, trace coal, trace fine to medium gravel, (2.5Y 4/1) dark gray, non plastic, loose, dry, no odor.	P4-HAL-R41-4.5-5.0
		0.0	dry	FILL			
4	5	0.0	slightly moist	FILL		silty SAND, trace gravel, (5Y 3/1) very dark gray, low plasticity, medium dense, slightly moist, no odor.	P4-HAL-R41-6.5-7.0
		0.0	dry to sl moist	FILL		CINDERS, trace coal, trace wood fragments, trace ceramics, (10YR 4/1) dark gray, non plastic, loose to medium dense, dry to slightly moist, no odor.	P4-HAL-R41-8.5-9.0
5	5	0.0	dry to sl moist	FILL		CINDERS, trace gravel, trace ash, (2.5Y 4/1) dark gray, non plastic, loose, dry to slightly moist, no odor.	P4-HAL-R41-10.5-11.0
		0.0	dry to sl moist	FILL		CINDERS, trace coal, trace wood fragments, trace gravel, trace ash, (10YR 4/1) dark gray, non plastic, loose, moist, no odor.	P4-HAL-R41-12.5-13.0
6	5	0.0	moist to wet	FILL		fine to medium silty SAND, trace gravel, trace brick, trace ash, (5YR 3/3) dark reddish brown, low plasticity, medium dense, moist to wet.	P4-HAL-R41-14.5-15.0
		0.0	moist	FILL		silty SAND, trace gravel, (10YR 4/2) dark grayish brown, low plasticity, medium dense, moist, no odor.	P4-HAL-R41-15.0-15.5
7	5	0.0	slightly moist	PT		PEAT (degraded vegetated material), 70% organic matter, 30% organic silt, slightly moist, moderate organic odor. Soils consistent with MM.	P4-HAL-R41-15.5-16.0
		0.0	moist	OL		UNorg SILT, 70% organic silt, 30% organic fibers, (7.5R 3/1) dark reddish gray, (7.5YR 3/1) very dark gray, low plasticity, medium dense, moist, moderate organic odor. Soils consistent with UNDno.	
8							
9							
10							
11							
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18							
19							
20							

PPG - PPG_LOGS_GDT - 11/17/14 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610875.524
Date Started Drilling: 9/17/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682388.915
Date Finished Drilling: 9/17/2014 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		


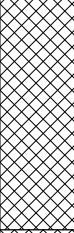
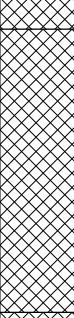
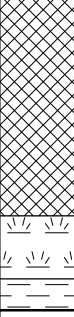


(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1	5	0.0		ASPHALT		ASPHALT	P4-HAL-S38A-0.5-1.0
1 - 2	5	0.0	dry to sl moist	FILL		fine to coarse SAND, trace gravel (10% COPR), (2.5YR 3/4) dark reddish brown, non plastic, loose to medium dense, dry to slightly moist, no odor.	
2 - 3	5	0.0	slightly moist	FILL		GGM, some sand, trace gravel, (10Y 4/2) dark grayish olive, non plastic, soft to medium dense, slightly moist, no odor.	
3 - 5	5	0.0	moist	FILL		GGM, some sand, trace wood fragments, trace gravel, (10Y 6/4) pale olive, non plastic, soft, moist, no odor.	
5 - 10	5	0.0	slightly moist	FILL		ASH, (10YR 2/1) black, non plastic, loose to medium dense, slightly moist, no odor.	P4-HAL-S38A-9.5-10.0
10 - 11	5	0.0	saturated to wet	FILL		fine to medium SAND, trace gravel, (10YR 2/2) very dark brown, non plastic, loose, saturated to wet, no odor.	
11 - 12	5	0.0	moist saturated to wet	FILL		silty SAND, trace gravel, (10YR 2/2) very dark brown, low plasticity, medium dense, moist, no odor.	P4-HAL-S38A-11.5-12.0
12 - 13	5	0.0	saturated to wet	FILL		fine to medium SAND, trace gravel, (10YR 2/2) very dark brown, non plastic, medium dense, saturated to wet, no odor.	
13 - 14	5	0.0	saturated to wet	FILL		silty SAND, trace gravel, (10YR 2/2) very dark brown, low plasticity, medium dense, saturated to wet, no odor.	P4-HAL-S38A-13.5-14.0
14 - 15	5	0.0	moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, moist, moderate organic odor. Soils consistent with peat.	P4-HAL-S38A-14.0-14.5

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 610870.231
Date Started Drilling: 10/7/2014 10:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682364.937
Date Finished Drilling: 10/7/2014 10:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		














(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		ASPHALT		ASPHALT			
		0.0	dry	FILL		fine to coarse SAND, little fine to medium gravel, (10YR 7/1) light gray, loose, dry, no odor, green staining.	P4-HAL-S39A-0.5-1.0		
2	5						P4-HAL-S39A-2.5-3.0		
3							P4-HAL-S39A-4.5-5.0		
4									
5	5	0.0	slightly moist	FILL		fine to medium SAND, little medium gravel, (10YR 7/1) light gray, loose, slightly moist, no odor, no staining.			
6		0.0	moist to wet	FILL			ASH, little fine to medium sand, little brick, trace debris, (10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining.	P4-HAL-S39A-6.5-7.0	
7									
8									
9	5					fine to medium silty SAND, little fine gravel, trace fibers, (7.5YR 4/6) strong brown, loose, wet, no odor, no staining.			
10								P4-HAL-S39A-10.5-11.0	
11									
12									
13									
14	5	0.0	moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/4) dark brown, medium stiff, moist, slight organic odor, no staining. Soils consistent with MM.	P4-HAL-S39A-12.5-13.0		
13.5								P4-HAL-S39A-13.0-13.5	
15		0.0	moist	OL		UND organic SILT, 70% organic silt, 30% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	P4-HAL-S39A-13.5-14.0		

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: 610933.671
Date Started Drilling: 10/7/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682426.402
Date Finished Drilling: 10/7/2014 9:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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		ASPHALT		ASPHALT	P4-HAL-T36A-0.5-1.0
		0.0	dry	FILL		COPR, trace gravel, trace fine to medium sand, (5YR 3/3) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		ASH, trace glass, trace coal, trace metal fragments, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	
2						GGM, (10Y 6/2) light grayish olive, non plastic, soft, dry, no odor, green staining.	
3		0.0	dry	FILL			
4							
5	4	66.9	wet	FILL		ASH, trace fine to medium sand, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose to soft, wet, moderate petroleum odor, sheen.	P4-HAL-T36A-5.0-5.5
6		0.3	wet	FILL		GGM, trace gravel, (2.5Y 6/6) olive yellow, non plastic, loose to soft, wet, no odor, green staining.	
7		12.0	moist	FILL		ASH, trace wood fragments, trace gravel, (10YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	P4-HAL-T36A-7.0-7.5
8							
9				NR		NO RECOVERY	P4-HAL-T36A-9.0-9.5
10	4	0.0	saturated	FILL		fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 2/2) very dark brown, non plastic, soft, saturated, no odor, sheen.	P4-HAL-T36A-11.0-11.5
11		0.0	moist	FILL		ASH, trace chrome stained gravel, trace debris, (10Y 6/2) light grayish olive, non plastic, loose, moist, no odor, green staining.	
12		0.0	moist	FILL		SILT, trace fine sand, trace wood fragments, (10YR 2/1) black, low plasticity, soft, moist, no odor, no staining.	P4-HAL-T36A-13.0-13.5
13				NR		NO RECOVERY	
14							
15	5	0.0	moist	FILL		fine to medium silty SAND, trace wood fragments, (10YR 2/1) black, low plasticity, soft, moist, no odor, no staining.	P4-HAL-T36A-15.0-15.5
16		0.0	moist	FILL		fine to medium SAND, trace gravel, (7.5YR 4/3) brown, non plastic, medium dense, moist, no odor, no staining.	P4-HAL-T36A-17.0-17.5
17		0.0	moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate organic odor, no staining. Soils consistent with MM.	P4-HAL-T36A-17.5-18.0
18							
19							
20							

PPG - PPG_LOGS_GDT - 11/17/14 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611001.036
Date Started Drilling: 9/29/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682493.676
Date Finished Drilling: 9/29/2014 10:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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	5	65.0	dry	FILL		ASH, trace coal, trace gravel, trace wood fragments, (10YR 2/1) black, non plastic, loose, dry, no odor.	P4-HAL-U33A-1.0-1.5	
2							P4-HAL-U33A-3.0-3.5	
3								
4								
5	5	1162.0	dry	FILL		fine to medium SAND, trace ash, (10YR 2/1) black, non plastic, loose, dry, slight petroleum odor.	P4-HAL-U33A-5.0-5.5	
6		1900.0	saturated to wet	FILL			CINDERS, trace gravel, trace wood fragments, trace debris, (10YR 5/1) gray, non plastic, loose, saturated to wet, slight petroleum odor, PID readings ranged from 23.0 ppm to 1900.0 ppm; between 5ft and 6ft the max PID reading was 1960.0 ppm.	P4-HAL-U33A-7.0-7.5
7								
8								
9								
10	5	3.1	saturated to wet	FILL		CINDERS, trace gravel, trace debris, trace metals, trace wood fragments, (10YR 5/1) gray, non plastic, loose, saturated to wet, no odor.	P4-HAL-U33A-11.0-11.5	
11								
12								
13								
14		3.0	moist	FILL		fine to medium silty SAND, trace wood fragments, trace gravel, (10YR 3/3) dark brown, low plasticity, soft to medium dense, moist, no odor.		
15								
16	5	0.0	moist	FILL		fine to medium silty SAND, (10YR 3/4) dark yellowish brown, low plasticity, medium dense, moist, no odor.	P4-HAL-U33A-15.0-15.5	
17								P4-HAL-U33A-16.5-17.0
18		0.0	moist	PT				PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate organic odor. Soils consistent with MM.
19								
20								

PPG - PPG_LOGS.GDT - 11/17/14 10:21

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: 610058.1
Date Started Drilling: 10/8/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682561.882
Date Finished Drilling: 10/8/2014 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(Note bgs = below ground surface)

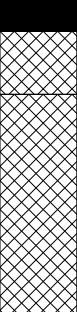
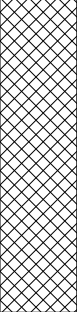
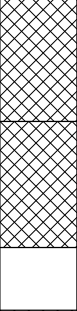

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		0.0	dry	FILL		ASH, trace coal, trace gravel, (10YR 2/1) black, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace wood fragments, trace gravel, trace coal, (10YR 3/4) dark yellowish brown, non plastic, loose, dry, no odor, no staining. GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining.	P4-HAL-V30A-2.0-2.5
3		0.0	dry	FILL			
4	0.0	moist	FILL				
5	5	0.0	moist	FILL		GGM, (10Y 4/4) olive, non plastic, soft, moist, no odor, green staining.	
6							
7							
8							
9		0.0	moist	FILL		ASH, trace gravel, trace glass, trace wood fragments, (10YR 5/1) gray, non plastic, loose, moist, no odor, no staining. ASH, some fine to medium sand, trace wood fragments, trace gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, saturated, no odor, no staining.	P4-HAL-V30A-9.0-9.5
10	0.0	saturated	FILL				
11							
12	5					fine to medium silty SAND, trace gravel, (10YR 4/2) dark grayish brown, non plastic, soft, saturated, no odor, no staining.	P4-HAL-V30A-11.0-11.5
13							
14		0.0	saturated	FILL			
15	5	0.0	moist to saturated	FILL		fine to medium silty SAND, trace gravel, trace organics, (10YR 3/3) dark brown, low plasticity, soft to medium dense, moist to saturated, no odor, no staining.	P4-HAL-V30A-15.0-15.5
16							
17							
18		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, trace shells, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	P4-HAL-V30A-17.0-17.5
19							
20							

PPG - PPG_LOGS.GDT - 11/17/14 10:21

Comments: 1) 3 attempts were made to obtain best recovery 2) UND/MM 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: 611055.815
Date Started Drilling: 10/3/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682537.678
Date Finished Drilling: 10/3/2014 9:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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	5	0.0	dry to sl	FILL		fine to medium SAND, little ash, trace gravel, trace coal, (10YR 3/1) very dark gray, non plastic, loose, dry to slightly moist, no odor, no staining.	P4-HAL-V31A-0.5-1.0	
2		0.0	moist slightly moist	FILL			ASH, trace gravel, trace fine to medium sand, trace ceramics, trace glass, trace debris, (10YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	P4-HAL-V31A-2.5-3.0
3								
4							P4-HAL-V31A-4.5-5.0	
5	5	0.0	moist to wet	FILL		ASH, trace gravel, trace fine to medium sand, trace debris, trace wood fragments, (10YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	P4-HAL-V31A-6.5-7.0	
6								
7								
8							P4-HAL-V31A-8.5-9.0	
9								
10	4	0.0	moist to wet	FILL		ASH, trace gravel, trace fine to medium sand, trace debris, trace glass, (10YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	P4-HAL-V31A-10.5-11.0	
11								
12		0.0	wet	FILL			fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/4) dark yellowish brown, non plastic, soft, wet, no odor, no staining.	P4-HAL-V31A-12.5-13.0
13								
14				NR		NO RECOVERY		
15	5	0.0	moist	FILL		fine to medium silty SAND, trace fine to coarse gravel, (10YR 3/6) dark yellowish brown, low plasticity, medium dense, moist, no odor, no staining.	P4-HAL-V31A-15.0-15.5	
16								
17		0.0	slightly moist	OL			UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 2/2) very dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	P4-HAL-V31A-16.0-16.5
18								
19								
20								

PPG - PPG_LOGS.GDT - 11/17/14 10:21

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: 611189.127
Date Started Drilling: 9/29/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682667.276
Date Finished Drilling: 9/29/2014 11:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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	5	0.0	dry	FILL		fine to medium SAND, some ash, trace brick, (7.5YR 4/3) brown, loose, dry, no odor, no staining. CINDERS, little fine gravel, trace coal, trace wood fragments, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining.	P4-HAL-X25A-0.5-1.0	
2		0.0	moist to wet	FILL			P4-HAL-X25A-2.5-3.0	
3								
4								
5	5	0.0	wet	FILL		fine to medium SAND, some ash, trace fine gravel, (7.5YR 4/3) brown, loose, wet, no odor, no staining.	P4-HAL-X25A-4.5-5.0	
6								
7								
8								
9								
10	5	0.0	moist	FILL		fine to medium SAND, little medium gravel, (7.5YR 4/2) brown, loose, moist, moderate petroleum odor, no staining.	P4-HAL-X25A-10.5-11.0	
11		25.0	moist	FILL			SILT, little organic fibers, trace wood fragments, (10YR 2/1) black, low plasticity, soft, moist, strong petroleum odor, hydrocarbon staining.	
12		36.0	saturated	FILL			fine to medium silty SAND, trace fine to medium gravel, trace organic fibers, (7.5YR 4/2) brown, loose, saturated, strong petroleum odor, sheen.	P4-HAL-X25A-12.5-13.0
13								
14		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, medium stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	P4-HAL-X25A-13.5-14.0 P4-HAL-X25A-14.0-14.5	
15								

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.



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: 611290.459
Date Started Drilling: 9/22/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682758.699
Date Finished Drilling: 9/22/2014 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		

(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	5	0.0	slightly moist	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray, non plastic, loose, slightly moist, no odor.	P4-HAL-Z21A-0.5-1.0		
2							P4-HAL-Z21A-2.5-3.0		
3							P4-HAL-Z21A-4.5-5.0		
4									
5	5	0.0	saturated	FILL		ASH, trace coal, trace wood fragments, trace gravel, (10YR 5/1) gray, non plastic, loose, saturated, no odor.	P4-HAL-Z21A-6.5-7.0		
6							P4-HAL-Z21A-8.5-9.0		
7									
8									
9	5	0.0	saturated	FILL		ASH, trace gravel, trace coal, trace wood fragments, (10YR 5/1) gray, non plastic, loose, saturated, no odor.	P4-HAL-Z21A-10.5-11.0		
10									
11		0.0	saturated to wet	FILL				fine to medium SAND, trace gravel, trace wood fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor.	P4-HAL-Z21A-12.5-13.0
12									
13	5	0.0	saturated to wet	FILL		fine to medium SAND, trace gravel, trace wood fragments, (5YR 4/4) reddish brown, non plastic, medium dense, saturated to wet, no odor.	P4-HAL-Z21A-14.5-15.0		
14									
15									
16									
17	5	0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 2/2) very dark brown, slightly moist, strong organic odor. Soils consistent with MM.	P4-HAL-Z21A-16.5-17.0		
18									
19									
20									

PPG - PPG_LOGS.GDT - 11/17/14 10:21

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.

LOG OF SOIL BORING SB-42

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.26		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/17/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/17/06		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		COMPLETION DEPTH (FT BGS) 24		NO. SAMPLES 10	
CASING N/A		SIZE AND TYPE CORE BARREL N/A		DIST. 4	
CASING HAMMER WEIGHT N/A		DROP N/A		UNDIST. N/A	
SAMPLER 2" diameter, 2' long split-spoon		BORING LOCATION: Eastern shoulder of Halladay Street, 213 ft SW from the southern corner of the Halladay Street / Carteret Avenue intersection.		CORE N/A	
SAMPLER HAMMER WEIGHT 140 lbs.		DROP 30"		COMPL. N/A	
		INSPECTOR Eric Gaulin		24HR N/A	

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 fluffy ash, with particles resembling shell fragments, some brick fragments	- 0 -												
	- 1 -												
	- 2 -												
	- 3 -												
	- 4 -												
	4.0-4.1 FILL: grayish brown silt												
	4.1-4.2 FILL: bright green/yellow/gray silty sand, suspected COPR												
	4.2-6.7 FILL: black gravel and clinker material (CM), trace ash material (AM)												
	6.7-7.2 FILL: COPR												
	7.2-8.5 FILL: Clinkers, gravel, AM												
8.5-9.1 FILL: Gravel and COPR													
9.1-10.0 FILL: COPR and AM													
	- 10 -												

LOG OF SOIL BORING SB-42

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.26		PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.		FOREMAN Roger Logel		DATE COMPLETED 11/17/06	
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		DATE STARTED 11/17/06		ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger		COMPLETION DEPTH (FT BGS) 24		ROCK DEPTH (FT) not encountered	
CASING N/A		NO. SAMPLES 10		DIST. 10	
CASING HAMMER WEIGHT N/A		SIZE AND TYPE CORE BARREL N/A		UNDIST. N/A	
SAMPLER 2" diameter, 2' long split-spoon		WATER DEPTH FIRST 4		COMPL. N/A	
SAMPLER HAMMER WEIGHT 140 lbs.		DROP N/A		BORING LOCATION: Eastern shoulder of Halladay Street, 213 ft SW from the southern corner of the Halladay Street / Carteret Avenue intersection.	
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	
10.0-12.7 FILL: ash and gravel, coal fragments, with some greenish color noted	- 10 -		4	1.2	4	1106	0.0	0.0	1106	N/A	N/A	No odors this spoon
	- -				2		0.0	0.0				
	- 11 -				2		0.0	0.0				
	- -				2							
12.7-12.8 FILL: reddish brown silty sand, black staining, exhibiting oil-like odors	- 12 -		5	1.3	2	1110	0.0	0.0	1110	N/A	N/A	Sample SB-42(12.75-13.25) collected at 1124 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
	- -				2		0.0	0.0				
12.8-14.0 Reddish brown (2.5YR4/4) fine to medium SILTY SAND (SM), trace clay, no staining, or odors	- 13 -				2		0.0	0.0				
	- -				2							
14.0-14.5 Brown fibrous PEAT (PT)	- 14 -		6	1.2	3	1117	0.0	0.0	1117	N/A	N/A	Anaerobic odors
	- -				2		0.0	0.0				
14.5-16.0 Very dark greenish gray (GLE Y1 3/1 10Y) organic CLAY (OH), with 10% peat fragments	- 15 -				1		0.0	0.0				
	- -				2							
16.0-18.0 Same as above (SAA) becoming firmer, no peat fragments	- 16 -		7	1.7	2	1120	0.0	0.0	1120	N/A	N/A	Sample SB-42(17.0-17.5) collected at 1129 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
	- -				1		1.0	0.0				
	- 17 -				2		1.3	0.0				
	- -				2		0.9	0.0				
18.0-23.5 SAA with trace of silt	- 18 -		8	2.0	1	1131	0.0	0.0	1131	N/A	N/A	
	- -				1		0.0	0.0				
	- 19 -				1		0.0	0.0				
	- -				1		0.0	0.0				
	- 20 -											

LOG OF SOIL BORING SB-42

PROJECT LOCATION Halladay Street , Jersey City, NJ		GROUND ELEVATION (FT. MSL) 13.26	PROJECT NUMBER 020667601
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Roger Logel	DATE STARTED 11/17/06	DATE COMPLETED 11/17/06
DRILLING EQUIPMENT GEFCO SS 5 Drill Rig turning 4.25-inch hollow-stem augers		COMPLETION DEPTH (FT BGS) 24	ROCK DEPTH (FT) not encountered
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 10	DIST. 10
CASING N/A	WATER DEPTH N/A	FIRST 4	COMPL. N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: Eastern shoulder of Halladay Street, 213 ft SW from the southern corner of the Halladay Street / Carteret Avenue 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. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
18.0-23.5 SAA with trace of silt	- 20 -		9	1.0	1	1138	0.0	0.0	1138	N/A	N/A	
	- 21 -				1		0.5	0.0				
	- 22 -		10	2.0	1	1142	0.0	0.0	1142	N/A	N/A	Sample SB-42(23.5-24.0) collected at 1143 for TCL SVOC, TCL VOC, TAL Metals, Total and Amenable CN
23.5-24.0 Dark gray (GLEY 1 4/N) fine SAND (SP), with silt	- 23 -				2		0.0	0.0				
	- 24 -				3		0.0	0.0				
END OF BORING @ 24'	- 25 -											
	- 26 -											
	- 27 -											
	- 28 -											
	- 29 -											
	- 30 -											



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: T46AR/ MW2C-SA

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610803.9
Date Started Drilling: 7/14/2014 2:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682154.8
Date Finished Drilling: 7/14/2014 2:25:00 PM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: RK	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Smith Alley		

(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 3 4 5	5	2.7	moist	3	FILL		fine to coarse SAND, little gravel, little ash, cinders, trace wood, trace glass, (7.5YR 4/3) brown, loose, moist, no odor, no staining.	133-MW2C-SA-0.5-1.0
		9.4	moist	3	FILL		ASH, and cinders, little fine to medium sand, trace coal slag, trace gravel, (7.5YR 3/1) very dark gray, loose, moist, slight petroleum odor, no staining.	133-MW2C-SA-2.5-3.0
		420.0	wet	3	FILL		ASH, and cinders, trace brick, trace coal slag, trace metals, (7.5YR 4/1) dark gray, loose, wet, moderate petroleum odor, no staining.	133-MW2C-SA-4.5-5.0


PPG - PPG_LOGS_GDT - 7/23/14 13:34





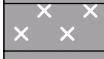



Comments: 1) 3 attempts were made to obtain best recovery 2) No COPR or GGM present in any interval of this boring.

Appendix I-2

Site 135 North

Boring logs for the remaining sample locations in Site 135 North 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.

	Client: PPG Industries	BORING ID: 135-B1			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 1 of 3			
	Coordinates: X-611339.5 Y-682651.8	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.62	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Coarse GRAVEL.			
		FILL: Dark Brown medium SAND, some Silt and fine Gravel, little brick fragments and glass.	0.0 ppm	135-B1A (0.5-1.0)	Cr+6, TAL Metals
2		FILL: Gray and Red-orange ASH and SILT, some fine to coarse Gravel, little brick, glass and coal fragments.	0.0 ppm	135-B1B (2.5-3.0)	Cr+6, TAL Metals
		FILL: Gray to Red-orange fine GRAVEL, coarse SAND, little fine gravel-sized Slag.	0.0 ppm	135-B1C (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Pale Olive (5Y 6/3) SILT and fine to coarse SAND, little Clay, angular concrete fragments, 10% COPR, lime green staining, wet, loose. No odor. (Waste Mud)	0.1 ppm		
		FILL: Grayish-Brown (2.5Y 5/2) SILT, little medium to coarse Sand, some white chalky pieces, rough concrete-like pieces, 10% COPR, trace lime green staining, moist, chalky texture. No odor. (Waste Mud)	0.1 ppm	135-B1D (4.5-5.0)	MS/MSD, Cr+6, TAL Metals
6		NR: No Recovery	0.1 ppm		
8		FILL: Grayish-Brown (2.5Y 5/2) SILT, little medium to coarse Sand, some white chalky pieces, rough concrete-like pieces, 10% COPR, trace lime green staining, moist, loose, chalky texture. No odor. (Waste Mud)	0.9 ppm		
			0.0 ppm	135-B1E (8.5-9.5)	Cr+6, TAL Metals
10			0.0 ppm		

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


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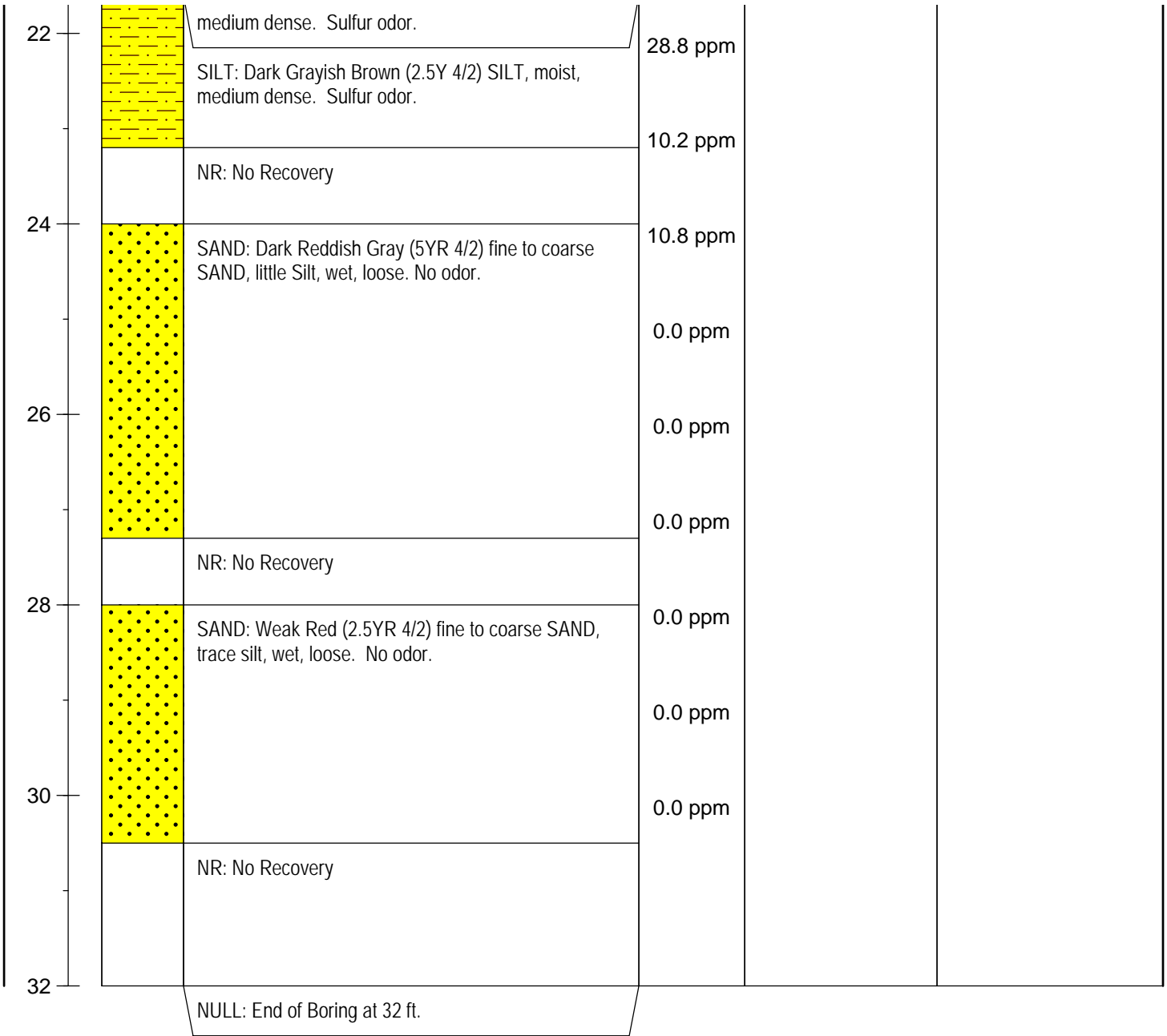
ENSR AECOM	Client: PPG Industries	BORING ID: 135-B1			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 2 of 3			
	Coordinates: X-611339.5 Y-682651.8	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.62	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

			0.0 ppm		
		NR: No Recovery			
12		FILL: Black-stained organic SILT, moist, medium dense. No odor.	0.3 ppm		
		PEAT: PEAT (Meadow Mat), Organics, moist, medium stiff. Sulfur odor.	22.9 ppm	135-B1F (12.8-13.3)	Cr+6, TAL Metals
14			21.9 ppm		
		NR: No Recovery			
16		PEAT: Very Dark Gray (5YR 3/1) organic CLAY, trace Organics, moist, medium stiff. Sulfur odor.	30.6 ppm		
			11.8 ppm	135-B1G (17.0-17.5)	Cr+6, TAL Metals
18		PEAT: PEAT, organic-rich, moist, soft. Sulfur odor.	10.8 ppm		
		NR: No Recovery			
20		PEAT: PEAT, organic-rich, moist, soft. Sulfur odor.	61.4 ppm		
		SILT: Gray (5Y 5/1) SILT, some Clay, moist, medium dense. Sulfur odor.	27.6 ppm	135-B1H (20.6-21.1)	Cr+6, TAL Metals
		SILT: Gray (5Y 5/1) SILT, trace fine Sand, moist,			

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	Client: PPG Industries	BORING ID: 135-B1			
	Site: Site 135				
Start Date: 12/14/2006	Project: Site Investigation	Page: 3 of 3			
	Coordinates: X-611339.5 Y-682651.8	Depth of Boring: 32.00			
End Date: 1/4/2007	Elevation: 11.62	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters



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Client: PPG Industries	BORING ID: 135-B18	
Site: Site 135		
Start Date: 12/13/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-611409.2 Y-682562.0	Depth of Boring: 28.00
End Date: 12/21/2006	Elevation: 10.34	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		ASPHALT: ASPHALT			
		FILL: Gray coarse GRAVEL.	0.1 ppm	135-B18A (0.6-1.1)	Cr+6, TAL Metals
		FILL: Black SILT, some medium Sand, little fine Gravel.			
2					
		FILL: Light Brown SILT and CLAY, little fine Gravel and woody organics.	1.3 ppm	135-B18B (2.8-3.3)	Cr+6, TAL Metals
4					
		FILL: Gray to Black ASH, some Silt and medium Sand, little woody organics.	2.7 ppm	135-B18C (4.1-4.6)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/3) SILT, little to trace very fine Sand, trace fine angular pebbles, Fill material, dry, firm. No odor.	0.2 ppm		
6					
		FILL: Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose to semi-firm. No odor.			
		NR: No Recovery			
8					
		FILL: Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, semi-firm. No odor.	0.1 ppm	135-B18D (8.0-8.5)	Cr+6, TAL Metals
		NR: No Recovery			
10					

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B18	
Start Date: 12/13/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611416 Y-682568	Depth of Boring: 28.00
End Date: 12/21/2006	Elevation: 10.34	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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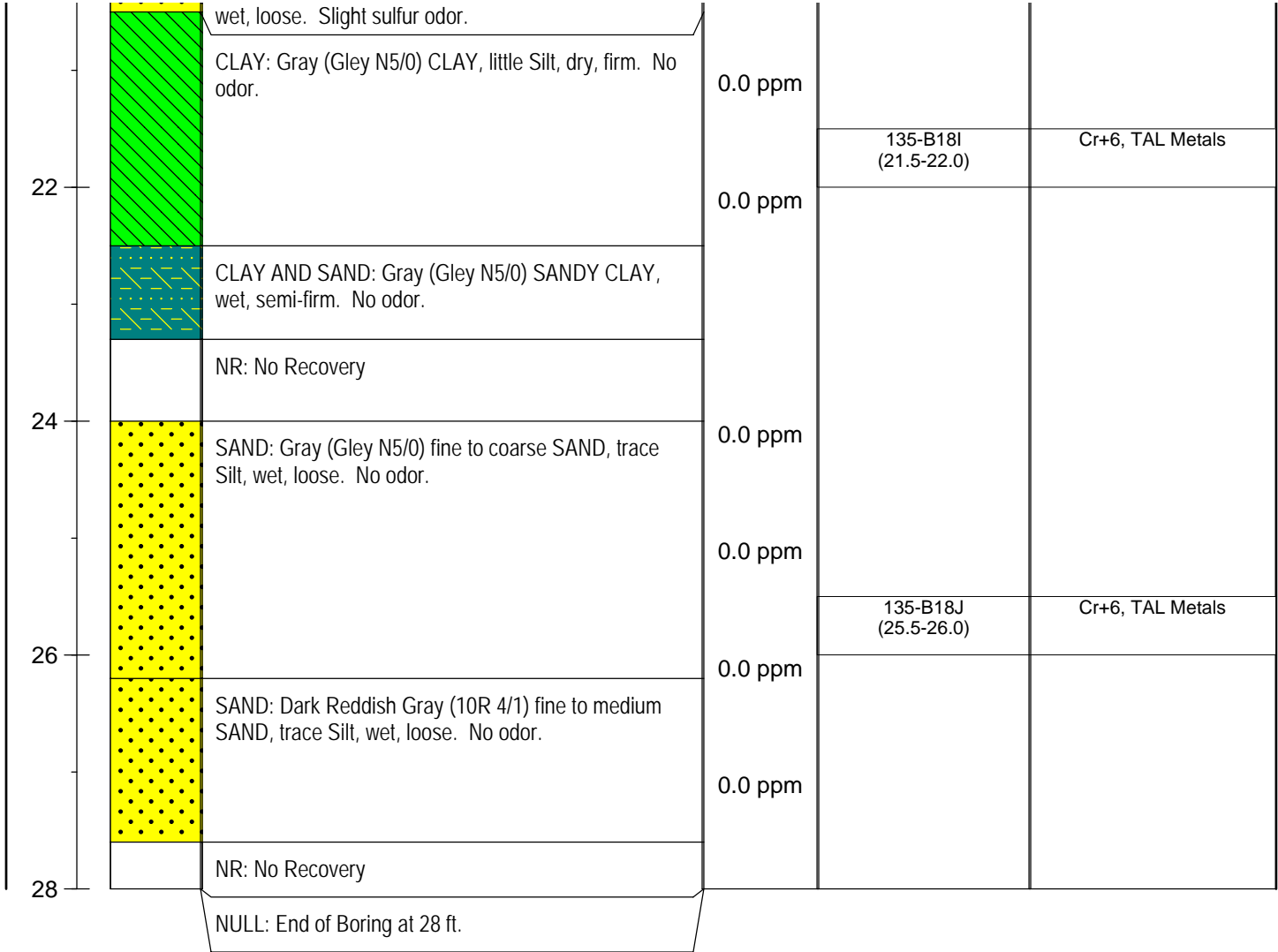
12		FILL: Brown (7.5 YR 4/3) fine to coarse SAND and SILT, little to trace Clay, wet, semi-firm. No odor.	0.0 ppm	135-B18E (12.0-13.0)	MS/MSD, Cr+6, TAL Metals
		FILL: Gray COBBLE	0.4 ppm		
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	144.0 ppm	135-B18F (13.2-13.7)	Cr+6, TAL Metals
		NR: No Recovery			
16		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little organics, moist, firm. Sulfur odor.	146.0 ppm	135-B18G (16.2-16.7)	Cr+6, TAL Metals
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	187.0 ppm		
18		SAND: Gray (Gley N5/0) SAND, little Clay, trace Silt, moist, firm. Sulfur odor.	33.6 ppm	135-B18H (17.5-18.0)	Cr+6, TAL Metals
		NR: No Recovery			
20		SAND: Gray (Gley N5/0) SAND, little Clay, trace Silt,	0.5 ppm		

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B18	
Start Date: 12/13/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611416 Y-682568	Depth of Boring: 28.00
End Date: 12/21/2006	Elevation: 10.34	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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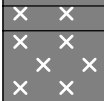


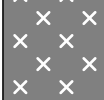
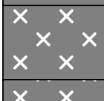

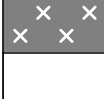

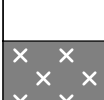



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Client: PPG Industries	BORING ID: 135-B19	
Site: Site 135		
Start Date: 12/13/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		ASPHALT: ASPHALT			
		FILL: Gray fine COBBLES.			
		FILL: Brown coarse SAND, some Silt and Clay, little fine Gravel.	0.0 ppm	135-B19A (1.1-1.8)	Cr+6, TAL Metals
2		FILL: Grey fine COBBLES	1.4 ppm	135-B19B (2.1-2.6)	Cr+6, TAL Metals
		FILL: Gray-Brown ASH, some fine Gravel, little woody organics. Heavy petroleum odor.			
		FILL: Red Brick pieces		135-B19C (3.3-3.8)	Cr+6, TAL Metals
4		FILL: Black-Gray ASH, some fine Gravel, little brick fragments.	0.0 ppm		
		FILL: Dark Grayish Brown, (2.5Y 4/2) SILT and ASH, Fill materials (shells, clinkers, wood particles), wet, loose. No odor.	0.0 ppm	135-B19D (5.1-5.6)	Cr+6, TAL Metals
6		FILL: Black and Dark Grayish Brown (2.5Y 4/2) SILTY CLAY, trace coarse Sand and Topsoil, moist, firm.	0.0 ppm		
		NR: No Recovery			
8		FILL: Dark Grayish Brown (10YR 4/2) SAND CLAY, little Silt, wet, semi-firm. No odor.	0.0 ppm		
		FILL: Black medium SANDY SILT, Fill material, little interbedded Clay, wet, loose. No odor.	0.0 ppm		
10		FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, trace Clay, moist, semi-firm. No odor.	0.1 ppm	135-B19E (9.4-9.9)	Cr+6, TAL Metals
		NR: No Recovery			

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Client: PPG Industries	BORING ID: 135-B19	
Site: Site 135		
Start Date: 12/13/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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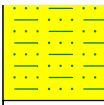
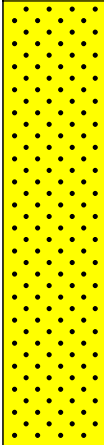
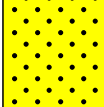
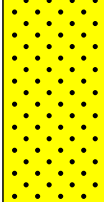
12		FILL: Dark Yellowish Brown (10YR 4/4) SANDY SILT, trace Clay and fine semi-rounded Gravel, wet, loose.	0.0 ppm		
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.0 ppm	135-B19F (13.2-13.7)	MS/MSD, Cr+6, TAL Metals
14		NR: No Recovery	28.1 ppm		
16		PEAT: Dark Gray (Gley N4/0) organic CLAY, some organics, moist, firm. Sulfur odor.	34.8 ppm		
			30.0 ppm	135-B19G (17.2-18.2)	Cr+6, TAL Metals
18		SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.	164.0 ppm	135-B19GD (17.2-18.2)	
			389.0 ppm		
20		NR: No Recovery	54.0 ppm	135-B19H (20.2-20.7)	Cr+6, TAL Metals
		SILT AND CLAY: Black and Dusky Red (2.5YR 3/2) organic SILTY CLAY, trace organics, moist, semi-firm. Sulfur odor.			
		SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, trace Clay, moist, semi-firm (native). Slight sulfur odor.	2.1 ppm		

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B19	
Start Date: 12/13/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X-611417.0 Y-682651.9	Depth of Boring: 32.00
End Date: 1/2/2007	Elevation: 11.11	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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22		CLAYEY SAND: Gray (5Y 6/1) medium to coarse SAND, some to little Clay, trace fine semi-rounded Gravel, moist, firm. Slight naptha odor.	6.6 ppm		
		NR: No Recovery	0.0 ppm		
24		SAND: Dark Gray (10YR 4/1) fine to coarse SAND, trace fine to medium rounded Pebbles, wet, loose to semi-firm. No odor.	0.0 ppm	135-B19I (24.2-24.7)	Cr+6, TAL Metals
			0.0 ppm		
26			0.0 ppm		
			0.0 ppm		
28		NR: No Recovery	0.0 ppm		
		SAND: Reddish Gray (5YR 5/2) very fine to medium SAND, wet, semi-firm. No odor.	0.0 ppm	135-B19J (28.2-28.7)	Cr+6, TAL Metals
			0.0 ppm		
30		SAND: Reddish Brown (5YR 5/4) very fine SAND, little to trace Silt, wet, semi-firm. No odor.	0.0 ppm		
			0.0 ppm		
32		NR: No Recovery			
		NULL: End of Boring at 28 ft.			

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611336.9
Date Started Drilling: 9/16/2015 10:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682559.6
Date Finished Drilling: 9/16/2015 11:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 99		

(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		CONCRETE, (advanced via starbit, 0.2 void space).	
2		0.0	moist	FILL		CINDERS, some metal slag, little fine sand, trace ash, (7.5YR 2.5/1) black, loose, dry, no odor, iron oxide staining.	135-DD26A-1.0-1.5
3						ASH, some cinders, little coal fragments, wood fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown, loose, moist, no odor, iron oxide staining.	135-DD26A-3.0-3.5
5	5	28.1	moist	FILL		ASH, some cinders, little coal fragments, wood fragments (creosote odor), trace fine sand, (10YR 4/2) dark grayish brown, loose, moist, iron oxide staining.	135-DD26A-5.0-5.5
7							135-DD26A-7.0-7.5
9		36.7			FILL		ASH, little wood fibers (creosote odors), trace coal fragments, (7.5YR 2.5/1) black, loose, no staining.
11	4	0.0	moist	FILL		ASH, some fine to medium gravel, little sand and cinders, trace ceramics, brick fragments, (black wood fibers with creosote odor @ 10.5-11.0), (10YR 4/2) dark grayish brown, loose, moist, no staining.	135-DD26A-11.0-11.5
13							135-DD26A-13.0-13.5
14					NR		NO RECOVERY.
15	3	1.3	wet	FILL		ASH, some fine to medium gravel, little silt, (wood with creosote odor @ 15.5-16.0 feet), (7.5YR 2.5/2) very dark brown, loose, wet, no staining.	135-DD26A-15.0-15.5
16		0.0	moist	FILL		fine to medium SAND, little silt, (trace wood fibers @ 16.0-16.4), slight mottling, (10YR 5/4) yellowish brown, dense, moist, no odor, no staining.	135-DD26A-16.3-16.8
17		2.1	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt,) (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining.	135-DD26A-16.8-17.3
18					NR		Soils consistent with MM. 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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611362.5
Date Started Drilling: 9/16/2015 9:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682552.2
Date Finished Drilling: 9/16/2015 10:15:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.5
Physical Location: Former Narula Property - Bld 99		

(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	dry	CONCRETE		CONCRETE, (advanced via starbit, 0.6' of void space).			
2				FILL		ASH, some cinders, little coal and wood fragments, trace brick, (brown fine sand lens with gravel @ 1.5-2.0), (7.5YR 2.5/2) very dark brown, loose, dry, no odor, iron oxide staining.	135-EE26A-1.5-2.0		
3									135-EE26A-3.0-3.5
4				NR				NO RECOVERY.	
5	5	0.0	dry	FILL		ASH, some cinders, little coal fragments, wood fragments, trace metal slag, trace fine sand, (10YR 3/4) dark yellowish brown, loose, dry, no odor, iron oxide staining.	135-EE26A-5.0-5.5		
6				FILL		ASH, some fine to medium gravel, little cinders and wood, trace brick fragments, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining.	135-EE26A-7.0-7.5		
7									135-EE26A-9.0-9.5
8									
9	4	1.3	moist	FILL		ASH, some cinders, little fine sand, trace wood, coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining DTW @ 10.5'.	135-EE26A-11.0-11.5		
10									135-EE26A-13.0-13.5
11									
12				NR				NO RECOVERY.	
13	3	0.0	wet	FILL		fine to medium SAND, (black ash, cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR 4/1) dark reddish gray, loose, wet, no odor, no staining.	135-EE26A-15.0-15.5		
14									135-EE26A-15.9-16.4
15				PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 2.5/3) very dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-EE26A-16.4-16.9		
16				NR				NO RECOVERY.	
17									
18									
19									
20									

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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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611436.2
Date Started Drilling: 9/14/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682607.6
Date Finished Drilling: 9/14/2015 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - 99 Annex (Street)		

(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	4	0.0	dry	ASPHALT		ASPHALT.		
		0.0		FILL		Subbase Gravel, (Trap Rock).		
		0.0	dry	FILL		CINDERS,some brick,fine to medium gravel,(trace red fine sands thoroughout),(10YR 3/3) dark brown,dry,no odor,no staining. fine to medium sand,some ash,wood fragments,(10YR 2/1) black,moist,slight hydrocarbon odor,hydrocarbon staining.	135-FF23A-1.0-1.5	
		0.0	moist	FILL			135-FF23A-3.0-3.5	
4-5				NR	NO RECOVERY.			
5-7	5	10.2	moist	FILL		fine to medium SAND,some cinders and ash,(trace slag and tar-like material @5.0-6.5), (10YR 2/1) black, moist,slight naphthalene odor,hydrocarbon staining, DTW @ 6.4'.	135-FF23A-5.0-5.5	
		0.0	moist	FILL		SILT, and ash, some fine to medium gravel,(10YR 4/3) brown,moist,no odor,no staining.	135-FF23A-7.0-7.5	
		0.0	moist	FILL		SILT,some fine to medium sand,little fine to medium gravel,(5YR 3/2) dark reddish brown,moist,no odor,no staining.		
10-14	4	0.0	moist	FILL		SILT,some fine sand,medium to coarse gravel,(5YR 4/3) reddish brown,moist,no odor,no staining.	135-FF23A-9.0-9.5	
							135-FF23A-11.0-11.5	
								135-FF23A-11.5-12.0
		0.0	moist	PT		PEAT (degraded vegetated material), (80% organic fibers 20% organic silt)(7.5YR 4/2) brown,moist,moderate organic odor,no staining. Soils consistent with MM.	135-FF23A-12.0-12.5	
14-15				NR	NO RECOVERY.			
15-19	5	0.0	moist	OL		UNDorg SILT(90 % organic silt, 10% organic fibers),(7.5YR 4/2) brown,moist,slight organic odor,no staining. Soils consistent with UNDorg.		
		0.0	moist	SM		fine to medium SAND,little silt,trace clay,organic fibers, (7.5YR 6/1) gray,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 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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611417.5
Date Started Drilling: 9/14/2015 9:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682586.1
Date Finished Drilling: 9/14/2015 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - 99 Annex (Street)		

(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	dry	ASPHALT		ASPHALT, and subbase gravel(Trap Rock) with trace asphalt fragments.	
2		0.0	moist	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-1.2-1.7
3							135-FF24A-3.0-3.5
4				NR			NO RECOVERY.
5	5	0.0	moist	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-5.0-5.5
6		0.0	moist	FILL		fine to medium SAND,some medium to coarse gravel,little black staining,(10YR 2/2) very dark brown,moist,no odor, DTW @ 6.4'	135-FF24A-7.0-7.5
7		0.0	moist	FILL		fine to medium SAND,some silt, fine to medium gravel,slight black staining,(10YR 5/3) brown,moist,no odor.	135-FF24A-9.0-9.5
10							
11		0.0	moist	FILL		fine to medium SAND,trace concrete,(2.5YR 3/3) dark reddish brown,moist,no odor,no staining.	135-FF24A-11.0-11.5
12	4	0.0	saturated	FILL		fine SAND and coarse gravel,some silt,(2.5YR 3/3) dark reddish brown,saturated,no odor,no staining.	
13		1.1	moist	OL		UNDorg SILT,(80% organic silt,20% organic fibers), (10YR 4/3) brown, moist,moderate organic odor,no staining.Soils consistent with UNDorg.	135-FF24A-12.8-13.3
14				NR			135-FF24A-13.3-13.8
15	5	1.2	moist	OL		UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 4/3) brown,moist,no odor,no staining. Soils consistent with UNDorg.	
16							
19		0.0	moist	SM		fine SAND, (10YR 6/1) gray,moist,no odor,no staining. Soils consistent with UNDno.	
20							

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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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611298.625
Date Started Drilling: 5/23/2013 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682613.1875
Date Finished Drilling: 6/21/2013 9:40:00 AM	Core Size: 3 in	Boring Total Depth: 15.8 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - BB25A		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Blow Counts (N-Value)	Recovery (ft)	PID (ppm)	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		1.9	0.0	FILL		medium to coarse silty SAND, with crushed asphalt and fine gravel, (7.5YR 2.5/1) black, non plastic loose, dry, no odor, no staining.	
2			0.0	FILL		fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining, trace glass fragments.	135-P3C-BB25A-1.0-1.5
3		1.8	0.0	NR		NO RECOVERY	
4			0.0	FILL		fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining, trace glass fragments.	135-P3C-BB25A-3.0-3.5
5			0.0	FILL		fine SAND, with silt trace fine gravel, (10YR 3/2) very dark grayish brown, non plastic, soft to loose, moist, no odor, no staining, some ash and cinders.	
6		1.6		NR		NO RECOVERY	
7			0.0	FILL		medium SAND, little silt and ceramics, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to moist, no odor, no staining, some ash and coal.	135-P3C-BB25A-5.0-5.5
8			0.0	NR		NO RECOVERY	
9		1.5		FILL		fine to medium SAND, with ash and fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, no odor, no staining, some coal and cinder fragments.	135-P3C-BB25A-7.0-7.5
10			0.0	NR		NO RECOVERY	
11			0.0	FILL		fine to medium SAND, with brick and fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, wet, no odor, no staining, some fill material and ceramics.	135-P3C-BB25A-8.8-9.3
12			0.0	NR		NO RECOVERY	135-P3C-BB25A-9.0-9.5
13		1.5	2.3	PT		medium to coarse SAND, with ash and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining.	135-P3C-BB25A-10.8-11.3
14				NR		NO RECOVERY	
15		1.8		PT		fine silty SAND, trace cinders, little medium and coarse sand, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-BB25A-12.0-12.5
				NR		NO RECOVERY	135-P3C-BB25A-12.5-13.0
				PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	135-P3C-BB25A-12.8-13.3
				NR		NO RECOVERY	
				PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	135-P3C-BB25A-14.8-15.3
				NR		NO RECOVERY	135-P3C-BB25A-15.3-15.8

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: 611364.7
Date Started Drilling: 5/23/2013 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682680.1
Date Finished Drilling: 6/21/2013 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA

Physical Location: Narula Property

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, weathered, and sub-base, (10YR 2/1) black, non plastic, dense, dry.	
1-2		0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little concrete, trace brick, (7.5YR 3/2) dark brown, non plastic, medium dense, slightly moist	135-P3C-CC22A-1.0-1.5
2-3	2	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little coal, trace cinders, (10YR 2/2) very dark brown, non plastic, loose, slightly moist.	
3-4		0.0	dry	FILL		SILT, trace fine sand, (10YR 5/4) yellowish brown, non plastic, loose, dry.	135-P3C-CC22A-3.0-3.5
4-5		0.0	moist	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, loose, moist.	135-P3C-CC22A-4.0-4.5
5-6	1.8	0.0	wet	FILL		ASH, some cinders, little coal, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-CC22A-5.0-5.5
6-7		0.0	wet	NR FILL		NO RECOVERY ASH, some cinders, little coal, little gravel, trace ceramics, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-CC22A-6.0-6.5
7-8	2	0.0	wet	FILL		ASH, some cinders, little gravel, trace brick, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-CC22A-8.0-8.5
8-10	1.8	0.0	wet	NR FILL		NO RECOVERY ASH, some cinders, little gravel, little coal, trace cardboard, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-CC22A-10.0-10.5
10-12	1.8	0.0	moist	FILL		SILT, some organics, little cinders, (10YR 2/1) black, medium plasticity, soft, moist, slight burnt odor.	
12-13		0.0	moist	NR FILL		NO RECOVERY	135-P3C-CC22A-12.0-12.5
13-14		0.0	moist	FILL		SILT, some organics, little gravel, (10YR 2/1) black, medium plasticity, soft, moist, slight burnt odor.	135-P3C-CC22A-12.5-13.0
14-15	4	2.1	moist	PT		very fine SAND, little silt, (2.5Y 3/3) dark olive brown, non plastic, loose, moist to wet, slight burnt odor. 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.	135-P3C-CC22A-13.0-13.5
15-16							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

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


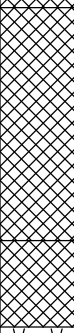
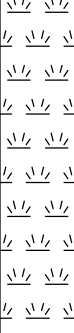

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611328.5
Date Started Drilling: 9/21/2013 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682594.6
Date Finished Drilling: 9/21/2013 3:00:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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		0.0		1	CONCRETE		CONCRETE, (.5in of void)		
1 - 2	3.5	0.0	dry	4B	FILL		fine to medium SAND, some cinders, coal, little fine to medium gravel, trace COPR, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-3.0-3.5	
2 - 3		0.0	dry	3	FILL		ASH, some cinders, coal, little wood fragments, brick, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining.		
3 - 4					NR		NR		NO RECOVERY
4 - 5	5	0.0	dry	3	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-5.0-5.5	
5 - 6		0.0	wet	3	FILL		CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-CC25A-7.0-7.5	
6 - 7									
7 - 8	5							135-P3C-CC25A-9.0-9.5	
8 - 9									
9 - 10									
10 - 11	5	0.0	wet	3	FILL		fine to medium silty CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-CC25A-11.0-11.5	
11 - 12									
12 - 13									135-P3C-CC25A-13.0-13.5
13 - 14	5								
14 - 15									
15 - 16									135-P3C-CC25A-15.0-15.5
16 - 17	5	0.0	dry	3	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, ceramics, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-17.0-17.5	
17 - 18									
18 - 19									135-P3C-CC25A-19.0-19.5
19 - 20	1	0.0	dry	3	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, ceramics, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.		
20 - 21									

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611387.008
Date Started Drilling: 3/4/2014 11:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682666.7554
Date Finished Drilling: 3/4/2014 12:27:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: A. Bogucki	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - DD22A		

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	5	0.0	moist to wet	FILL		fine to medium silty SAND, some gravel, little brick, little concrete, little cinders, (10YR 3/3) dark brown, non plastic, dense, moist to wet.	135-P3C-DD22A-1.0-1.5	
2							135-P3C-DD22A-3.0-3.5	
3								
4								
5	5	0.0	wet	FILL		fine to medium SAND, some ash, little cinders, little silt, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	135-P3C-DD22A-5.0-5.5	
6								
7								135-P3C-DD22A-7.0-7.5
8								
9	5	0.0	wet	FILL		fine to medium silty SAND, some cinders, some ash, little gravel, trace ceramics, (10YR 3/2) very dark grayish brown, non plastic, medium dense, wet.	135-P3C-DD22A-9.0-9.5	
10								
11								135-P3C-DD22A-11.0-11.5
12								
13	5	0.0	wet	FILL		fine silty SAND, little ash, (10YR 4/3) brown, non plastic, medium dense, wet.	135-P3C-DD22A-13.0-13.5	
14								
15								135-P3C-DD22A-14.3-14.8
16								
17	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, medium plasticity, medium dense, moist, strong sulfur odor. Soils consistent with MM.	135-P3C-DD22A-14.8-15.3	
18								
19								
20								

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromium chemical production waste

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: 611383
Date Started Drilling: 9/21/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682629
Date Finished Drilling: 9/21/2013 11:25:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: B.Karas	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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			CONCRETE		CONCRETE	
2			dry	FILL		fine to medium silty SAND, some cinders, trace ash, gravel, brick, glass, (7.5YR 3/2) dark brown, non plastic, soft to loose, dry, no odor, no staining.	135-P3C-DD23A-1.0-1.5
3	4		dry	FILL		fine to medium silty SAND, some glass, trace fine to medium gravel, trace ash, cinders, brick, wood fragments, (7.5YR 3/4) dark brown, non plastic, soft to loose, dry, no odor, no staining.	135-P3C-DD23A-3.0-3.5
4							
5							
6	4		dry	FILL		fine to medium SAND, with cinders, trace ash, soot, (10YR 4/2) dark grayish brown, non plastic, loose, wet to saturated, no odor, no staining.	135-P3C-DD23A-5.0-5.5
7							
8	4		wet	FILL		fine to medium SAND, with cinders, trace ash, trace miscellaneous fill material, trace fine to coarse gravel, (10YR 4/1) dark gray, non plastic, loose, wet to saturated, slight petroleum odor, no staining.	135-P3C-DD23A-7.0-7.5
9							
10							
11	4		slightly moist	FILL		fine to medium SAND, with cinders, some coal, trace ash, glass, fine to medium gravel, (10YR 3/1) very dark gray, non plastic, loose, slightly moist to moist, slight petroleum odor, no staining.	135-P3C-DD23A-9.0-9.5
12							
13	4		slightly moist	FILL		SILT, trace sand, (10YR 3/4) dark yellowish brown, low plasticity, soft, slightly moist to slightly moist, no odor, no staining.	135-P3C-DD23A-11.0-11.5
14							
15							
16	4		dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, dry strong organic odor, no staining. Soils consistent with MM.	135-P3C-DD23A-13.0-13.5
17							
18	4		slightly moist	FILL		SILT, trace sand, (10YR 3/4) dark yellowish brown, low plasticity, soft, slightly moist to slightly moist, no odor, no staining.	135-P3C-DD23A-15.0-15.5
19							
20							135-P3C-DD23A-17.0-17.5
							135-P3C-DD23A-18.0-18.5
							135-P3C-DD23A-18.5-19.0

PPG - PPG_LOGS_GDT - 6/6/14 12:54

Comments:



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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611355.9
Date Started Drilling: 8/24/2013 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682602.1
Date Finished Drilling: 8/24/2013 3:00:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - DD25A		

(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		CONCRETE		CONCRETE	
		0.0	dry	FILL		fine to medium SAND, with fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry to slightly moist.	135-P3C-DD25A-0.5-1.0
							135-P3C-DD25A-2.5-3.0
5-10	5	0.0	dry	FILL		fine to medium SAND, with fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry to slightly moist.	135-P3C-DD25A-4.0-4.5
							135-P3C-DD25A-6.0-6.5
							135-P3C-DD25A-8.0-8.5
10-15	4.5	0.0	wet	FILL		medium to coarse SAND, with fine gravel, trace silt, (7.5YR 2.5/2) very dark brown, non plastic, loose to hard, wet, no odor, no staining.	135-P3C-DD25A-10.0-10.5
							135-P3C-DD25A-12.0-12.5
							135-P3C-DD25A-14.0-14.5
15-20	5			NR		NO RECOVERY	
		0.0	moist	FILL		medium to coarse SAND, with fine gravel, little silt, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist to wet, no odor, no staining.	135-P3C-DD25A-16.0-16.5
							135-P3C-DD25A-18.0-18.5
19-20		0.0	moist	FILL		SILT, with fine sand, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining. PEAT (degraded vegetated material), with 80% organic fibers, and 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-P3C-DD25A-18.5-19.0
		1.4	moist	PT			135-P3C-DD25A-19.0-19.5

PPG - PPG_LOGS_GDT - 9/4/13 12:17

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: 611350.645
Date Started Drilling: 3/21/2014 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682586.391
Date Finished Drilling: 3/21/2014 11:15:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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			CONCRETE		CONCRETE	
2							135-P3C-DD25AR-2.0-2.5
3							
4							135-P3C-DD25AR-4.0-4.5
5	4	0.0	dry to slight moist	FILL		fine to medium silty SAND, little coal, ash, cinders, (10YR 5/6) yellowish brown, loose to dense, dry to slightly moist, no odor, no staining.	
6							135-P3C-DD25AR-6.0-6.5
7							
8		0.0	dry to slight moist	FILL		ASH, some cinders, coal, trace wood fragments, fine sand, (7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining.	135-P3C-DD25AR-8.0-8.5
9				NR		NO RECOVERY	
10	5	0.0	dry to slight moist	FILL		ASH, some cinders, coal, trace wood fragments, fine sand, silt, (7.5YR 7/1) light gray, loose, dry to slightly moist, no odor, no staining.	135-P3C-DD25AR-10.0-10.5
11							
12							135-P3C-DD25AR-12.0-12.5
13							135-P3C-DD25AR-14.0-14.5
14							
15	2	0.0	moist	FILL		SILT, some cinders, coal, ash, trace wood fragments, fine sand, (7.5YR 7/1) light gray, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	135-P3C-DD25AR-15.0-15.5
16							135-P3C-DD25AR-15.5-16.0
17							
18			slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	
19				NR		NO RECOVERY	
20							

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 611404.2948
Date Started Drilling: 3/4/2014 9:26:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682626.445
Date Finished Drilling: 3/4/2014 10:16:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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 3 4	5	0.0		FILL		ASPHALT		
		0.0	sl. moist to moist	FILL		fine to medium silty SAND, some gravel, some fill material, (5YR 3/2) dark reddish brown, non plastic, medium dense, slightly moist to moist.	135-P3C-EE23A-1.0-1.5	
								135-P3C-EE23A-3.0-3.5
		0.0	moist to wet	FILL		ASH, some cinders, little gravel, little brick, (10YR 2/1) black, non plastic, medium dense, moist to wet.		
5 6 7 8	5	0.0	wet	FILL		ASH, some cinders, little fill material, (10YR 2/1) black, non plastic, medium dense, wet.	135-P3C-EE23A-5.0-5.5	
							135-P3C-EE23A-7.0-7.5	
		0.0	moist	FILL		SILT, some ash, little cinders, little roots, (10YR 2/1) black, low plasticity, soft, moist.	135-P3C-EE23A-9.0-9.5	
9 10 11 12 13 14	5	0.0	moist to wet	FILL		SILT, some ash, some cinders, little roots, (10YR 3/2) very dark grayish brown, low plasticity, soft, moist to wet.	135-P3C-EE23A-11.0-11.5	
		0.0	moist	PT		PEAT (degraded vegetated material), 20% organic fibers, 80% organic silt, some clay, (7.5YR 3/2) dark brown, high plasticity, soft, moist.	135-P3C-EE23A-11.5-12.0	
		0.0	moist to wet	SM		fine to medium silty SAND, little gravel, (7.5YR 4/2) brown, non plastic, medium dense, moist to wet.		
		4.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, medium dense, moist, slight sulfur odor.		

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: 611382.2
Date Started Drilling: 9/21/2013 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682582.1
Date Finished Drilling: 9/21/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: A. Bogucki	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Narula Property		

(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	3.5	0.0		CONCRETE		CONCRETE	
2	0.0	0.0	slightly moist	FILL		fine to medium SAND, some cinders trace brick, (10YR 5/2) grayish brown, non plastic loose, slightly moist no odor no staining	
3	0.0	0.0	dry	FILL		fine to medium SAND, some cinders little ash, (7.5YR 2.5/1) black, non plastic loose, dry no odor no staining	135-P3C-EE24A-3.0-3.5
4	0.0	0.0		FILL		NO RECOVERY	
5	5	0.0	moist	FILL		fine to medium SAND, with cinders, some coal slag little wood fragments, trace glass, (7.5YR 2.5/3) very dark brown, non plastic loose, moist no odor no staining	135-P3C-EE24A-5.0-5.5
6	0.0	0.0		FILL		fine to medium silty SAND, some cinders little ash, fine gravel, trace wood fragments, (7.5YR 3/1) very dark gray	135-P3C-EE24A-7.0-7.5
7							
8							
9							135-P3C-EE24A-9.0-9.5
10	5	0.0	slightly moist	FILL		ASH, some cinders, coal little wood fragments, ceramics, trace coarse gravel, (7.5YR 4/1) dark gray, non plastic loose, slightly moist no odor no staining	135-P3C-EE24A-11.0-11.5
11	0.0	0.0	moist	FILL		fine silty SAND, little fine gravel trace roots, (7.5YR 3/2) dark brown, non plastic loose to dense, moist no odor no staining	135-P3C-EE24A-13.0-13.5
12							
13							
14							
15	4	0.0	dry	FILL		CINDERS, some coal little fine gravel, trace silt, (7.5YR 2.5/1) black, non plastic hard, dry no odor no staining	135-P3C-EE24A-15.0-15.5
16	0.0	0.0	moist	FILL		SILT, some fine sand trace roots, (10YR 5/2) grayish brown, low plasticity soft, moist no odor no staining	135-P3C-EE24A-16.8-17.3
17	2.3	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, non plastic stiff, dry strong petroleum odor no staining. Soils consistent with MM.	135-P3C-EE24A-17.3-17.8
18							
19	2.3			PT		NO RECOVERY	
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 3/31/15 17:29

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: 611390.7882
Date Started Drilling: 3/4/2014 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682599.6855
Date Finished Drilling: 3/4/2014 10:21:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: A. Bogucki	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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	dry to moist	3	FILL		fine to medium SAND, some gravel, little silt, little fill material, (7.5YR 4/2) brown, non plastic, medium dense, dry to moist.	135-P3C-EE24AR-1.0-1.5	
2									
3									
4		0.0	moist to wet	3	FILL		fine to medium silty SAND, some gravel, (10YR 4/3) brown, non plastic, medium dense, moist to wet.	135-P3C-EE24AR-3.0-3.5	
5									
6									
7	5	0.0	wet	3	FILL		CINDERS, some ash, (10YR 3/1) very dark gray, non plastic, dense, wet.	135-P3C-EE24AR-5.0-5.5	
8									
9									
10		0.0	wet	3	FILL		CINDERS, some ash, little gravel, (10YR 3/2) very dark grayish brown, non plastic, dense, wet.	135-P3C-EE24AR-9.0-9.5	
11									
12									
13	5	0.0	moist	3	FILL		SILT, little ash, little clay, little roots, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist.	135-P3C-EE24AR-13.0-13.5	
14		0.0	moist	3	FILL			SILT, some sand, little roots, little clay, (7.5YR 2.5/3) very dark brown, low plasticity, medium dense, moist.	135-P3C-EE24AR-14.0-14.5
15		0.0	moist	3	FILL				sandy SILT, some gravel, little roots, (5YR 4/2) dark reddish gray, low plasticity, dense, moist.
16		4.0	moist	7	PT				
17					PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, little clay, (10YR 4/3) brown, low plasticity, medium dense, moist, strong sulfur odor.				
18									
19									
20		24.7	moist	8	SP				fine SAND, (10YR 4/1) dark gray, non plastic, dense, moist, slight sulfur odor. Soils consistent with UNDno.

PPG - PPG_LOGS.GDT - 6/6/14 12:48

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: direct push	Coordinates (NJSPNAD83) x: 611421.8
Date Started Drilling: 6/10/2016 10:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682655.8
Date Finished Drilling: 6/10/2016 11:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - CAR PDI		

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1 2 3 4 5	4.5	0.5		2	ASPHALT		Asphalt and gravel sub-base.		
				1	CONCRETE		Concrete		
			dry	3	FILL		fine to medium SAND, little fine gravel, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.		
			dry to moist	3	FILL		ASH, (5Y 5/1) gray, loose, dry to moist, no odor, no staining.		
				NR	NR		NO RECOVERY		
6 7 8 9	2	0.3	moist	3	FILL		ASH, (5Y 4/1) dark gray, loose, moist, no odor, no staining.		
			moist	3	FILL		SILT, (7.5YR 3/3) dark brown, soft, moist no odor, no staining.		
			wet	3	FILL		fine to medium silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, water at 7.0 feet.	CAR-PDI-EE22A-7.0-7.5	
				NR	NR		NO RECOVERY		
10 11 12 13 14	5	0.0	wet	3	FILL		fine to medium silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	CAR-PDI-EE22A-11.0-11.5	
									CAR-PDI-EE22A-12.7-13.2
			dry	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, no odor, no staining. Soils consistent with MM.		
15									

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromium chemical production waste

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.



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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611373.901
Date Started Drilling: 4/15/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682643.445
Date Finished Drilling: 4/15/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: A. Salazar, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Alleyway on Carteret between Pacific and Halladay St.		

(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	moist	2 3	Fill		Black Asphalt Dark Brown (10YR 2/1) fine SANDY SILT, some Organics, little Fill Material (coal, ash) and fine to medium angular Gravel, moist, loose. No odor.	EF-B16_0.0
2		0						EF-B16_2.5
3		0						EF-B16_3.0
4		0						EF-B16_4.0
5		0						
6	1			6	Fill		Reddish Gray (2.5YR 5/1) ASH and CINDERS, little Coal fragments and Silt, wet, loose. No odor. No Recovery	EF-B16_5.5
7								
8								
9								
10		0						EF-B16_10.0
11	3	0.1	moist	6	Fill		Same as above. Red (2.5YR 5/6) SILT and fine to coarse SAND, chalky texture, 70% GGM, wet, loose. Chemical odor. Gray (7.5YR 6/1) and Lime Green mottled SILT and fine to medium SAND (100% GGM), trace COPR nodules, wet, soft. Chemical odor. Black medium crushed GRAVEL, little Silt and fine Sand, wet, loose. No odor. No Recovery	EF-B16_11.0
12		0.1	wet	5	Fill			
13			wet	3	Fill			
14					Fill			
15		0						EF-B16_15.0
16	2.6	64	wet moist	3 7	Fill PT		Dark Brown (10YR 2/1) very fine SAND, some Silt, trace fine Gravel, wet, loose. No odor. Reddish Black (2.5YR 2.5/1) PEAT, some Silty Clay and organics, semi-cohesive, stiff. Sulfur odor.	EF-B16_16.0
17		27						
18					PT			
19								
20		224						
21	2.2	76	moist	7	PT		Same as above.	EF-B16_21.0
22		52	wet	8	SP			
23					SP			
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: GGM identified from 10.5-12.2 ft bgs.

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



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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611406.291
Date Started Drilling: 5/25/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682612.264
Date Finished Drilling: 5/25/2011	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: E. Acs, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 3.5 ft
Physical Location: Pacific Street in Loading Dock at Auto Sport Building		

(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	EF-B50_1.5	
2		0	dry	3	Fill		Very Dark Grayish Brown (10YR 3/2) fine to medium SAND, some fine to coarse angular Gravel (asphalt ballast), loose to medium dense. No odor.		
3		0	moist	6	Fill		Brown (10YR 4/3) to Black (10YR 2/1) fine to medium SAND, some-little Ash and Cinders, trace Fill Material (coal, wood, brick, ceramics), loose. No odor.		
4		0	wet	3	Fill		Black (10YR 2/1) fine to coarse angular GRAVEL, trace fine to medium Sand, loose. No odor.		
5		0	wet	6	Fill		Very Dark Gray (2.5Y 3/2) fine crushed CINDERS and ASH, loose. No odor.		
6	0.5		wet	6	Fill		No Recovery		
7			wet	6	Fill				
8									
9									
10		0					Same as above.		
11	2.6	98.2	wet	6	Fill		Dark Grayish Brown (10YR 4/2) to Black-stained SILT, little very fine Sand, trace organics, medium dense. Napthalene odor.	EF-B50 11.0	
12			moist	3	Fill			EF-B50 12.0X	
13			moist	7	PT		Dark Yellowish Brown (10YR 3/4) PEAT, organics, trace Silty Clay, semi-cohesive, medium stiff. Sulfur odor.	EF-B50_12.0	
14			moist	7	PT		No Recovery		
15							End of boring at 15 ft.		
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 10/12/11 11:29 - \USPSW2VFP001\DATA_USPSW2VFP001\ENVIRONMENT\PI\SCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORK\BORING LOGS\GINT



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: Geoprobe	Coordinates (NJSPNAD83) x: 611331.4604
Date Started Drilling: 8/12/2011	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682609.4402
Date Finished Drilling: 8/12/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/23 ft
Physical Location: Inside Site 135 Building		

(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	1.9	0	dry	1	Fill		Concrete Slab	
2		moist	6	6	Fill		Concrete and Black SILT, some Ash and Cinders, loose. No odor. No Recovery	EF-B78_1.5
3		moist	6	6	Fill			
4	0.5	0					Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and metal, loose. No odor. No Recovery	
5								
6		wet	6	6	Fill			
7	0						Black CINDERS and SILT, little wood, slag and metal, loose. Slight tar odor.	
8								
9								
10	1.3	0	wet	6	6	Fill	No Recovery	EF-B78 10.0
11			wet	6	6	Fill		
12								
13	0						Same as above.	
14								
15								
16	1.8	10.1	wet	6	7	PT	Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high Organics, medium dense. Sulfur odor.	EF-B78 16.0
17			moist	7	7	PT	No Recovery	
18								
19	1.3						Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty Clay, medium dense. Sulfur odor.	
20								
21								
22	3.3	41.7	moist	7	7	PT	No Recovery	
23			65.8					
24				wet	8	8	SP	Gray (Gley1 5/0) very fine SAND, loose. No odor.
25			wet	8	8	SP	No Recovery	
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 - 10/12/11 11:29 - \\USPSW2\FP001\DATA_USPSW2\FP001\ENVIRONMENT\PPISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BIGA RI-SOIL INVESTIGATION\FIELD WORK\BORING LOGS\GINT

Appendix I-3

Site 135 South

Boring logs for the remaining sample locations in Site 135 South 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. Location 135-AA31AR was a supplemental step-off boring location located immediately adjacent to location 135-AA31A; therefore, one boring log was generated for both locations.

Project Name: PPG Garfield Ave	Drilling Company: Eichelberger/Terra Probe Incorporated
Project Number: 60240739	Drilling Method: Soft Dig/GeoProbe
Date Started Drilling: 12/14/2006	Rig Type:
Date Finished Drilling: 1/3/2007	Core Size: 12 in
Logged By: P. Kelly, M. Merdinger	Project Manager: Scott Mikaelian
Physical Location: Narula Property	Surface Elevation: 10.2 ft NAVD88
Coordinates (NJSPNAD83) x: 611129.2	
Coordinates (NJSPNAD83) y: 682461.7	
Boring Total Depth: 32 ft	
Depth to Water:	

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			dry	TOPSOIL		Black Topsoil, dry.	
			dry	FILL		WOOD Planks and Roots, dry	
2			dry	FILL		Gray ASH and coarse SAND, little fine Gravel, Glass fragments, Rootlets, dry.	133-B17A (1.1-1.6)J49295-6
3							
4			dry	FILL		Black-stained ASH, some Rootlets, Glass, Debris, dry.	133-B17B (3.3-3.8)J49295-21
			wet	FILL		Black-stained ASH, some Rootlets, Glass, Debris, wet.	
5			wet	FILL		Black-stained ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. Impacted with viscous MGP Tar. Strong MGP odor.	133-B17C (4.0-4.5)J49295-20
6			wet	NR		No Recovery	
7							
8							
9			wet	FILL		Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. No odor.	133-B17D
			wet	NR		No Recovery	
10							
11							
12							
13			wet	FILL		Gray (Gley N6/0) ASH and medium GRAVEL, little Silt, Fill Material (glass, ceramics, tile, coal), loose, wet. No odor.	133-B17E
			moist	FILL		Black organic CLAY, trace organics, medium stiff, moist. Slight naphthalene odor.	
14			moist	FILL		Dark Gray (10YR 4/1) silty CLAY, soft, moist. No odor.	133-B17F
			moist	PEAT		PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	
15			moist	NR		No Recovery	
16							
17			moist	PEAT		Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor.	
18							133-B17G
19			moist	NR		No Recovery	
20							
21			moist	PEAT		Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, shells, medium stiff, moist. Sulfur odor.	133-B17H
			moist	CLAY		Dark Gray (10YR 4/1) fine to coarse sandy CLAY, trace	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Eichelberger/Terra Probe Incorporated	
Project Number: 60240739	Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSPNAD83) x: 611129.2
Date Started Drilling: 12/14/2006	Rig Type:	Coordinates (NJSPNAD83) y: 682461.7
Date Finished Drilling: 1/3/2007	Core Size: 12 in	Boring Total Depth: 32 ft
Logged By: P. Kelly, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23			wet	SAND		Silt, soft, moist. No odor. Dark Gray (10YR 4/1) fine to coarse SAND, little Silt, trace Clay, loose, wet. No odor.	
24			wet	NR		No Recovery	
25			wet	SILTY SAND		Dark Gray (10YR 4/1) fine to coarse silty SAND, little Clay, loose, wet. No odor.	
26			wet	SILTY SAND		Dark Gray (10YR 4/1) very fine silty SAND, trace Clay, wet. No odor.	
27			moist	CLAY		Dark Grayish Brown (10YR 4/2) medium to coarse sandy CLAY, trace Silt, soft, moist. No odor.	
28			moist	NR		No Recovery	
29			moist	SANDY SILT		Dark Reddish Gray (5YR 4/2) fine to medium sandy SILT, trace Clay, medium stiff, moist. No odor.	
30			wet	SAND AND SILT		Dark Reddish Gray (5YR 4/2) SAND and SILT, some Clay, loose, moist to wet. No odor.	
31			wet	NR		No Recovery	
32			wet	NULL		End of Boring at 32 ft.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave		Drilling Company: Eichelberger/Terra Probe Incorporated	
Project Number: 60240739		Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSPNAD83) x: 611256
Date Started Drilling: 12/14/2006		Rig Type:	Coordinates (NJSPNAD83) y: 682581.1
Date Finished Drilling: 1/4/2007		Core Size: 12 in	Boring Total Depth: 32 ft
Logged By: P. Kelly, M. Merdinger		Project Manager:	Depth to Water:
Physical Location: Narula Property			Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
			dry	TOPSOIL		Black Topsoil, dry.	
1			dry	FILL		Dark Brown medium SAND and SILT, some fine Gravel, little Rootlets, dry. Gray and little Red-orange ASH, some fine Gravel, little woody Organics, dry.	133-B18A (0.4-0.9)J49295-11
2			dry	FILL			133-B18B (1.5-2.0)J49295-12
3			dry	FILL		Black-gray ASH, some fine to coarse Gravel, trace woody Organics, Sand and Glass, dry.	
4			dry	FILL			133-B18C (3.4-3.9)J49295-14
5			wet	FILL		Gray to Black-stained fine GRAVEL, some coarse Gravel and coarse Sand, trace Glass and Ceramic pieces, wet. Slight petroleum odor. Dark Gray (2.5Y 4/1) ASH, little Silt and Sand, crushed Fill Material (ceramics, glass, rocks, coal, wood), loose, wet. No odor.	
6			wet	FILL			133-B18D (4.5-5.0)J49295-15
7							
8							
9			wet	NR		No Recovery	133-B18E
10							
11			wet	FILL		Black-stained ASH, little Silt and Sand, crushed Fill Material (ceramics, glass, rocks, coal, wood, rubber, oyster shells, metal), loose, wet. Impacted with Coal Tar. Naphthalene odor.	
12			wet	FILL			133-B18F
13			wet	NR		Pale Brown (10YR 6/3) and Light Gray (10YR 7/1) mottled SILT, little Clay, some Gray-Mint Greenish staining, soft, moist. No odor. No Recovery	
14							
15							
16			moist	PEAT		PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	
17							133-B18G
18							
19							
20							
21			wet	SAND		Dark Gray (5Y 4/1) very fine to fine SAND, trace Silt, loose, wet. Slight sulfur odor.	133-B18H

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/5/17 12:09

Project Name: PPG Garfield Ave	Drilling Company: Eichelberger/Terra Probe Incorporated
Project Number: 60240739	Drilling Method: Soft Dig/GeoProbe
Date Started Drilling: 12/14/2006	Rig Type:
Date Finished Drilling: 1/4/2007	Core Size: 12 in
Logged By: P. Kelly, M. Merdinger	Project Manager:
Physical Location: Narula Property	Coordinates (NJSPNAD83) x: 611256
	Coordinates (NJSPNAD83) y: 682581.1
	Boring Total Depth: 32 ft
	Depth to Water:
	Surface Elevation: 10.4 ft NAVD88

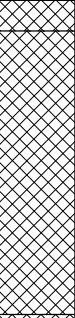
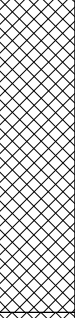

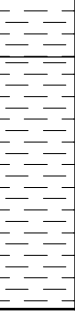


Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23			moist	SILT AND CLAY		Greenish (5GY 5/1) SILT and CLAY, little medium rounded Gravel, some mottling of Grayish Green (5G 5/2) very fine Sand, medium stiff, moist. No odor.	
24			moist	SILT AND GRAVEL		Brown (7.5YR 4/2) SILT and coarse medium GRAVEL, mottled with Light Olive Brown (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium dense, moist. No odor.	
25			moist	NR			No Recovery
26			wet	SILT AND GRAVEL SAND		Brown (7.5YR 4/2) SILT and coarse medium GRAVEL, mottled with Light Olive Brown (2.5Y 5/4) and Dark Red (2.5YR 3/6), medium dense, moist. No odor.	
27						Reddish Brown (2.5YR 4/3) fine to coarse SAND, trace Silt, loose, wet. No odor.	
28			wet	NR		No Recovery	
29			wet	SAND		Reddish Brown (2.5YR 4/4) fine to medium graded SAND, trace Silt, loose, wet. No odor.	
30							
31			wet	SILTY SAND		Red (2.5YR 4/6) very fine silty SAND, trace interbedded fine to medium Sand, medium dense, wet. No odor.	
32			wet	NR		No Recovery	
				NULL		End of Boring at 32 ft.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611257.479
Date Started Drilling: 4/9/2014 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682598.92
Date Finished Drilling: 4/9/2014 12:30:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - AA26A		

(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		fine to medium SAND, with coarse gravel, some trap rock, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-AA26A-1.0-1.5	
		0.0	dry to moist	FILL				fine to medium SAND, with cinders, some ash, little broken cement, trace glass, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.
2	5						133-P3C-AA26A-3.0-3.5	
3								
4								
5	5	0.0	moist to wet	FILL		fine to medium silty SAND, some ash, little medium gravel, trace wood debris, (10YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining.	133-P3C-AA26A-5.0-5.5	
6							133-P3C-AA26A-7.0-7.5	
7								133-P3C-AA26A-9.0-9.5
8								
9	5	0.0	wet to saturated	FILL		fine silty SAND, with wood debris, some coarse gravel, (10YR 4/1) dark gray, loose to medium dense, wet to saturated, no odor, no staining.	133-P3C-AA26A-11.0-11.5	
10								
11								
12								
13								
14	5	0.0	moist	FILL		SILT, (7.5YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining.	133-P3C-AA26A-13.0-13.5	
15		0.0	moist	FILL			fine SAND, little silt, trace organics, (5YR 4/3) reddish brown, low plasticity, soft, moist, no odor, no staining.	133-P3C-AA26A-13.5-14.0
16		0.0	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, firm, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-AA26A-14.0-14.5
17	5	0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.		
18		0.0	moist	OL			UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19								
20								

PPG - PPG_LOGS_GDT - 6/24/14 16:14

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: 611243.09
Date Started Drilling: 5/22/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.3125
Date Finished Drilling: 5/22/2013 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - AA27A		

(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			
1	2	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.			
2	1.8	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.			
3		0.0	dry	FILL		ASH, some cinders, coal, wood fragments, (10YR 7/2) light gray, non plastic, loose, dry, no odor, no staining.			
3		0.0	slightly moist	FILL		ASH, some cinders, coal, wood fragments, (10YR 7/2) light gray, non plastic, loose, dry, no odor, no staining.			
4	1.1	63.4	moist	NR		fine SAND, trace silt, (7.5YR 3/4) dark brown, non plastic, loose, slightly moist, no odor, no staining.			
4				FILL		NO RECOVERY			
5	1.3	10.6	moist	NR		ASH, with tar-like material and cinders, coal, little fine to coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, moderate tar odor, sheen.			
6				FILL		NO RECOVERY			
6				NR		ASH, some fine to medium sand, coal, cinders, wood fragments tar-like material, little glass, tar-like material, (7.5YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen, sheen in spilt spoon.	133-P3C-AA27A-6.5-7.0		
7	1	0.0	moist	FILL		NO RECOVERY			
8				NR		ASH, some fine to medium sand, coal, cinders, wood fragments, tar-like material, little glass, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-8.5-9.0		
9	1.2	0.0	moist	FILL		ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.			
10				NR		NO RECOVERY			
10				FILL		ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-10.5-11.0		
11	0			NR		NO RECOVERY			
12				NR		NO RECOVERY			
13	2	0.0	moist	FILL		ASH, some fine sand, coal, cinders, wood fragments, ceramics tar-like material, little glass, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-14.2-14.7		
14				2.9	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong petroleum odor, no staining. Soils consistent with MM.	133-P3C-AA27A-14.7-15.2
14				0.0	moist	MH		UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, medium plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	
15									
16									

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: 611243.09
Date Started Drilling: 5/22/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.3125
Date Finished Drilling: 5/22/2013 2:35:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - AA27A		

(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		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.		
2	1.8	0.0	dry	FILL		fine to medium silty SAND, with fine to coarse gravel, little coal, ash, trace brick, (5YR 3/2) dark reddish brown, non plastic, loose to dense, dry, no odor, no staining.		
3		0.0	dry	FILL				
		0.0	slightly moist	FILL				
4	1.1	63.4	moist	NR		ASH, some cinders, coal, wood fragments, (10YR 7/2) light gray, non plastic, loose, dry, no odor, no staining.		
5				FILL			fine SAND, trace silt, (7.5YR 3/4) dark brown, non plastic, loose, slightly moist, no odor, no staining.	
6	1.3	10.6	moist	NR		NO RECOVERY		
7				FILL		ASH, with tar-like material and cinders, coal, little fine to coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, moist, moderate tar odor, sheen.	133-P3C-AA27A-6.5-7.0	
8				NR		ASH, some fine to medium sand, coal, cinders, wood fragments tar-like material, little glass, tar-like material, (7.5YR 4/1) dark gray, non plastic, loose, moist, moderate tar odor, sheen, sheen in spilt spoon.		
9	1	0.0	moist	FILL		NO RECOVERY		
10				NR		ASH, some fine to medium sand, coal, cinders, wood fragments, tar-like material, little glass, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-8.5-9.0	
11	1.2	0.0	moist	FILL		ASH, some fine to medium sand, coal, cinders, wood fragments, ceramics, tar-like material little glass, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-10.5-11.0	
12				NR		NO RECOVERY		
13	0			NR		NO RECOVERY		
14	2	0.0	moist	FILL		ASH, some fine sand, coal, cinders, wood fragments, ceramics tar-like material, little glass, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining, sheen in spilt spoon.	133-P3C-AA27A-14.2-14.7	
15		2.9	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong petroleum odor, no staining. Soils consistent with MM.	133-P3C-AA27A-14.7-15.2
16		0.0	moist	MH			UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, medium 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 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: Direct Push	Coordinates (NJSPNAD83) x: 611243.362
Date Started Drilling: 6/8/2015 7:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.467
Date Finished Drilling: 6/8/2015 7:00:00 PM	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: P3C-AA27A		Surface Elevation: 11.675 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	4	0.0	dry	3	FILL		ASPHALT, (7.5YR 2.5/1) black, dry, no odor, no staining.	
		0.0	dry	3	FILL		fine to medium SAND, little brick, trace wood debris, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-AA27A-0.5-1.0
		0.0	dry	3	FILL		ASH, little coal fragments, (10YR 5/1) gray, loose, dry, no odor, no staining.	133-P3C-AA27A-2.0-2.5
		0.0	moist	3	FILL		fine to medium SAND, trace ash, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining.	133-P3C-AA27A-3.5-4.0
		0.0	moist	3	FILL		fine to medium, little coal fragments, (7.5YR 2.5/1) black, medium dense, moist, no odor, sheen.	133-P3C-AA27A-3.5-4.0
				3	NR		NO RECOVERY.	
5 6 7 8	3	0.0	wet	3	FILL		Incinerator ASH, little wood debris, trace glass, (10YR 4/2) dark grayish brown, loose, DTW @ 6.0' bgs, from 6.0-8.0' bgs color gray.	133-P3C-AA27A-5.0-5.5
				3	NR		NO RECOVERY.	133-P3C-AA27A-7.0-7.5
9 10								

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610933.54
Date Started Drilling: 4/21/2014 7:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682292.54
Date Finished Drilling: 4/21/2014 8:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - V40A		

(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		fine to medium GRAVEL, some asphalt, little wood debris, trace organics, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-V40A-0.5-1.0		
		0.0	dry	FILL					
		0.0	dry	FILL					
		0.0	dry	FILL					
2	5	0.0	dry	FILL		fine to medium SAND, with asphalt, some fine to medium gravel, little wood debris, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	133-P3C-V40A-2.0-2.5		
		0.0	dry	FILL					
3	5					fine to medium SAND, some asphalt, trace glass, brick fragments, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining.			
4	5					fine to coarse SAND, with fine to medium gravel, some brick, (10YR 4/1) dark gray, medium dense to loose, dry, no odor, no staining.	133-P3C-V40A-4.0-4.5		
5	3.5	0.0	dry	FILL		fine to medium silty SAND, with debris, some ash, cinders, little brick, glass, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-V40A-5.0-5.5		
6		0.0	dry	FILL					
7		246.0	moist to wet	FILL					
8		103.0	wet	FILL					
9	3.5	135.0	moist	FILL		fine to medium silty SAND, some ash, cinders, wood debris, glass, (10YR 4/2) dark grayish brown, dense, moist to wet, strong hydrocarbon odor, sheen.	133-P3C-V40A-8.0-8.5		
10	3.5			NR		CINDERS, some fine to medium gravel, (7.5YR 2.5/1) black, loose, wet, strong hydrocarbon odor, hydrocarbon staining, sheen.			
11	4.5	74.5	wet	FILL		fine to medium silty SAND, with cinders, some debris, trace glass, (10YR 3/1) very dark gray, loose, moist, strong hydrocarbon odor, sheen.	133-P3C-V40A-10.0-10.5		
12		19.0	wet to moist	FILL					
13									NO RECOVERY
14		0.0	moist	FILL					
15	4.5			NR		NO RECOVERY			
16	5	0.0	moist	FILL		fine to medium silty SAND, some debris, glass, (7.5YR 2.5/1) black, medium dense, moist, no odor, no staining.	133-P3C-V40A-15.3-15.8		
17		0.0	dry	FILL					
18		0.0	dry	PT					
19		0.0	moist	OL					
20	5					SILT, some fibers, trace glass, (10YR 3/3) dark brown, low plasticity, soft, dry, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-V40A-15.8-16.3		

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: 611000.875
Date Started Drilling: 6/24/2013 8:48:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682359.4375
Date Finished Drilling: 6/24/2013 10:22:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - W37A		

(Note bgs = below ground surface)

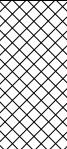












Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.3	0.0	dry	ASPHALT		ASPHALT, (10YR 2/1) black, dry.	133-P3C-W37A-0.5-1.0
		0.0	slightly moist	FILL		fine to medium silty SAND, some angular gravel, (5YR 5/6) yellowish red, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	ASPHALT		ASPHALT, weathered, (10YR 2/1) black, slightly moist.	
2	1	0.0	moist	NR		fine to medium silty SAND, some angular gravel, (10YR 5/3) brown, non plastic, medium dense, moist.	133-P3C-W37A-2.5-3.0
		0.0	moist	NR		NO RECOVERY	
3	1			NR		fine to medium silty SAND, some gravel, little wood, little asphalt, (10YR 4/2) dark grayish brown, non plastic, medium dense, moist.	
4		0.0	moist	FILL		NO RECOVERY	
5	2	0.0	moist to wet	FILL		fine to medium CINDERS, some fine to medium sand, little wood, (10YR 3/2) very dark grayish brown, non plastic, loose, moist.	133-P3C-W37A-4.5-5.0
6		0.0	wet	FILL		ASH, some cinders, little wood, (10YR 3/1) very dark gray, non plastic, loose, moist to wet, strong petroleum odor, sheen.	
7	1.3			NR		ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, strong petroleum odor, sheen.	133-P3C-W37A-6.5-7.0
8		0.0	wet	FILL		NO RECOVERY	133-P3C-W37A-6.5-7.0X
9	0.6			NR		ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet, moderate petroleum odor, sheen.	133-P3C-W37A-8.0-8.5
10		0.0	wet	FILL		ASH, some cinders, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-W37A-10.0-10.5
11	0.8			NR		NO RECOVERY	
12		0.0	wet	FILL		ASH, some cinders little gravel, (10YR 3/1) very dark gray, non plastic, medium dense, wet.	133-P3C-W37A-12.0-12.5
13	1.3			NR		NO RECOVERY	
14		0.0	moist	FILL		SILT, some ash little gravel, (7.5YR 4/2) brown, low plasticity, soft, moist.	133-P3C-W37A-14.0-14.5
15	2						
16		0.0	wet	FILL		silty SAND, some cinders, (7.5YR 4/2) brown, low plasticity, loose, wet.	133-P3C-W37A-15.7-16.2
17	2	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 2/2) very dark brown, non plastic, medium dense, moist. Soils consistent with MM.	133-P3C-W37A-16.2-16.7
18							

PPG - PPG_LOGS_GDT - 7/16/13 17:17

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: 611003.17
Date Started Drilling: 4/22/2014 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682357.687
Date Finished Drilling: 4/22/2014 10:40:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - W37AR		

(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		fine to medium SAND, some fine to coarse gravel, little asphalt, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	133-P3C-W37AR-1.0-1.5
2		0.0	dry	CONCRETE		crushed CONCRETE, (9.5/2.5Y_1) white, very dense, dry, no odor, no staining.	133-P3C-W37AR-3.0-3.5
3	5	0.0	dry	FILL		CINDERS, and ash, with fine to medium silty sand, little coal, glass, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining.	133-P3C-W37AR-3.0-3.5
4		0.0	dry	FILL		CINDERS, and ash, (10YR 3/1) very dark gray, medium dense, moist, slight hydrocarbon odor, no staining.	133-P3C-W37AR-5.0-5.5
5	5	8.1	moist	FILL		fine to medium silty SAND, (10R 4/2) weak red, medium dense, moist, slight hydrocarbon odor, no staining.	133-P3C-W37AR-5.0-5.5
6		20	moist	FILL		fine to medium silty SAND, with ash, wood debris, some fine to medium gravel, trace brick, (10YR 3/1) very dark gray, medium dense, wet, strong hydrocarbon odor, sheen.	133-P3C-W37AR-7.0-7.5
7		185	wet	FILL		fine to medium silty SAND, with ash, little wood debris, (10YR 4/1) dark gray, loose, saturated, no odor, no staining.	133-P3C-W37AR-9.0-9.5
8	5	0.0	saturated	FILL		ASH, some fine to medium silty sand, (10YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3C-W37AR-11.0-11.5
9		0.0	wet	FILL		fine to medium silty SAND, some fine to medium gravel, trace debris, glass, (2.5YR 3/2) dusky red, medium dense, moist, no odor, no staining.	133-P3C-W37AR-13.0-13.5
10	5	0.0	moist	FILL		SILT, (7.5YR 6/3) light brown, low plasticity, soft, slightly moist, no odor, no staining.	133-P3C-W37AR-15.0-15.5
11		0.0	slightly moist	FILL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-W37AR-15.6-16.1
12		0.0	moist dry	PT		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-W37AR-16.1-16.6
13		0.0	moist	OL			
14							
15							
16							
17							
18							
19							
20							

PPG - PPG_LOGS_GDT - 6/24/14 16:14

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND 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: 611054.66
Date Started Drilling: 5/20/2013 2:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682399.5
Date Finished Drilling: 5/21/2013 10:20:00 AM	Core Size: 3 in	Boring Total Depth: 17 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - X35A		




(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	1.6	0.0		ASPHALT		ASPHALT	
		0.0		FILL		fine to medium silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft.	
2				NR		NO RECOVERY	
3	1.7	0.0		FILL		fine silty SAND, some medium to coarse gravel, little crushed concrete, brick, fill material, (5YR 4/4) reddish brown, non plastic, loose to soft.	
		0.0		FILL		fine silty SAND, some medium to coarse gravel, little coal, cinders, trace wood fragments, (5YR 4/4) reddish brown, non plastic, loose to soft.	
4				NR		NO RECOVERY	
5	1.4	0.0	slightly moist	FILL		ASH, some fine sand, some wood fragments, coal, little glass, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, slightly moist, no odor, no staining.	133-P3C-X35A-4.5-5.0
				NR		NO RECOVERY	
6				FILL		ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (10YR 3/2) very dark grayish brown, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-6.5-7.0
7	1.3			NR		NO RECOVERY	133-P3C-X35A-6.5-7.0X
8				FILL		ASH, some fine to medium sand, some wood fragments, coal, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-8.5-9.0
9	1			NR		NO RECOVERY	
10				FILL		ASH, some fine sand fine to medium sand, some wood fragments, coal, cinders, little ceramics, coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3C-X35A-10.5-11.0
11	1.1			NR		NO RECOVERY	
12				FILL		ASH, some fine sand fine to medium sand some wood fragments, coal, cinders, little ceramics coarse gravel, silt, (7.5YR 4/1) dark gray, non plastic loose, moist no odor no staining	133-P3C-X35A-12.5-13.0
13	1.3			NR		NO RECOVERY	
14				FILL		ASH, some fine sand, fine to medium sand, some coal, cinders, ceramics, little ceramics, (7.5YR 5/1) gray, non plastic, loose, slightly moist, no odor, no staining.	133-P3C-X35A-14.5-15.0
15	2		slightly moist	FILL		SILT, some roots, little fine sand, (7.5YR 3/2) dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3C-X35A-15.5-16.0
16				OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/1) black, medium plasticity soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-X35A-16.0-16.5
17	1	1.2	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

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	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611054.3
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682399.904
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C-X35A		

(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	4.5	0.0	dry	2	FILL		ASPHALT, (10YR 5/1) gray, dry, no odor, no staining.	
1		0.0	dry	3	FILL		fine to medium SAND, and asphalt, (10YR 2/1) black, loose, dry, no odor, no staining.	133-P3C-X35A-ME-1.0-1.5
2		0.0	dry	2	FILL		ASPHALT, some fine to medium sand, little coal fragments, (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.	133-P3C-X35A-ME-1.5-2.0
2		0.0	dry	1	FILL			
3		0.0	dry	3	FILL		CONCRETE, (9.5/2.5Y /1) white, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5
4		0.0	dry	4B	FILL		fine to medium SAND, some fine to medium gravel, little ash, trace asphalt, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	133-P3C-X35A-ME-3.0-3.5X
4		0.0	moist	3	FILL			
5	4	0.0	moist	3	FILL		ASH, some to little fine to medium sand, little COPR, trace glass, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	133-P3C-X35A-ME-5.0-5.5
6							Incinerator ASH, little glass, (10YR 6/1) gray, loose, moist, no odor, no staining.	
7							NO RECOVERY.	133-P3C-X35A-ME-6.5-7.0
7							Incinerator Ash, little glass and wood debris, (10YR 3/1) very dark gray, moist to wet, no odor, no staining, water table at 6.5 ft bgs.	
9				3	NR		NO RECOVERY.	133-P3C-X35A-ME-8.5-9.0
10								

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: 611130.8
Date Started Drilling: 5/21/2013 8:54:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682461.4
Date Finished Drilling: 5/21/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Y32A		

(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, weathered fragments, (10YR 2/1) black, non plastic, loose, slightly moist.	133-P3C-Y32A-1.0-1.5
		0.0	slightly moist	FILL		fine SAND, some angular gravel, (5YR 5/3) reddish brown, non plastic, loose, slightly moist.	
		0.0	moist	FILL		fine to medium silty SAND, some cinders, some coal, (10YR 2/1) black, non plastic, loose, moist, sheen.	
2-3	1.2	0.0		FILL		fine to medium silty SAND, some cinders, little ceramics, little fill material.	133-P3C-Y32A-3.0-3.5
				NR		NO RECOVERY	
4-5	1.8	0.0	moist	FILL		fine to medium silty SAND, some cinders, little fill material, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet.	133-P3C-Y32A-5.0-5.5
		12.6	wet	FILL		fine to coarse CINDERS, some ash, little brick, little glass, (10YR 3/1) very dark gray, non plastic, loose, wet, moderate petroleum odor, sheen.	
6-7	1.3	7.1	wet	NR FILL		NO RECOVERY	133-P3C-Y32A-6.0-6.5
				NR		ASH, some cinders, some fine to medium sand, little gravel, little fill material, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor, sheen.	133-P3C-Y32A-6.5-7.0
8-9	1.6	0.0	wet	FILL		NO RECOVERY	133-P3C-Y32A-8.0-8.5
				NR		ASH, some cinders, little sand, little coal, little fill material, (10YR 3/1) very dark gray, non plastic, loose, wet, slight petroleum odor, sheen.	133-P3C-Y32A-8.5-9.0
10-11	1.7	0.0	wet	FILL		NO RECOVERY	133-P3C-Y32A-10.0-10.5
				NR		ASH, some cinders, little coal, little fill material, (10YR 4/1) dark gray, non plastic, loose, wet, slight petroleum odor.	133-P3C-Y32A-10.5-11.0
12-13	2	0.0	wet	NR		NO RECOVERY	133-P3C-Y32A-12.0-12.5
		29.9	moist	FILL		CINDERS, little ash, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Y32A-12.5-13.0
14-15	2	1.3	moist	FILL		fine silty SAND, little ash, little roots, little fill material, (10YR 4/2) dark grayish brown, non plastic, loose, moist, slight petroleum odor, sheen.	133-P3C-Y32A-14.2-14.7
		1.6	moist	PT		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.	133-P3C-Y32A-14.3-14.8 133-P3C-Y32A-14.7-15.2 133-P3C-Y32A-14.8-15.3
16							

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: 611106.149
Date Started Drilling: 4/18/2014 4:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682438.347
Date Finished Drilling: 6/22/2015 4:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: P3C-Y33A		Surface Elevation: 12.320 ft NAVD88








Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	ASPHALT		ASPHALT, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		ASH, little fine to medium sand trace brick, trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	135-P3C-Y33A-1.0-1.5
3							
4					NR		NO RECOVERY
5	5	0.0		FILL		ASH, little fine to medium sand trace glass, trace debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	
6		0.0	moist	FILL		ASH, trace wood fragments, trace glass, trace gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
7							
8							
9							
10	5	0.0	slightly moist	FILL		ASH, little fine to medium sand trace glass, trace debris, (10YR 3/1) very dark gray, medium dense, slightly moist, no odor, no staining.	
11							
12		0.0	moist	SP		fine silty SAND, trace organics, trace gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining. Soils consistent with UNDorg.	
13							
14							
15	5	0.0	slightly moist	PT		PEAT (degraded vegetated material), (50% organic, 50% silt), (7.5YR 4/2) brown, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with MM.	133-P3C-Y33A-15.0-15.5
16		0.0		OL			
17							
18							
19							
20							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611108.65
Date Started Drilling:	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682439.141
Date Finished Drilling:	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C-Y33A		

(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	dry	3	FILL		fine to medium SAND, some asphalt, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
2		0.0	dry	4B	FILL		fine to medium SAND, little COPR, trace glass, (5YR 4/3) reddish brown, medium, dense, dry, no odor, no staining.	133-P3C-Y33A-ME-1.0-1.5
3		0.0	dry	1	FILL		CONCRETE, (9.5/2.5Y /1) white, dry, no odor, no staining.	
4		0.0	dry	3	FILL		fine to medium SAND, some coal fragments, little brick, trace wood debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	133-P3C-Y33A-ME-3.0-3.5
5		0.0	dry	3	FILL		ASH, some coal fragments, (10YR 6/1) gray, loose, dry no odor no staining, trace, viscous purple residue.	133-P3C-Y33A-ME-4.0-4.5
6	4.5	0.0	moist	3	FILL		NO RECOVERY.	
7							Incinerator ASH, some fine to medium sand, little glass, (10YR 5/1) gray, loose, moist to wet, no odor no staining, water table at 7.0 ft bgs.	133-P3C-Y33A-ME-7.0-7.5
8								
9								
10				3	NR		NO RECOVERY.	133-P3C-Y33A-ME-9.0-9.5

Comments:





Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611189.29
Date Started Drilling: 5/22/2013 1:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682533.22
Date Finished Drilling: 5/22/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Z29A		

(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	5.2	dry	ASPHALT		ASPHALT, weathered and sub-base, (10YR 2/1) black, non plastic, loose, dry.	
		2.0	moist	FILL		fine silty SAND, some brick, little asphalt, little cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist.	
2	2	0.0	moist	FILL		fine to medium silty SAND, some cinders, little brick, little gravel, (10YR 3/3) dark brown, non plastic, medium dense, moist.	
		0.0	moist	FILL		CINDERS, some ash, little concrete, little fine to medium sand, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist.	
3	1.7	337	wet	FILL		CINDERS, some ash, some fine sand, little glass, little coal, (10YR 2/1) black, non plastic, loose, wet, strong petroleum odor, sheen.	
4	1.2	15.4	wet	NR FILL		NO RECOVERY CINDERS, some ash, little glass fragments, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor.	133-P3C-Z29A-6.5-7.0
5	0.0	wet	FILL NR	FILL NR		fine silty SAND, some cinders, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	133-P3C-Z29A-6.5-7.0X
6	1	2.4	wet	FILL NR		NO RECOVERY CINDERS, some ash, some gravel, little glass, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Z29A-8.5-9.0
7	1.2	2.1	wet	FILL NR		CINDERS, some ash, little gravel, trace glass, trace metal, (10YR 4/1) dark gray, non plastic, loose, wet.	133-P3C-Z29A-10.5-11.0
8	1.3	0.0	wet	FILL NR		CINDERS, some ash, little glass fragments, little gravel, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-Z29A-12.5-13.0
9	2	0.0	wet	FILL		CINDERS, some ash, little gravel, (10YR 2/1) black, non plastic, loose, wet.	133-P3C-Z29A-14.5-15.0
10	0.0	moist	FILL	FILL		fine silty SAND, little gravel, little roots, (5YR 4/2) dark reddish gray, low plasticity, loose, moist.	133-P3C-Z29A-15.5-16.0
11	1.5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, non plastic, loose, moist, slight sulfur odor. Soils consistent with MM.	133-P3C-Z29A-16.0-16.5
12				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: 611175.505
Date Started Drilling: 6/11/2015 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.964
Date Finished Drilling: 6/11/2017	Core Size: 3 in	Boring Total Depth: 10 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: P3C-Z30A		Surface Elevation: 11.541 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	FILL		ASPHALT, (10YR 2/1) black, dry, no odor, no staining.	
2		44.0	dry	FILL		fine to medium SAND, some to little debris (glass, wood fragments), little coal fragments, trace ash, (10YR 4/2) dark grayish brown, medium dense, dry, slight chemical odor, no staining.	133-P3C-Z30A-ME-1.0-1.5
3		80.0	dry to moist	FILL		Incinerator Ash, little glass, metal and coal fragments, (10YR 4/1) dark gray, loose, dry to moist, no staining, slight fuel oil and chemical odor.	133-P3C-Z30A-ME-3.0-3.5
4				NR		NO RECOVERY	
5	2.5	500.0	moist to wet	FILL		Incinerator Ash, little shell fragments, glass, metal and wood (10YR 2/1) black stained, loose, moist to wet, sheen, strong fuel oil odor, water table at 6.0 ft bgs.	133-P3C-Z30A-ME-5.0-5.5
7							133-P3C-Z30A-ME-7.0-7.5
8				NR		NO RECOVERY	
9							
10							

Notes:

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: Entact	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611201.1
Date Started Drilling: 3/23/2016 10:15:00 AM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682498.7
Date Finished Drilling: 3/23/2016 11:00:00 AM	Core Size: 4.0 in	Boring Total Depth: 6.7 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Narula		







(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	1.2	0.0	dry	CONCRETE		Concrete (Basement slab), (9.5/2.5Y_/1) white,dry no odor,no staining.	
1	0.8	0.0	saturated,	FILL		fine to coarse SAND, some gravel, little ash,trace debris and wood,(10YR 3/1) very dark gray,loose,saturated,no odor,no staining.	135-AA30A-0.7-1.2
2			wet,	FILL		SILT,some ASH,(10YR 3/1) very dark gray,loose,wet,no odor,no staining.	
2				NR		No Recovery.	
3	2	0.0	wet,	FILL		ASH,trace gravel,and coal (10YR 5/1) gray,loose,wet,no odor,no staining.	135-AA30A-2.7-3.2
4							
5	2	0.0	wet,	FILL		ASH, trace gravel,and coal (10YR 5/1) gray,loose,wet,no odor,no staining.	135-AA30A-4.7-5.2
5			dry	PT		PEAT (70% organic fibers, 30% organic silt),(5YR 3/4) dark reddish brown,stiff,dry slight organic odor,no staining. Soils consistent with MM.	135-AA30A-5.2-5.7
6							

PPG - 2012-09 RA PPG_LOGS_A_GDT - 4/28/16 19:49

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow-Mat ("MM") Undistrubed Native Deposits ("UND") confirmed to be equal or greater than 1 ft thick 3) No CCPW (COPR or GGM) in any interval of this boring.

Project Name: PPG Garfield Ave		Drilling Company:	
Project Number: 60240739		Drilling Method:	
Date Started Drilling: 3/30/2016 11:30:00 AM		Rig Type:	
Date Finished Drilling: 3/30/2016 12:30:00 PM		Core Size: 4.0 in	
Logged By: E.Stone		Project Manager: Scott Mikaelian	
Physical Location: Narula			Surface Elevation: 1.3 ft NAVD88









Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 0.5	0.5	0.0	dry	FILL		Concrete (Basement slab), (9.5/2.5Y_/1) white, dry no odor no staining.	
0.5 - 1.5		0.0	saturated	FILL		Ash, some gravel, trace coal and wood, (10YR 5/1) gray, loose, saturated no odor no staining.	135-AA31A-0.7-1.2
1.5 - 2.0	1.5	0.0	wet	FILL		fine to medium SAND, little SILT and ash, little to trace gravel, wood and coal, (5YR 4/3) reddish brown, wet loose no odor, no staining.	
2.0 - 3.0	0.7						135-AA31A-2.5-3.0
3.0 - 4.0	2	0.0	wet	FILL		fine to medium SAND, little SILT and ash, little to trace gravel, wood and coal, (5YR 4/3) reddish brown, wet loose no odor, no staining.	
4.0 - 5.0							135-AA31A-4.5-5.0
5.0 - 5.5	1.7	0.0	wet	FILL		fine to medium SAND, little SILT and ash, little to trace gravel, wood and coal, (5YR 4/3) reddish brown, wet loose no odor, no staining.	135-AA31A-5.0-5.5
5.5 - 6.0	0.3	0.0	dry	PT		PEAT (70% organic fibers, 30% organic silt), (5YR 3/4) dark reddish brown, stiff, dry slight organic odor, no staining. Soils consistent with UNDorg.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611171.5
Date Started Drilling: 9/3/2015 11:25:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682429.6
Date Finished Drilling: 9/3/2015 12:15:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 71		

(Note bgs = below ground surface)


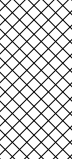
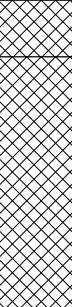
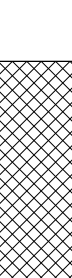
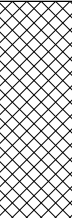




Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE,(advanced via startbit, 0.5' void space).	
2		0.0	dry	FILL		CINDERS,with ash,some coal fragments,little wood fragments,trace fine gravel,(7.5YR 2.5/1) black, loose,dry,no odor,iron oxide staining. fine SAND,(ash and cinders lens @ 4.4-5.0) trace coal fragments,(2.5YR 4/3) reddish brown,dense to, dry,no odor,iron oxide staining.	135-AA32A-1.5-2.0
3		0.0	dry	FILL			135-AA32A-3.5-4.0
4	5						
5		0.0	slightly moist	FILL		ASH,some cinders,little coal fragments,little fine sand,trace gravel,(brown silt lens @ 7.0-7.5), (7.5YR 5/1) gray, loose ,slightly moist, no odor ,iron oxide staining.	135-AA32A-5.5-6.0
6		0.0	moist	FILL		CINDERS,some fine to medium gravel,little wood fragments,fine sand,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining.	135-AA32A-7.5-8.0
7	4.0						
8		0.0	moist	FILL		CINDERS,some fine to medium gravel,little fine sand,trace wood fragments,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining,DTW @ 10.0'.	135-AA32A-9.5-10.0
9							
10							
11							
12							
13							
14				NR		NO RECOVERY.	
15	2	0.0	moist	FILL		fine SAND,some silt,(ash lens @ 15.0-15.1, black silt, little fibers @ 15.2-15.3),mottling,(10YR 5/4) yellowish brown,dense,moist,no odor,no staining. UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/3) dark brown,low plasticity soft,moist,moderate organic odor,no staining. Soils consistent with UNDorg.	135-AA32A-15.4-15.9
16		0.0	moist	OL			NO RECOVERY.
17					NR		
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611131.4
Date Started Drilling: 8/27/2015 10:50:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682358.8
Date Finished Drilling: 8/27/2015 12:10:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 65		

(Note bgs = below ground surface)


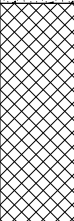
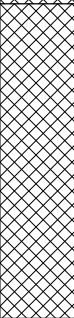





Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	3.5	0.0	dry	CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).		
2				FILL		fine to medium SAND, some cinders, little medium gravel, coal fragments, slag, mottled silt lens @ 3.8-4.1), loose, dry, no odor, no staining.	135-AA35A-1.5-2.0 135-AA35A-2.0-2.5	
3								
4	4	0.0	dry	FILL		CINDERS, some ash, little coal fragments, wood fragments, (7.5YR 2.5/1) black, loose, dry, no odor, iron oxide staining.	135-AA35A-4.0-4.5	
5				FILL		ASH, and cinders, little fine sand, trace fine to medium gravel, ceramics, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	135-AA35A-6.0-6.5	
6								
7								
8	5	0.0	moist	NR		NO RECOVERY.		
9								
10				FILL		ASH, and cinders, little fine sand, trace fine to medium gravel, ceramics, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	135-AA35A-10.0-10.5	
11								
12								
13	5	0.0	moist	FILL		SILT, trace fibers, (7.5YR 2.5/1) black, low plasticity soft, moist no odor, black staining.	135-AA35A-12.0-12.5	
14								
15								
16	5	2.3	moist	FILL		SILT, some fine sand, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining.	135-AA35A-15.4-15.9	
17				PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silts), stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-AA35A-15.9-16.4	
18				OL		UNDorg SILT, (90% organic silt, 10% organic fibers, less fibrous with depth), (7.5YR 3/2) dark brown, soft, slight organic odor, no staining. Soils consistent with UNDorg.		
19								
20								

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611121.6
Date Started Drilling: 8/28/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682332.2
Date Finished Drilling: 8/28/2015 8:01:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 65		

(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	CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).		
2				FILL		CINDERS, some ash, little brick fragments, coal slag, coal fragments (0.3' of brown sand at bottom), loose, dry, no odor, iron oxide staining.	135-AA36A-1.5-2.0	
3							135-AA36A-3.0-3.5	
4								
5	5	0.0	moist	FILL		ASH, with cinders, some fine sand, little fine gravel, wood fragments, fill material, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	135-AA36A-5.0-5.5	
6								135-AA36A-7.0-7.5
7								
8								
9							135-AA36A-9.0-9.5	
10	3	0.0	dry	FILL		ASH, with cinders, some fine gravel, fine to medium sand, (7.5YR 2.5/1) black, dry, no odor, no staining.	135-AA36A-11.0-11.5	
11								
12				wet	FILL		SILT, with fine sand, trace fibers, (2.5YR 5/1) reddish gray, soft, wet, no odor, no staining.	135-AA36A-13.0-13.5
13								
14				NR		NO RECOVERY.		
15	5	0.0	moist	FILL		SILT, and fine sand, trace fibers, medium gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.	135-AA36A-15.0-15.5	
16		2.1	moist	PT		PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining.	135-AA36A-15.5-16.0	
17		0.8	moist	OL		Soils consistent with MM. UNDorg SILT, (90% organic fibers, 10% organic silt), (10YR 4/2) dark grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.		
18								
19								
20								

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611106.4
Date Started Drilling: 9/8/2015 8:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682308.4
Date Finished Drilling: 9/8/2015 9:50:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 65		

(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		CONCRETE		CONCRETE(advanced via starbit 0.2 void space).		
2		0.0		FILL		ASH,some cinders little,coal fragments,trace fine to medium gravel,(7.5YR 2.5/1) black,loose, dry,no odor,iron oxide staining. fine to medium SAND,little fine to medium gravel,(5R 5/8) red,moist,no odor,no staining.	135-AA37A-1.0-1.5	
3		0.0	moist	FILL			135-AA37A-3.0-3.5	
4					NR		NO RECOVERY.	
5	5	2.3	moist	FILL		ASH, little coal,wood fragments,trace red fine sands,little fine gravel @ 5.0-5.5 (10YR 5/2) grayish brown,moist,no odor,no staining.	135-AA37A-5.0-5.5	
6							135-AA37A-7.0-7.5	
7							135-AA37A-9.0-9.5	
8								
9	4	0.0	wet	FILL		SILT,(trace ash and cinder lens at 10-10.2),(organic material lens at 11.0-11.4),fine gravel,(10YR 5/2) grayish brown,soft,wet,no odor,no staining, DTW @ 10.0'	135-AA37A-11.0-11.5	
10							135-AA37A-13.0-13.5	
11								
12								
13	3	0.0	wet	FILL		SILT,some fine sands interbedded with dark brown silt,trace organics,(2.5YR 4/3) reddish brown,soft,wet,no odor,no staining.	135-AA37A-15.0-15.5	
14							135-AA37A-16.4-16.9	
15		1.9	moist	PT			PEAT (degraded vegetated material),(80% organic fibers, 20% silt),(10YR 3/3) dark brown,moist,no odor,no staining. Soils consistent with MM.	135-AA37A-16.9-17.4
16							NO RECOVERY.	
17								
18								
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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611094.5
Date Started Drilling: 8/31/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682278.6
Date Finished Drilling: 8/31/2015 11:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 55		

(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 3 4	4	0.0		ASPHALT FILL		ASPHALT. degraded ASPHALT, and subbase gravel(Trap Rock),(7.5YR 2.5/1) black, loose, no odor, no staining.	135-AA38A-1.0-1.5	
		0.0	slightly moist	FILL				fine to medium SAND, with cinders, some ash, little coal, medium to coarse gravel, trace wood fragments, (7.5YR 2.5/2) very dark brown, slightly moist, no odor, no staining.
				NR				NO RECOVERY.
5 6 7 8 9 10	5	0.0	moist	FILL		fine SAND, with silt, little fine gravel, cinders, dense, moist to wet, no odor, no staining, slight black staining, DTW @ 7.0'.	135-AA38A-5.0-5.5	
		0.0	moist	FILL				fine SAND, with silt, little fine gravel, (7.5YR 3/4) dark brown, dense, moist, no odor, no staining.
11 12 13 14 15	5	0.0	wet	FILL		fine to medium SAND, with silt, little medium gravel, trace ash, cinders lens @ 13.0-13.5, (7.5YR 4/2) brown, wet to saturated, no odor, no staining.	135-AA38A-11.0-11.5	
		0.0	moist	FILL				SILT, with fine sand, interbedded with fine to medium gravel, trace clay orange mottling, (7.5YR 4/2) brown, low plasticity soft, moist to saturated, no odor, no staining.
16 17 18	5	0.0	moist	FILL		SILT, and fine sand, interbedded with fine to medium gravel, trace clay, orange mottling, (7.5YR 4/2) brown, low plasticity soft, moist to saturated, no odor, no staining.	135-AA38A-15.0-15.5	
		2.3	moist	PT				
19 20						UNDorg SILT, (80% organic silt, 20% organic fibers, less fibrous with depth) (10YR 4/2) dark grayish brown, stiff, moist slight organic odor no staining. Soils consistent with UNDorg.		

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: Eichelberger/Terra Probe Incorporated		
Project Number: 60240739	Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSPNAD83) x: 611196.6	
Date Started Drilling: 12/14/2006	Rig Type:	Coordinates (NJSPNAD83) y: 682514.8	
Date Finished Drilling: 1/3/2007	Core Size: 12 in	Boring Total Depth: 32 ft	
Logged By: P. Kelly, M. Merdinger	Project Manager: Scott Mikaelian		Depth to Water:
Physical Location: Narula Property			Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			dry	FILL		Topsoil.	
			dry	FILL		Wood planks and coarse Gravel.	
2			dry	FILL		Dark Brown coarse SAND, some fine Gravel, little glass peices.	135-B2A (0.9-1.4)J49295-7
3			dry	FILL		Gray coarse SAND, ASH, some fine Gravel, little glass pieces, trace roots	135-B2B (2.1-2.6)J49295-8
4			wet	FILL		Black stained, Brown fine to coarse GRAVEL, some Ash, organics, wet. Strong coal tar odor.	135-B2C (3.4-3.8)J49295-9
			wet	FILL		Very dark Gray (7.5YR 3/1) medium to coarse SAND, little Silt, wet. Slight naphthalene odor.	
5			wet	FILL		Brown (7.5YR 4/2) SILT, some large wood pieces, wet, loose. No odor.	135-B2D (4.5-5.0)J49295-10
			wet	FILL		Gray (7.5YR 5/1) ASH, some Fill materials (ceramics, tile, coal, glass), trace Silt and Clay, wet, loose. No odor.	
6			wet	NR		No Recovery	
9			wet	FILL		Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (metal, wood pieces, shell fragments), trace Silt and Clay, wet, loose. No odor.	135-B2E
			wet	NR		No Recovery	
13			wet	FILL		Gray (7.5YR 5/1) ASH, some heavily broken mixed Fill materials (some coal tar, glass), trace Silt and Clay, wet, loose. No odor.	135-B2F
14			wet	FILL		Black stained CLAY, coal tar, wet, soft. No odor.	135-B2G
15			wet	FILL		Pale Brown (10YR 6/3) and light Gray (10YR 7/1) mottled CLAY, some gray-mint greenish staining, moist, soft, slightly chalky. No odor.	
16			wet	NR		No Recovery	
17			wet	PEAT		PEAT, very organic, water has a slight sheen, wet, soft. Strong sulfur odor.	135-B2H
19			wet	NR		No Recovery	
20			moist	CLAY		Dark Gray (5Y 4/1) organic CLAY, trace organics, moist, soft. Sulfur odor.	135-B2I

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDOrg - organic undisturbed native deposits CCPW - chromate chemical production waste


Comments:



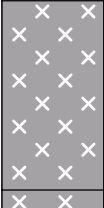
Project Name: PPG Garfield Ave	Drilling Company: Eichelberger/Terra Probe Incorporated	
Project Number: 60240739	Drilling Method: Soft Dig/GeoProbe	Coordinates (NJSPNAD83) x: 611196.6
Date Started Drilling: 12/14/2006	Rig Type:	Coordinates (NJSPNAD83) y: 682514.8
Date Finished Drilling: 1/3/2007	Core Size: 12 in	Boring Total Depth: 32 ft
Logged By: P. Kelly, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23			moist	SILT		Dark Gray (5Y 4/1) SILT, some very fine Sand, moist, medium dense. Sulfur odor.	135-B2J
24			moist	NR		No Recovery	
25			moist wet	SAND AND SILT		Dark Gray (5Y 4/1) SILT and medium to coarse SAND, trace Clay, moist, loose. Slight sulfur odor.	
26			moist	SILTY SAND		Dark Gray (5Y 4/1) very fine silty SAND, wet, loose. Slight sulfur odor.	
27			wet	CLAY AND SAND SAND		Dark Gray (5Y 4/1) medium sandy CLAY, moist, medium stiff. No odor.	
28			wet	NR		No Recovery	
29			wet	SILT AND CLAY		Reddish Brown (5YR 4/3) silty CLAY, little fine to medium Sand, wet, loose. No odor.	
30			wet	SAND		Grayish Brown (10YR 5/2) fine to medium SAND, little interbedded Clay, wet, loose. No odor.	
31			wet	SILTY SAND		Weak Red (10R 5/4) very fine SAND (silty), wet, medium dense. No odor.	
32			wet	NR		No Recovery	
			wet	NULL		End of Boring at 32 ft.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste


Comments:


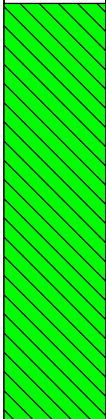
		Client: PPG Industries	BORING ID: 135-B3		
		Site: Site 135			
Start Date: 1/26/2007	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-610977.8 Y-682312.2		Depth of Boring: 28.00		
End Date: 1/26/2007	Elevation: 9.3 ft NAVD88		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		FILL: Very Dark Gray (5Y 3/1) coarse SAND, some fine gravel-sized COPR (15%), trace silty Clay and brick fragments, dry.	0.0 ppm	135-B3A (1.1-1.6)	Cr+6, TAL Metals	
2			0.0 ppm			
			0.0 ppm			
4			91.3 ppm	135-B3B (3.4-4.0)	Cr+6, TAL Metals	
		FILL: Black (10YR 2/1) ASH, some fine to medium Gravel, little ceramic fragments, wet. Sheen and strong MGP odor.	45.1 ppm			
6						
		NR: No Recovery				
8		FILL: Black (10YR 2/1) ASH, some fine to medium Gravel, little ceramic fragments, wet. Sheen and strong MGP odor.	72.1 ppm			

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.

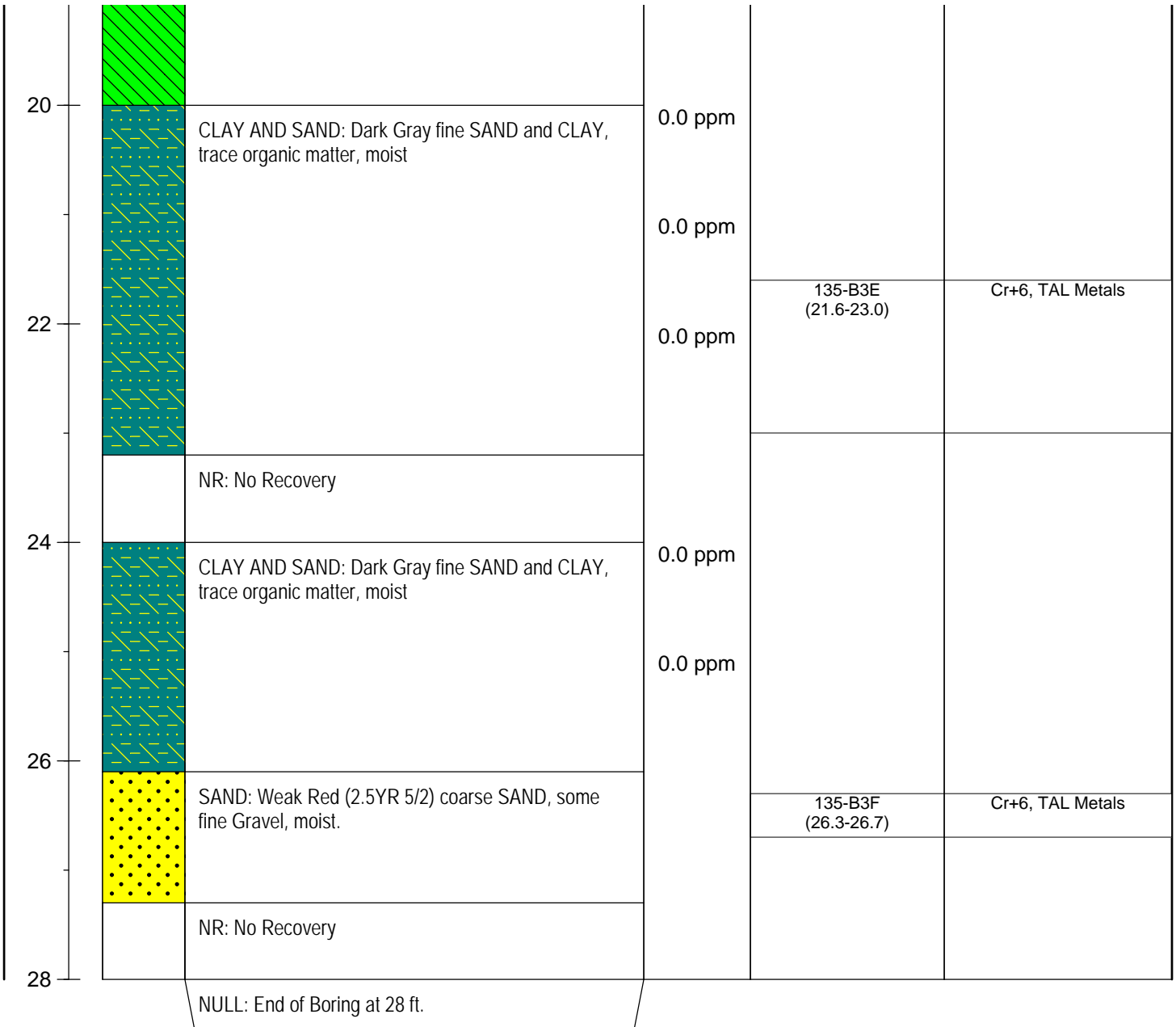
	Client: PPG Industries		BORING ID: 135-B3		
	Site: Site 135				
Start Date: 1/26/2007	Project: Site Investigation		Page: 2 of 3		
	Coordinates: X-610977.8 Y-682312.2		Depth of Boring: 28.00		
End Date: 1/26/2007	Elevation: 9.3 ft NAVD88		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Very Dark Grayish Brown (10 YR 3/2) SILT and CLAY, some Black organic matter, trace fine to coarse Gravel. NR: No Recovery	NA	135-B3C (10.5-10.8)	Cr+6, TAL Metals
12					
14					
16		CLAY: Dark Gray (5G 4/1) CLAY, little organic matter, firm, moist.	0.0 ppm	135-B3D (16.0-16.1)	Cr+6, TAL Metals
			0.0 ppm		
18			0.0 ppm		

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

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	Client: PPG Industries		BORING ID: 135-B3		
	Site: Site 135				
Start Date: 1/26/2007	Project: Site Investigation		Page: 3 of 3		
	Coordinates: X-610977.8 Y-682312.2		Depth of Boring: 28.00		
End Date: 1/26/2007	Elevation: 9.3 ft NAVD88		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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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611271.1
Date Started Drilling: 8/21/2015 11:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682559.2
Date Finished Drilling: 8/21/2015 11:19:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 83 (Alley)		

(Note bgs = below ground surface)


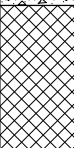






Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT.	135-BB27A-0.3-0.8
		0.0	dry	FILL		fine to medium SAND,with fine to medium gravel,little ash,cinders,(7.5YR 3/2) dark brown,loose,dry,no odor,no staining.	135-BB27A-2.0-2.5
		0.0	dry	FILL		ASH,and cinders some fine to medium sand,(10YR 4/2) dark grayish brown,loose,dry,no odor,oxidation staining.	
2	5			FILL		fine to medium SAND,little fill material,ash and cinders lens @ 4.5-5.0, loose,slightly moist,moderate petroleum odor,hydrocarbon staining.	135-BB27A-4.0-4.5
3		53.4	slightly moist	FILL			
4				FILL			
5	3.5	93.4	moist	FILL		ASH, and cinders,some fine to medium sand,fill material, glass fragments,wood fragments,moist to wet,slight hydrocarbon odor,hydrocarbon staining, slight sheen on water, DTW @ 7.0' bgs	135-BB27A-6.0-6.5
6				FILL			
7		5.2	moist	FILL		ASH, and cinders some fine to medium sand,fill material,glass fragments,wood fragments,moist to wet slight,hydrocarbon odor,hydrocarbon staining, slight sheen on water	135-BB27A-8.0-8.5
8				NR		NO RECOVERY.	
9							
10	5	0.0	moist	FILL		ASH, and cinders,some fine gravel,fill material,(7.5YR 5/1) gray,loose,moist,no odor,no staining.	135-BB27A-10.0-10.5
11				FILL			
12				FILL			
13				FILL		SILT,some fine sand little ash,wood fragments,fill material,fibers,fine gravel,(7.5YR 3/1) very dark gray,moist,no odor, black staining.	135-BB27A-14.0-14.5
14	5	0.0	moist	FILL		SILT,and fine sand,little fine gravel,trace roots,(5YR 4/2) dark reddish gray, soft,moist to wet,no odor,no staining.	135-BB27A-15.5-16.0
15				PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown,stiff,moist moderate organic odor. Soils consistent with MM.	135-BB27A-16.0-16.5
16		3.2	moist	PT			
17		1.4	moist	OL		UNDorg SILT,(90% organic silt, 10% organic fibers), low plasticity soft, moist,slight organic odor,no staining. Soils consistent with UNDorg.	
18		2.1	moist	OL		UNDorg SILT, (70% organic silt, 30% organic fibers), low plasticity soft,moist slight organic odor, no staining. Soils consistent with UNDorg.	
19				OL		UNDorg SILT, (90% organic silt, 10% organic fibers), low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611258.3
Date Started Drilling: 9/17/2015 8:50:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682531.5
Date Finished Drilling: 9/17/2015 12:15:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 83		

(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			CONCRETE		CONCRETE, (advanced via starbit, 0.4' of void space).	
2		0.0	slightly moist	FILL		ASH, some cinders, little wood fragments, coal fragments, trace brick fragments, (7.5YR 2.5/1) black, slightly moist, loose, iron oxide staining.	135-BB28A-1.2-1.7
3							
4					NR		NO RECOVERY.
5	5	11.3	moist	FILL		ASH, some cinders, little wood fragments (creosote odor), (7.5YR 4/1) dark gray, loose, moist, slight black staining.	135-BB28A-5.5-6.0
6		202	moist	FILL		ASH, some cinders, little wood fragments (petroleum impacts @ 6.5-7.0), (10YR 4/1) dark gray, loose, moist, moderate petroleum odor, sheen.	
7		9.1	moist	FILL		fine SAND, little silt, (2.5YR 5/1) reddish gray, moist, soft, no odor, no staining.	135-BB28A-7.5-8.0
8							
9							
10	5	0.0	moist	FILL		ASH, some cinders, little fine to medium gravel, trace fine sand, wood fragments (creosote odor) (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-BB28A-9.5-10.0
11							
12							
13							
14							
15	3	0.0	moist	FILL		fine to medium SAND, trace ash, (2.5YR 4/1) dark reddish gray, dense, moist to wet, no odor, no staining.	135-BB28A-15.8-16.3
16		2.7	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.	135-BB28A-16.3-16.8
17							
18				NR		NO RECOVERY.	
19							
20							

PPG - 2012-09 RA PPG_LOGS_A_GDT - 9/28/15 11:53

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: Entact	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611210.3
Date Started Drilling: 3/23/2016 1:00:00 PM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682444.5
Date Finished Drilling: 3/23/2016 1:30:00 PM	Core Size: 4.0 in	Boring Total Depth: 6.7 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Narula		

(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	1.2	0.0	dry	CONCRETE		Concrete (Basement slab), (9.5/2.5Y_/1) white, dry no odor, no staining.	135-BB31A-0.7-1.2
		0.0	wet	FILL		Ash, little silt, trace wood, debris and coal, (10YR 5/2) grayish brown, non plastic loose, wet no odor, no staining.	
2	1.5	0.0	saturated	FILL		fine to coarse SAND, some gravel (10YR 4/3) brown, loose, saturated no odor, no staining.	135-BB31A-2.7-3.2
3	2.5	0.0	saturated	FILL		fine to coarse SAND, some gravel, trace ash (10YR 4/3) brown, loose, saturated no odor no staining.	
4		1.5	0.0	dry	PT		PEAT (70% organic fibers, 30% organic silt), (5YR 3/4) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.
5	1.5		0.0	dry	PT		PEAT (70% organic fibers, 30% organic silt), (5YR 3/4) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.
6							

PPG - 2012-09 RA PPG_LOGS_A_GDT - 4/28/16 19:49

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow-Mat ("MM") Undistrubed Native Deposits ("UND") confirmed to be equal or greater than 1 ft thick 3) No CCPW (COPR or GGM) in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611202.3
Date Started Drilling: 9/15/2015 8:40:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682425.9
Date Finished Drilling: 9/15/2015 10:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 11.0
Physical Location: Former Narula Property - Bld 71		

(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	slightly moist	CONCRETE		CONCRETE, (advanced via starbit, void space 0.5')		
2				FILL		ASH,with cinders,some coal fragments,little wood fragments,(10YR 3/6) dark yellowish brown,loose,slightly moist,no odor,iron oxide staining.	135-BB32A-1.3-1.8	
3								135-BB32A-3.0-3.5
4				NR		NO RECOVERY.		
5	5	0.0	moist	FILL		ASH, some cinders, little fine to medium gravel, ceramics, (7.5YR 4/1) dark gray, loose, moist,no odor,no staining.	135-BB32A-5.0-5.5	
6								135-BB32A-7.0-7.5
7								135-BB32A-9.0-9.5
8								
9	4	0.0	wet	FILL		ASH, some fine to medium gravel,little cinders,trace wood fibers(slight cerosote odor), loose,wet,no odor,slight black staining,DTW @ 11.0.	135-BB32A-11.0-11.5	
10								135-BB32A-13.0-13.5
11								
12				NR		NO RECOVERY.		
13	3	0.0	moist	FILL		ASH,little cinders,fine to medium sand,fine to medium gravel,trace ceramics,(7.5YR 5/1) gray,loose,moist,no odor,no staining.	135-BB32A-15.0-15.5	
14				FILL		fine to medium SAND,trace fibers,cinders,slight mottling,(10YR 4/2) dark grayish brown,dense,moist,no odor,slight black staining.	135-BB32A-15.5-16.0	
15				PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown,stiff,moist,moderate organic odor,no staining. Soils consistent with MM.	135-BB32A-16.0-16.5	
16				NR		NO RECOVERY.		
17								
18								
19								
20								

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/3/15 13:33

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611187.2
Date Started Drilling: 9/4/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682398.8
Date Finished Drilling: 9/4/2015 9:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 71		

(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		CONCRETE		crushed CONCRETE(advnaced via starbit, 0.5 void space)	
		0.0					
		0.0	dry	FILL		CINDERS,some ash,trace fine to medium sands,gravel,coal,(10YR 5/1) gray,dry,no odor,no staining.	135-BB33A-1.3-1.8
2							
3							
4				NR		NO RECOVERY.	135-BB33A-3.3-3.8
5							
6	5	0.0	slightly moist	FILL		CINDERS,trace ash,coal,ceramics,(10YR 5/1) gray,loose,slightly moist,no odor,no staining.	135-BB33A-5.3-5.8
7							135-BB33A-7.3-7.8
8							
9							
10							
11	5	0.0	moist	FILL		CINDERS,trace coal,ash,wood fragments, (10YR 5/1) gray,loose,moist,no odor,no staining.	135-BB33A-9.3-9.8
12							135-BB33A-11.3-11.8
13							
14							
15							
16	5	0.0	moist	FILL		CINDERS,trace ash,fine sand,coal, (10YR 6/1) gray,loose,moist,no odor,no staining.	135-BB33A-15.3-15.8
17		0.0	moist	FILL		fine to medium SAND,and silt,trace gravel,(10YR 4/1) dark gray,low plasticity,medium dense to soft,moist,no odor,no staining.	135-BB33A-16.5-17.0
18		0.0	moist	PT		PEAT (degraded vegetated material), (70% organics fibers, 30% organic silt), (10YR 4/3) brown,low plasticity, medium dense,moist,moderate organic odor,no staining.	135-BB33A-17.0-17.5
19		0.0	moist	OL		Soils consistent with MM.	
20						UNDorg SILT, (70% organic silt,30% organics fibers), (10YR 4/3) brown, low plasticity, medium dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:02

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611171.7
Date Started Drilling: 9/8/2015 10:15:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682370
Date Finished Drilling: 9/8/2015 11:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 71		




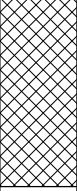
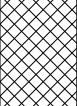



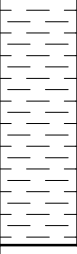
(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		CONCRETE		CONCRETE, (advanced via starbit, 0.5 void space.)	
2		0.0	dry	FILL		ASH, and cinders, little coal fragments, trace weathered brick, glass fragments, (10YR 6/1) gray, dry, no odor, iron oxide staining.	135-BB34A-1.5-2.0
3							135-BB34A-3.0-3.5
4					NR		NO RECOVERY.
5	5	0.0	slightly moist	FILL		ASH, and cinders, little coal fragments, (red fine sands lens @ 5.3 to 5.5), trace glass fragments, (10YR 5/1) gray, slightly moist, no odor, iron oxide staining.	135-BB34A-5.0-5.5
6		0.0	moist	FILL		ASH, and cinders, some coal fragments, trace wood fragments, trace glass fragments, (10YR 2/1) black, moist, slight hydrocarbon odor, no staining.	135-BB34A-7.0-7.5
7							135-BB34A-9.0-9.5
8	5	0.0	wet	FILL		ASH, and cinders, some coal fragments, some fine to medium gravel, trace glass fragments, (10YR 2/1) black, wet, no odor, no staining, DTW @ 10.0'.	135-BB34A-11.0-11.5
9		0.0	wet	FILL		fine to medium SAND, and silt, little coarse gravel (cinders lens @ 13.0-13.2), (5YR 4/3) reddish brown, wet, no odor, no staining.	135-BB34A-13.0-13.5
10							
11	2	0.0	wet	FILL		fine to medium SAND, and silt, little coarse gravel, (5YR 4/3) reddish brown, wet, no odor, no staining.	135-BB34A-15.0-15.5
12		1.2		OL		UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 5/2) grayish brown, stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	135-BB34A-15.5-16.0
13					NR		NO RECOVERY.
14							
15							
16							
17							
18							
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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611146.4
Date Started Drilling: 9/2/2015 8:05:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682362.2
Date Finished Drilling: 9/2/2015 8:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 71		

(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		FILL		Subbase Gravel (Trap Rock).	
		0.0	dry	FILL		ASH, and cinders, some coal slag, coal fragments, little fine gravel, fine sand, (7.5YR 5/1) gray, dry, no odor, iron oxide staining, blue stained sand aggregate @ 1.8-2.0.	
2				NR		NO RECOVERY.	
3							
4							
5	3	0.0	moist	FILL		ASH, some cinders, little fine sand, fine gravel, wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-BB35A-6.0-6.5
6							
8				NR		NO RECOVERY.	
9							
10	5	0.0	saturated	FILL		fine to coarse SAND, some silt, little fine to medium gravel, (11.0-11.9 black wood fragments, no silt, no sand), (7.5YR 4/2) brown, loose, saturated, no odor, no staining, DTW @ 10.0'.	135-BB35A-10.0-10.5
11							
12		0.0	moist	FILL		SILT, interbedded with fine sand, some mottling, (2.5YR 5/3) reddish brown, soft, moist, no odor, no staining.	
13							
14							
15	5	0.0	moist	FILL		SILT, interbedded with fine sand, some mottling, (2.5YR 5/3) reddish brown, moist, soft, no odor, no staining.	135-BB35A-14.9-15.4
16		2.1	moist	PT		PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt), (7.5YR 3/3) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.	135-BB35A-15.4-15.9
17		1.6	moist	OL		UNDorg silt, (90% organic fibers, 20% organic silt, less fibrous with depth) (10YR 4/2) dark grayish brown, moist, slight organic odor, no staining. Soils consistent with UNDorg.	135-BB35A-15.9-16.4
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: Direct Push	Coordinates (NJSPNAD83) x: 611161.4
Date Started Drilling: 2/25/2016 12:30:00 PM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682345.3
Date Finished Drilling: 2/25/2016 2:00:00 PM	Core Size: 4.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Narula		

(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	3.5	0.0	dry	ASPHALT		ASPHALT, (10YR 2/1) black, dry no odor, no staining. Road sub-base, fine to medium SAND, some gravel, (10YR 4/3) brown, dry no odor no staining.	
		0.0	dry	ASPHALT			
		0.0	dry	FILL		fine to medium SAND, little coal, trace brick and ash, (5YR 3/2) dark reddish brown, medium dense, dry no odor, no staining.	135-BB35AR-1.0-1.5
2							135-BB35AR-3.0-3.5
3							
4				NR		NO RECOVERY.	
5							
6	5	0.0	moist	FILL		fine to medium SAND, some ash, trace coal, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. Depth to Water @ 5.5 ft bgs. SILT, some gravel, trace fine sand, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-5.0-5.5
		0.0	wet	FILL			135-BB35AR-7.0-7.5
							135-BB35AR-9.0-9.5
							135-BB35AR-11.0-11.5
7							
8							
9							
10							
11	5	0.0	saturated	FILL		SILT, little fine sand, trace wood, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-13.0-13.5
							135-BB35AR-14.0-14.5
							135-BB35AR-14.5-15.0
							135-BB35AR-15.0-15.5
							135-BB35AR-15.5-16.0
12							
13	5	0.0	dry	PT		PEAT (70% Organic fibers, 30% organic silt), (5YR 4/2) dark reddish gray, soft to medium stiff, dry, no odor, no staining. Soils consistent with MM	135-BB35AR-16.0-16.5
		0.0	moist	OL			UNDorg, (80% organic silt, 20% organic fibers), (10YR 4/2) dark grayish brown, moist no odor no staining. Soils consistent with UNDorg.
14							
15							
16							
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/4/16 17:05

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow Mat ("MM")/Undisturbed Native Deposits ("UND") confirmed to be equal to or greater than 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: Direct Push	Coordinates (NJSPNAD83) x: 611148.9
Date Started Drilling: 2/25/2016 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682318
Date Finished Drilling: 2/25/2016 12:20:00 PM	Core Size: 4 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula		Surface Elevation: 11.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	ASPHALT		ASPAHLT, (10YR 2/1) black, dry no odor no staining.	
2		0.0	dry	ASPHALT		Road sub-base, fine to coarse SAND, some gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	135-BB36A-1.5-2.0
3		0.0	dry	FILL		ASH, trace brick, (7.5YR 2.5/1) black, dense, dry, no odor, no staining.	
4		0.0	dry	FILL		fine to medium SAND, little gravel, trace wood debris, (10YR 5/2) grayish brown, dense, dry, no odor, no staining.	135-BB36A-3.5-4.0
5				NR		ASH, some wood, (10YR 3/1) very dark gray, loose, dry, no odor, no staining. NO RECOVERY.	
6	3.5	0.0	dry	FILL		ASH, trace fill debris and coal fragments, (7.5YR 2.5/1) black, dry, no odor, no staining.	135-BB36A-5.5-6.0
7		0.0	wet	FILL		fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Depth to Water 5.5 ft bgs.	
8				NR		NO RECOVERY.	135-BB36A-7.5-8.0
9							
10	4.5	0.0	wet	FILL		Silt, some gravel, little fine sand, (5YR 4/3) reddish brown, wet, no odor, no staining.	135-BB36A-9.5-10.0
11							
12							135-BB36A-11.5-12.0
13		0.0	dry	FILL		fine to medium SAND, trace ash, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	135-BB36A-13.5-14.0
14		0.5	dry	PT		PEAT (80% organic fibers, 20% organic silt), (5YR 3/4) dark reddish brown, stiff, dry slight organic odor no staining.	135-BB36A-14.0-14.5
15				NR		NO RECOVERY.	
16	5	0.5	dry	PT		PEAT (80% organic fibers, 20% organic silt), (5YR 3/3) dark reddish brown, stiff, dry slight organic odor no staining.	
17		0.0	dry	OL		UNDorg (80% organic silt, 20% organic fibers), (10YR 5/2) grayish brown, medium stiff, dry no odor no staining.	
18							
19							
20							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: Direct Push	Coordinates (NJSPNAD83) x: 611283.3
Date Started Drilling: 2/25/2016 8:30:00 AM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682519.3
Date Finished Drilling: 2/25/2016 9:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Narula		

(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	4.5	0.0	dry	1	CONCRETE		CONCRETE, (9.5/2.5Y_1) white, dry, no odor, no staining.	
2		0.0	dry	3	FILL		ASH, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-CC28A-2.0-2.5
3		0.6	dry	3	FILL		CINDERS, some coal fragments, trace ash, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
4		0.0	dry	3	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	135-CC28A-4.0-4.5
5	3.5			3	NR		NO RECOVERY.	
6		45.0	moist	3	FILL		ASH, little cinders, trace porcelain, (10YR 5/1) gray, loose, moist to wet, moderate petroleum odor, product staining and sheen from 5.0-6.0 ft bgs, free product observed from 6.0-7.0 ft bgs, Depth To Water @ 6.0 ft bgs.	135-CC28A-6.0-6.5
7		2.5	wet	3	FILL		SILT, little gravel, little to trace fine sand, (5YR 4/3) reddish brown, soft, wet, slight petroleum odor, product smearing/staining.	
8		0.0	wet	3	FILL		ASH, trace glass and coal, (10YR 5/1) gray, wet, no odor, no staining.	135-CC28A-8.0-8.5
9				3	NR		NO RECOVERY.	
10	5	0.0	wet	3	FILL		ASH, little wood, trace glass, (10YR 5/1) gray, loose, wet, no odor, no staining.	135-CC28A-10.0-10.5
11								
12								135-CC28A-12.0-12.5
13								
14								135-CC28A-14.0-14.5
15	5	0.0	moist	3	FILL		ASH, some cinders, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	
16								135-CC28A-16.0-16.5
17								
18								135-CC28A-18.0-18.5
19		0.0	moist	3	FILL		Silt, little fill debris, trace wood, (2.5YR 4/2) weak red, soft, moist, no odor, no staining.	135-CC28A-18.5-19.0
		0.5	slightly moist	7	PT		PEAT (80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, medium stiff, slightly moist, slight	135-CC28A-19.0-19.5

PPG - 2012-09 RA PPG LOGS - A.GDT - 4/18/16 08:21

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow Mat ("MM")/Undisturbed Native Deposits ("UND") confirmed to be equal to or greater than 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

Boring ID: 135-CC28A

Page: 2

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611283.3
Date Started Drilling: 2/23/2016 8:30:00 AM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682519.3
Date Finished Drilling: 2/25/2016 9:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Narula		

(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
							organic odor, no staining. Soils consistent with MM	

PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/18/16 08:21

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow Mat ("MM")/Undisturbed Native Deposits ("UND") confirmed to be equal to or greater than 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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611258.1
Date Started Drilling: 9/17/2015 10:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682469.8
Date Finished Drilling: 9/17/2015 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: M. Irving	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 77		

(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	slightly moist	CONCRETE		CONCRETE, (advanced via starbit, 0.5 void space).			
2				FILL		CINDERS, little ash and fine to medium sand, trace metal slag, coal fragments, (7.5YR 2.5/1) black, slightly moist, no odor, iron oxide staining.	135-CC30A-1.5-2.0		
3									
4				NR			NO RECOVERY.		135-CC30A-3.5-4.0
5	5	0.0	moist	FILL		ASH, some cinders, little wood fragments, fine to medium gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-CC30A-5.5-6.0		
6									
7				FILL		ASH, some cinders, little wood fragments, (petroleum impacts @ 6.5-7.0), (7.5YR 5/1) gray, loose, moist, moderate petroleum odor, hydrocarbon staining.			
8				FILL		ASH, some cinders, little fine sand, wood fragments (creosote odor) (7.5YR 4/1) dark gray, loose, moist, black staining.			
9	4	3.4	moist						
10				FILL		ASH, little cinders and wood fragments (creosote odor), trace fine to medium gravel, (7.5YR 2.5/1) black, loose, moist to saturated, no staining.		135-CC30A-9.5-10.0	
11									
12									
13	3	0.0	moist						
14				NR		NO RECOVERY.			
15				FILL		ASH, some cinders, little fine to medium gravel, trace ceramics, wood fragments (creosote odor), (7.5YR 4/1) dark gray, moist, black staining.		135-CC30A-15.5-16.0	
16				FILL		fine to medium SAND, trace ash, cinders, (10YR 4/2) dark grayish brown, loose, moist to wet, no odor, no staining.		135-CC30A-16.2-16.7	
17	3.1	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.		135-CC30A-16.7-17.2		
18				NR		NO RECOVERY.			
19									
20									

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: Direct Push	Coordinates (NJSPNAD83) x: 611242.6
Date Started Drilling: 2/25/2016 9:30:00 AM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682439.1
Date Finished Drilling: 2/25/2016 10:20:00 AM	Core Size: 4.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Narula		

(Note bgs = below ground surface)

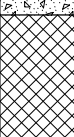
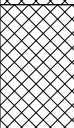






Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	CONCRETE		CONCRETE, (9.5/2.5Y_/1) white, dry no odor no staining.	
2		0.0	dry	FILL		ASH, little cinders, (10YR 5/1) gray, loose, dry no odor no staining.	135-CC31A-2.0-2.5
3		0.0	dry	FILL		fine to medium SAND, some concrete, little ash, (10YR 4/3) brown, dense, dry, no odor, no staining.	135-CC31A-4.0-4.5
4	3.5	0.0	dry	FILL		ASH, trace coal fragments, (9.5/2.5Y_/1) white, loose, dry no odor no staining.	
5		3.5	moist	FILL		fine to medium SAND, little cinders, trace silt, (5YR 4/3) reddish brown, moist, slight petroleum odor, no staining.	135-CC31A-6.0-6.5
6		31.0	wet,	FILL		ASH, some wood, little fill debris, (10YR 3/1) very dark gray, wet, moderate petroleum odor, petroleum staining, Depth to Water @ 6.5 ft bgs.	
7		4.4	slightly moist	FILL		ASH, little cinders, trace fill debris, (10YR 5/1) gray, loose, slightly moist, slight petroleum odor, no staining.	135-CC31A-8.0-8.5
8				NR		NO RECOVERY.	
9	4.5	0.0	slightly moist	FILL		ASH, some cinders, (10YR 2/1) black, loose, slightly moist, no odor, no staining.	135-CC31A-10.0-10.5
10		0.0	wet	FILL		ASH, (10YR 5/1) gray, loose, wet no odor no staining.	
11							135-CC31A-12.0-12.5
12		0.0	moist	FILL		SILT, little wood, trace gravel and organics (grass), (2.5YR 4/3) reddish brown, soft, moist, no odor, no staining.	135-CC31A-14.0-14.5
13	4.5	0.0	wet	FILL		NO RECOVERY. silty SAND, little fill debris, (5YR 4/3) reddish brown, soft, wet to saturated, no odor, no staining.	135-CC31A-16.0-16.5
14		0.0	dry	PT		PEAT (80% organic fibers, 20% organic silt), (5YR 3/2) dark reddish brown, stiff, dry moderate organic odor no staining. Soils consistent with MM	135-CC31A-16.5-17.0
15							
16					NR		NO RECOVERY.
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 4/4/16 17:05

Comments: 1) 3 attempts were made to obtain best recovery 2) Meadow Mat ("MM")/Undisturbed Native Deposits ("UND") confirmed to be equal to or greater than 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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611238.7
Date Started Drilling: 9/1/2015 8:42:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682416.7
Date Finished Drilling: 9/1/2015 9:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - Bld 77		

(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		ASPHALT		ASPHALT.	
		0.0		ASPHALT		degraded ASPHALT.	
		0.0		CONCRETE		crushed CONCRETE.	
		2.1	moist	FILL		fine to medium SAND, with cinders, some coal, (7.5YR 2.5/1) black, moist, slight hydrocarbon odor, iron oxide and hydrocarbon staining.	135-CC32A-1.0-1.5
2						135-CC32A-2.0-2.5	
3		58.3	moist	FILL		fine to medium SAND, and fine to medium gravel, some cinders, little concrete, moist, loose, moderate petroleum odor, hydrocarbon staining.	135-CC32A-4.0-4.5
4							
5	4	0.0	moist	FILL		SILT, and fine sand, little fine to medium gravel, trace coal fragments, cinders, (7.5YR 4/2) brown, soft, moist, no odor, no staining.	135-CC32A-6.0-6.5
6		0.0	wet	FILL		SILT, and fine to medium sand, trace fine to medium gravel, (2.5YR 5/3) reddish brown, soft, wet to saturated, no odor, no staining, DTW @ 6.4'.	135-CC32A-8.0-8.5
7							
8					NR		NO RECOVERY.
9							
10	5	0.0	wet	FILL		SILT, with fine to medium sand, little fine to medium gravel, (2.5YR 5/3) reddish brown, soft, wet, no odor, no staining.	135-CC32A-10.0-10.5
11							
12							
13							
14							
15		0.0	saturated	FILL		fine to medium SAND, and silt, little fine to medium gravel, (7.5YR 4/3) brown, loose, saturated, no odor, no staining.	135-CC32A-15.5-16.0
16		3.2	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff, moist moderate organic odor. Soils consistent with MM.	135-CC32A-16.0-16.5
17	5	1.6	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (7.5YR 3/3) dark brown, soft, moist slight organic odor no staining. Soils consistent with UNDorg.	
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611336.9
Date Started Drilling: 9/16/2015 10:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682559.6
Date Finished Drilling: 9/16/2015 11:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 99		

(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		CONCRETE, (advanced via starbit, 0.2 void space).	
2		0.0	moist	FILL		CINDERS, some metal slag, little fine sand, trace ash, (7.5YR 2.5/1) black, loose, dry, no odor, iron oxide staining.	135-DD26A-1.0-1.5
3	5	28.1	moist	FILL		ASH, some cinders, little coal fragments, wood fragments, trace fine sand, concrete fragments, (10YR 4/2) dark grayish brown, loose, moist, no odor, iron oxide staining.	135-DD26A-3.0-3.5
4							
5	4	0.0	moist	FILL		ASH, some cinders, little coal fragments, wood fragments (creosote odor), trace fine sand, (10YR 4/2) dark grayish brown, loose, moist, iron oxide staining.	135-DD26A-5.0-5.5
6							
7							
8	3	2.1	moist	PT		ASH, little wood fibers (creosote odors), trace coal fragments, (7.5YR 2.5/1) black, loose, no staining.	135-DD26A-7.0-7.5
9							
10	3	2.1	moist	PT		ASH, some fine to medium gravel, little sand and cinders, trace ceramics, brick fragments, (black wood fibers with creosote odor @ 10.5-11.0), (10YR 4/2) dark grayish brown, loose, moist, no staining.	135-DD26A-9.0-9.5
11							
12	3	2.1	moist	PT		ASH, some fine to medium gravel, little silt, (wood with creosote odor @ 15.5-16.0 feet), (7.5YR 2.5/2) very dark brown, loose, wet, no staining.	135-DD26A-11.0-11.5
13							
14	3	2.1	moist	PT		fine to medium SAND, little silt, (trace wood fibers @ 16.0-16.4), slight mottling, (10YR 5/4) yellowish brown, dense, moist, no odor, no staining.	135-DD26A-13.0-13.5
15							
16	3	2.1	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt,) (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining.	135-DD26A-15.0-15.5
17							
18	3	2.1	moist	PT		Soils consistent with MM.	135-DD26A-16.3-16.8
19							
19	3	2.1	moist	PT		NO RECOVERY.	135-DD26A-16.8-17.3
20							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611323.5
Date Started Drilling: 9/17/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682532.8
Date Finished Drilling: 9/17/2015 8:50:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 9.5
Physical Location: Former Narula Property - Bld 99		

(Note bgs = below ground surface)


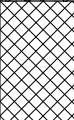

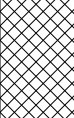
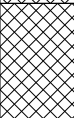
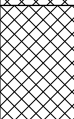
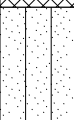

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5			CONCRETE		CONCRETE, (advanced via starbit).	
2							
3		0.0	dry	FILL		ASH, some cinders, little coal fragments, trace metal slag, fine sand, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	135-DD27A-3.0-3.5
4		0.0	slightly moist	FILL		fine to medium SAND, little cinders and ash, (5YR 4/4) reddish brown, loose, slightly moist, no odor, no staining.	
5	5	39.6	moist	FILL		ASH, some cinders and fine to medium gravel, (trace wood fragments @ 7.5-8.0 with creosote odor), (7.5YR 4/1) dark gray, moist to wet, no staining, DTW @9.5'	135-DD27A-5.0-5.5
6							
7							
8							
9							
10	4	0.0	wet	FILL		SILT, some fine to medium sand, little fine to medium gravel, trace cinders, (7.5YR 4/2) brown, soft, wet, no odor, no staining.	
11							
12		12.1	moist	FILL		ASH, some cinders, little fine to medium gravel, (wood fragments with creosote odor), (7.5YR 5/1) gray, loose, moist, black staining.	135-DD27A-11.0-11.5
13							
14				NR		NO RECOVERY.	
15	3	0.0	moist	FILL		ASH, some cinders, little fine to medium gravel, trace fine sand, (7.5YR 4/1) dark gray, moist to wet, no odor, no staining.	135-DD27A-15.0-15.5
16		2.7	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-DD27A-15.5-16.0
17							
18				NR		NO RECOVERY.	
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611310
Date Started Drilling: 9/18/2015 7:50:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682506.1
Date Finished Drilling: 9/18/2015 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 83		

(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				CONCRETE		CONCRETE, (advanced via starbit).						
2	2	0.0	dry	FILL		ASH and cinders, some medium to coarse gravel,(10YR 2/1) black,dry,no odor,no staining.	135-DD28A-2.0-2.5					
3							135-DD28A-3.0-3.5					
4							NR	NO RECOVERY.				
5	5	0.0	moist	FILL		fine to medium SAND and gravel, some cinders, (5YR 4/3) reddish brown (7.5YR 4/2) brown, moist dry no odor no staining	135-DD28A-5.0-5.5					
6							1.5	moist	FILL		ASH and cinders, little coal fragments, trace fine to medium gravel, (10YR 3/1) very dark gray, moist no odor no staining	135-DD28A-7.0-7.5
7												135-DD28A-9.0-9.5
8												135-DD28A-11.0-11.5
9	5	2.4	moist	FILL		ASH and cinders, little silt and coal fragments, trace fine to medium gravel, (10YR 3/1) very dark gray, moist no odor no staining	135-DD28A-11.0-11.5					
10							0.0	moist	FILL		fine to medium SAND and silt, some coal fragments, little medium to coarse gravel, (5YR 4/3) reddish brown, moist no odor no staining	135-DD28A-13.0-13.5
11												135-DD28A-15.0-15.5
12	5	1.8	moist	SM		SILT, and fine to medium sand, grades finer with depth, trace clay, slight mottling, (10YR 5/6) yellowish brown, moist no odor no staining. Soils consistent with UNDno.	135-DD28A-15.0-15.5					
13							135-DD28A-17.0-17.5					
14							135-DD28A-17.5-18.0					
15							135-DD28A-18.0-18.5					
16	5	0.0	moist	OL		UNDorg SILT, 70% Organic silts 30% Organic fibers decreasing with depth., (10YR 3/1) very dark gray, moist no odor no staining. Soils consistent with UNDorg.	135-DD28A-18.0-18.5					
17												
18												
19												
20												

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611293.5
Date Started Drilling: 9/17/2015 12:30:00 PM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682489.9
Date Finished Drilling: 9/17/2015 1:40:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 83		

(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			CONCRETE		CONCRETE, (advanced via starbit, 0.4' of void space)	
2		0.0	dry	FILL		CINDERS, little ash, wood fragments, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-DD29A-1.5-2.0
3		0.0	moist	FILL		fine to medium SAND, little fine to medium gravel, trace cinders, (5YR 4/3) reddish brown, loose, moist, no odor, iron oxide staining.	135-DD29A-3.0-3.5
4				NR		NO RECOVERY.	
5	5	0.0	moist	FILL		fine to medium SAND, little fine to medium gravel, trace cinders, (5YR 4/3) reddish brown, loose, moist, no odor, iron oxide staining.	135-DD29A-5.0-5.5
6							
7							
8							
9		0.0	moist	FILL		ASH, some cinders, little wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-DD29A-9.0-9.5
10	4	0.0	wet	FILL		ASH, little fine sand, fine to medium gravel, trace wood fragments, (7.5YR 2.5/1) black, loose, wet, no odor, no staining, DTW @ 10'.	135-DD29A-11.0-11.5
11							
12							
13							
14				NR		NO RECOVERY.	
15	5	0.0	moist	SM		SILT, and fine to medium sand (grades finer with depth), trace clay at bottom, slight mottling, (10YR 5/6) yellowish brown, soft, moist to wet, no odor, no staining. Soils consistent with UNDno.	135-DD29A-15.0-15.5
16							
17							
18							
19		3.1	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-DD29A-18.4-18.9
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611283
Date Started Drilling: 9/1/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682452.5
Date Finished Drilling: 9/1/2015 10:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 9.0
Physical Location: Former Narula Property - Bld 77 (Street)		

(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		ASPHALT		ASPHALT	
		0.0	slightly moist	FILL		Subbase Gravel(Trap Rock).	135-DD30A-0.5-1.0
		0.0	slightly moist	FILL		fine to medium SAND,some cinders,coal fragments,metal, slag,asphalt fragments,little coarse gravel,(7.5YR 2.5/1) black,slightly moist,no odor,no staining.	
2		48.3	slightly moist	FILL		fine to medium SAND,and cinders,some metal slag,coal fragments,trace wood fragments (creosote odor and staining @ 4.7-5.0), (7.5YR 2.5/1) black, loose, slightly moist, iron oxide staining.	135-DD30A-2.5-3.0
3							135-DD30A-4.5-5.0
4							
5							
6	4	0.0	moist	FILL		fine to medium SAND,and silt,little fine to coarse gravel,trace fill material,(7.5YR 3/2) dark brown,moist,no odor, slight black staining.	
7							135-DD30A-6.5-7.0
8		0.0	wet	FILL		SILT, and fine sand,little fine to coarse gravel,orange mottling, (7.5YR 4/2) brown, soft, wet, DTW @ 9.0.	135-DD30A-8.5-9.0
9				NR		NO RECOVERY.	
10	5	0.0	wet	FILL		SILT, and fine to medium sand,little fine to medium gravel,(7.5YR 4/2) brown,wet,no odor, no staining.	135-DD30A-10.5-11.0
11							135-DD30A-12.5-13.0
12							135-DD30A-14.5-15.0
13							
14							
15							
16	5	0.0	wet	FILL		SILT, and fine to medium sand,little fine to medium gravel,(7.5YR 4/2) brown,wet,no odor,no staining.	135-DD30A-15.4-15.9
17		3.1	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic),(7.5YR 3/4) dark brown,moist,moderate organic odor,no staining. Soils consistent with MM.	135-DD30A-15.9-16.4
18							
19		1.8	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers, less fibrous with depth), moist,slight organic odor,no staining. Soils consistent with UNDorg.	
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611362.5
Date Started Drilling: 9/16/2015 9:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682552.2
Date Finished Drilling: 9/16/2015 10:15:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.5
Physical Location: Former Narula Property - Bld 99		

(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	dry	CONCRETE		CONCRETE, (advanced via starbit, 0.6' of void space).				
2				FILL		ASH, some cinders, little coal and wood fragments, trace brick, (brown fine sand lens with gravel @ 1.5-2.0), (7.5YR 2.5/2) very dark brown, loose, dry, no odor, iron oxide staining.	135-EE26A-1.5-2.0			
3									135-EE26A-3.0-3.5	
4				NR				NO RECOVERY.		
5	5	0.0	dry	FILL		ASH, some cinders, little coal fragments, wood fragments, trace metal slag, trace fine sand, (10YR 3/4) dark yellowish brown, loose, dry, no odor, iron oxide staining.	135-EE26A-5.0-5.5			
6				FILL		ASH, some fine to medium gravel, little cinders and wood, trace brick fragments, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining.	135-EE26A-7.0-7.5			
7										
8										
9							135-EE26A-9.0-9.5			
10	4	1.3	moist	FILL		ASH, some cinders, little fine sand, trace wood, coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining DTW @ 10.5'.	135-EE26A-11.0-11.5			
11										
12										135-EE26A-13.0-13.5
13										
14				NR		NO RECOVERY.				
15	3	0.0	wet	FILL		fine to medium SAND, (black ash, cinders and fine to medium gravel lens @ 15.0-15.3), slight mottling, (2.5YR 4/1) dark reddish gray, loose, wet, no odor, no staining.	135-EE26A-15.0-15.5			
16									135-EE26A-15.9-16.4	
17				2.3	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 2.5/3) very dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-EE26A-16.4-16.9	
18										
19				NR		NO RECOVERY.				
20										

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:53

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611350.2
Date Started Drilling: 9/1/2015 10:55:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682519.32
Date Finished Drilling: 9/1/2015 11:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 99 (Street)		

(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		ASPHALT		ASPHALT.	
		0.0		FILL		Subbase Gravel (Trap Rock).	
		0.0		FILL		CINDERS, and ash, some coal fragments, metal slag, (brown silt lens @ 3.8-4.1), (7.5YR 3/1) very dark gray, slightly moist, loose, no odor, black staining.	135-EE27A-1.2-1.7 135-EE27A-2.0-2.5
2-5	4	0.0		FILL			135-EE27A-4.0-4.5
		1.5	moist	FILL		fine to medium sand, with silt, some cinders, little ash, fine to medium gravel, (7.5YR 3/4) dark brown, moist, loose, no odor, slight black staining.	135-EE27A-6.0-6.5
		0.0	wet	FILL		SILT, and fine sand, little fine to coarse gravel, (2.5YR 4/4) reddish brown, soft, wet, no odor, no staining, DTW @ 7.0'.	135-EE27A-8.0-8.5
6-9				NR		NO RECOVERY.	
10-15	5	0.0	wet	FILL		SILT, and fine sand, little fine to coarse gravel, (2.5YR 4/4) reddish brown, soft, wet, no odor, no staining.	135-EE27A-10.0-10.5 135-EE27A-12.0-12.5
		0.0	moist	FILL		fine SAND, some silt, trace brick fragments (brown silt lens @ 14.5-15.0), (7.5YR 3/2) dark brown, loose, moist, no odor, no staining.	135-EE27A-14.0-14.5
		0.0	moist	FILL		SILT, interbedded with dark brown fine to medium sand, trace fill material, (7.5YR 4/4) brown, moist, no odor, no staining.	135-EE27A-15.7-16.2
16-19	5	2.7	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.	135-EE27A-16.2-16.7
		1.8	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 4/2) dark grayish brown, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: 611228.5878
Date Started Drilling: 5/22/2013 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682547.5147
Date Finished Drilling: 5/22/2013 10:15:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location:		Surface Elevation: 10.08 ft NAVD88

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	slightly moist	FILL		fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (10YR 3/6) dark yellowish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	135-P3C-AA28A-1.0-1.5
2	2	0.0	slightly moist	FILL		fine to medium silty SAND, with fine to coarse gravel, some coal, cinders, little ash, (7.5YR 3/4) dark brown, non plastic, loose to soft, slightly moist, no odor, no staining.	135-P3C-AA28A-3.0-3.5
3		0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	
4	1.1	45.1	moist	FILL		ASH, with and oil-like material, some coal, cinders, wood fragments, (7.5YR 4/1) dark gray, non plastic, loose, moist, strong naphthalene odor, sheen.	135-P3C-AA28A-4.5-5.0
5				NR		NO RECOVERY	
6	1.6	56.7	moist	FILL		ASH, with and oil-like material, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-AA28A-6.5-7.0
7				NR		NO RECOVERY	
8	1.7	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-8.5-9.0
9				NR		NO RECOVERY	
10	1	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-10.5-11.0
11				NR		NO RECOVERY	
12	2	0.0	slightly moist	FILL		ASH, with fine to medium sand, some coal, cinders, wood fragments, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA28A-12.5-13.0
13		7.2	dry	FILL		SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor sheen.	135-P3C-AA28A-14.5-15.0
14	2	9.3	dry	FILL		SILT, with clay, trace tar-like material, (7.5YR 2.5/3) very dark brown, low plasticity, stiff to medium stiff, dry, no odor, sheen.	
15		0.0	moist	FILL		SILT, some fine sand, little roots, (10YR 5/6) yellowish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-AA28A-15.3-15.8
16	1.2	2.3	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-AA28A-15.8-16.3
17		2.3	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM.	
18				NR		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, soft, dry, strong organic odor, no staining. Soils consistent with MM.	
						NO RECOVERY	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611216.052
Date Started Drilling: 4/23/2014 7:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682519.709
Date Finished Drilling: 4/23/2014 9:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USC	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-3	5	0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little wood fragments, little ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-AA29A-1.0-1.5	
		0.0	dry	FILL				CINDERS, some ash, little fine to medium gravel, little coal, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.
		0.0	dry	FILL				CINDERS, with fine to medium sand, some ash, little wood fragments, little medium to coarse gravel, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.
5-7	5	4.3	moist	FILL		fine to medium silty SAND, with cinders, some fine to medium gravel, trace coal, trace wood fragments, (7.5YR 3/1) very dark gray, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-AA29A-5.0-5.5	
		49.9	wet	FILL				CINDERS, some fine to medium sand, little fine to medium gravel, trace coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, moderate hydrocarbon odor, sheen.
11-13	5	0.0	moist	FILL		CINDERS, with fine to medium sand, some wood fragments, little coal, little fine to medium gravel, (7.5YR 2.5/1) black, low plasticity, loose, moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-AA29A-11.0-11.5	
15-17	5	0.0	moist	FILL		CINDERS, some fine to medium sand, little coal, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no odor, hydrocarbon staining.	135-P3C-AA29A-15.0-15.5	
		0.0	dry to moist	FILL				fine silty SAND, trace brick, (7.5YR 6/3) light brown, loose, dry to moist, no odor, no staining.
		0.0	dry	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, dry, no odor, no staining. Soils consistent with MM.
17-19								
19-20								

PPG - PPG.LOG .GDT - 6/6/14 12:54

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611162.185
Date Started Drilling: 3/22/2014 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682410.331
Date Finished Drilling: 3/22/2014 10:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: AG	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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		CINDERS, some ash, little coal, little brick, little fine to medium sand, (10YR 5/4) yellowish brown, non plastic, dense, slightly moist	135-P3C-AA33A-1.0-1.5		
2							135-P3C-AA33A-3.0-3.5		
3									
4									
5	5	0.0	moist to wet	FILL		CINDERS, some ash, little silt, trace brick, (10YR 5/4) yellowish brown, non plastic, moist to wet, no staining	135-P3C-AA33A-5.0-5.5		
6									
7								135-P3C-AA33A-7.0-7.5	
8									
9	4	0.0	wet	FILL		ASH, some cinders, little wood, (10YR 4/1) dark gray, non plastic, medium dense, wet	135-P3C-AA33A-9.0-9.5		
10									
11								135-P3C-AA33A-11.0-11.5	
12									
13	4	0.0	wet	FILL		SILT, some cinders, trace wood, (10YR 3/1) very dark gray, non plastic, loose, wet	135-P3C-AA33A-13.0-13.5		
14									
15							NR	NO RECOVERY	
16	5	0.0	wet	FILL		SILT, and roots, some cinders, little ash, little fine subangular gravel, trace fine to medium sand, (5YR 3/2) dark reddish brown, low plasticity, wet, no odor, no staining	135-P3C-AA33A-15.0-15.5		
17		0.0	moist to saturated	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, low plasticity, soft, moist to saturated, slight sulfur odor, no staining. Soils consistent with MM	135-P3C-AA33A-15.5-16.0
18									
19									
20									

PPG - PPG LOGS GDT - 6/6/14 12:54

Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND 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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611148.602
Date Started Drilling: 3/22/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682385.716
Date Finished Drilling: 3/22/2014 9:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 25 ft
Logged By: AG	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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	slightly moist	FILL		CINDERS, some fine to medium sand, little brick, little ash, (10YR 4/3) brown, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA34A-1.0-1.5	
2-3							135-P3C-AA34A-3.0-3.5	
3-5								
5-6	5	0.0	slightly moist	FILL		fine to medium silty SAND, some sand, little ash, (10YR 4/3) brown, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-AA34A-5.0-5.5	
6-7								
7-8		0.0	wet	FILL			CINDERS, some ash, little coal, little fine to medium sand, (10YR 6/1) gray, non plastic, loose, wet, no odor, no staining.	135-P3C-AA34A-7.0-7.5
8-9								135-P3C-AA34A-9.0-9.5
9-10	5	0.0	slightly moist	FILL		fine to medium SAND, some cinders, some silt, little ash, (10YR 6/3) pale brown, low plasticity, loose, slightly moist, no odor, no staining. CINDERS, some ash, little fine to medium sand, trace brick, (10YR 6/1) gray, non plastic, loose, wet to saturated, no odor, no staining.	135-P3C-AA34A-11.0-11.5	
10-11		0.0	wet to saturated	FILL				
11-12								135-P3C-AA34A-13.0-13.5
12-14								
14-15		0.0	moist	FILL			SILT, some clay, little roots, (10YR 3/1) very dark gray, low plasticity, medium soft, moist, no odor, no staining.	135-P3C-AA34A-14.5-15.0
15-16	5	0.0	moist to wet	SM		fine silty SAND, little fine gravel, trace coarse gravel, trace roots, (10YR 4/2) dark grayish brown, low plasticity, loose, moist to wet, no odor, no staining, subrounded poorly graded. Soils consistent with UNDno.	135-P3C-AA34A-15.0-15.5	
16-17								
17-18		0.0	slightly moist	ML			SILT, some clay, little roots, (10YR 4/1) dark gray, low plasticity, medium soft, slightly moist, slight sulfur odor, no staining. Soils consistent with UNDorg.	
18-19	5					SILT, little gravel, (10YR 4/1) dark gray, low plasticity, soft, moist to wet, no odor, no staining, subangular poorly graded. Soils consistent with UNDorg.		
19-20								
20-21		0.0	moist to wet	ML				
21-23								

G - G.LOGS.GDT - 6/6/14 12:54

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: 611298.6
Date Started Drilling: 5/23/2013 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682613.2
Date Finished Drilling: 6/21/2013 9:40:00 AM	Core Size: 3 in	Boring Total Depth: 15.8000001907349 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 11.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.9	0.0	dry	FILL		medium to coarse silty SAND, with crushed asphalt and fine gravel, (7.5YR 2.5/1) black, non plastic loose, dry, no odor, no staining.	
2		0.0	dry	FILL		fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining.	135-P3C-BB25A-1.0-1.5
3	1.8	0.0	moist	FILL		NO RECOVERY	
4		0.0	dry to moist	FILL		fine to medium SAND, and silt with fill material, (7.5YR 3/4) dark brown, non plastic, loose, dry to slightly moist, no odor, no staining, trace glass fragments.	135-P3C-BB25A-3.0-3.5
5	1.6	0.0	moist to wet	FILL		fine SAND, with silt trace fine gravel, (10YR 3/2) very dark grayish brown, non plastic, soft to loose, moist, no odor, no staining, some ash and cinders.	
6		0.0	wet	FILL		medium SAND, little silt and ceramics, (10YR 3/4) dark yellowish brown, non plastic, loose, dry to moist, no odor, no staining, some ash and coal.	135-P3C-BB25A-5.0-5.5
7	1.5	0.0		FILL		fine to medium SAND, with ash and fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, no odor, no staining, some coal and cinder fragments.	135-P3C-BB25A-7.0-7.5
8		0.0	moist	FILL		NO RECOVERY	
9	1.5	0.0		FILL		fine to medium SAND, with brick and fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, wet, no odor, no staining, some fill material and ceramics.	135-P3C-BB25A-8.8-9.3
10		0.0	moist	FILL		NO RECOVERY	135-P3C-BB25A-9.0-9.5
11	0.8	0.0		FILL		medium to coarse SAND, with ash and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining.	
12		0.0	wet	FILL		NO RECOVERY	135-P3C-BB25A-10.8-11.3
13	1.5	2.3	moist	PT		fine silty SAND, trace cinders, little medium and coarse sand, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-BB25A-12.0-12.5
14				PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	135-P3C-BB25A-12.5-13.0
15	1.8			PT		NO RECOVERY	135-P3C-BB25A-12.8-13.3
				PT		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/2) brown, non plastic, medium, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	135-P3C-BB25A-14.8-15.3
				PT			135-P3C-BB25A-15.3-15.8

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611279.3946
Date Started Drilling: 5/23/2013 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682591.5949
Date Finished Drilling: 5/23/2013 10:40:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 12.14 ft NAVD88

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, weathered and sub-base, (10YR 2/1) black, non plastic, dense, dry.	135-P3C-BB26A-1.0-1.5
		0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little cinders, trace brick, trace glass, trace coal, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	
2	1.8	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little cinders, trace brick, (10YR 4/2) dark grayish brown, non plastic, dense, slightly moist.	135-P3C-BB26A-3.0-3.5
		0.0	slightly moist	FILL		ASH, some cinders, little gravel, trace brick, (10YR 5/1) gray, non plastic, loose, slightly moist.	
4	1.7	4.6	wet	NR FILL		NO RECOVERY ASH, some cinders, little gravel, trace ceramics, trace brick, (10YR 5/2) grayish brown, non plastic, loose, wet.	135-P3C-BB26A-5.0-5.5
		0.0	wet	FILL		SILT, some cinders, little gravel, little rubber, (10YR 2/1) black, non plastic, loose, wet.	
6	2	0.0	wet	NR FILL		NO RECOVERY SILT, some organics, little cinders, (10YR 2/1) black, non plastic, loose, wet.	135-P3C-BB26A-7.0-7.5
		0.0	wet	FILL		ASH, some cinders, little gravel, (10YR 4/1) dark gray, non plastic, loose, wet.	
8	1.7	0.0	wet	FILL		ASH, some cinders, little coal, trace ceramics, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-BB26A-9.0-9.5
				NR FILL		NO RECOVERY ASH, some cinders, little coal, little wood fragments, (10YR 4/1) dark gray, non plastic, loose, wet.	
10	1.7	0.0	wet	NR FILL		NO RECOVERY ASH, some cinders, little coal, little wood fragments, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-BB26A-11.0-11.5
				NR FILL		NO RECOVERY ASH, some cinders, little gravel, trace wood, (10YR 4/1) dark gray, non plastic, loose, wet.	
12	1.2	0.0	wet	FILL		ASH, some cinders, little gravel, trace wood, (10YR 4/1) dark gray, non plastic, loose, wet.	135-P3C-BB26A-12.7-13.2
		0.0	moist	FILL		SILT, some roots, little cinders, little ash, (10YR 3/2) very dark grayish brown, non plastic, loose, moist.	
14	2	0.0	moist	FILL		fine silty SAND, little roots, little clay, trace brick, trace shells, (10YR 5/2) grayish brown, low plasticity, soft, moist.	135-P3C-BB26A-14.6-15.1
		2.1	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
16	2	2.3	moist	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt/clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	135-P3C-BB26A-15.1-15.6
		1.8	moist	OH		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt/clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
17	2	2.2	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	135-P3C-BB26A-17.0-17.5
		2.2	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	
18						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	

Notes:
bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611242.863
Date Started Drilling: 3/21/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.181
Date Finished Drilling: 3/21/2014 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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	
2-3		0.0	dry	FILL		fine to medium SAND, with ash, some cinders, little coal, trace wood fragments, (2.5Y 4/1) dark gray, loose, dry, slight hydrocarbon odor, no staining.	135-P3C-BB29A-2.0-2.5 135-P3C-BB29A-4.0-4.5
5-6	5	0.0	moist to wet	FILL		fine to medium SAND, with ash, some cinders, little glass fragments, trace ceramics, (2.5Y 4/1) dark gray, loose, moist to wet, moderate hydrocarbon odor, hydrocarbon staining.	135-P3C-BB29A-6.0-6.5
7-8		0.0	moist	FILL		fine silty SAND, some cinders, little wood fragments, little coarse gravel, trace ceramics, (2.5Y 4/1) dark gray, soft, moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-BB29A-8.0-8.5
9-10		0.0	dry to moist	FILL		CINDERS, with fine to medium sand, little wood fragments, trace ceramics, trace glass fragments, (2.5Y 3/1) very dark gray, loose, dry to moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-BB29A-10.0-10.5
11-12	5	0.0	moist to wet	FILL		CINDERS, with ash, fine to medium sand, some coarse gravel, little glass fragments, trace wood fragments, (2.5Y 4/1) dark gray, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-BB29A-12.0-12.5
13-14							135-P3C-BB29A-14.0-14.5
15-16	5	0.0	dry to moist	FILL		sandy CINDERS, some ash, some fine to medium sand, (2.5Y 3/1) very dark gray, medium plasticity, soft, dry to moist, moderate organic odor.	135-P3C-BB29A-16.0-16.5
17-18		0.0	dry to moist	OL		UNDorg organic SILT, some organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, dry to moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-BB29A-16.5-17.0
19-20							

PPG - PPG_LOGS.GDT - 6/6/1 12:5

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: 611229.37
Date Started Drilling: 3/21/2014 12:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682479.44
Date Finished Drilling: 3/21/2014 1:05:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.35 ft NAVD88

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	dry	FILL		fine to medium SAND, some ash, little cinders, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	135-P3C-BB30A-2.0-2.5
3		0.0	dry	FILL		fine to medium SAND, and coarse gravel, (7.5YR 6/3) light brown, loose, dry, no odor, no staining.	135-P3C-BB30A-4.0-4.5
4	5	0.0	dry to moist	FILL		CINDERS, some ash, trace ceramic, trace wood fragments, (7.5YR 3/2) dark brown, loose, dry to moist, no odor, no staining.	135-P3C-BB30A-6.0-6.5
5							135-P3C-BB30A-8.0-8.5
6							135-P3C-BB30A-10.0-10.5
7	5	0.0	slight moist - moist	FILL		CINDERS, some ash, little glass fragments, trace brick, trace wood fragments, (7.5YR 5/1) gray, loose, slightly moist to moist, slight hydrocarbon odor, hydrocarbon staining.	135-P3C-BB30A-12.0-12.5
8							135-P3C-BB30A-14.0-14.5
9							135-P3C-BB30A-16.0-16.5
10	5	0.0	slight moist - moist	FILL		CINDERS, some ash, little sand, (7.5R 7/3) pale red, (10R 3/2) dusky red, (5YR 6/1) gray, (7.5YR 5/1) gray, loose, slightly moist to moist, no odor, no staining.	135-P3C-BB30A-17.5-18.0
11							135-P3C-BB30A-18.0-18.5
12							135-P3C-BB30A-18.0-18.5
13	5	0.0	slight moist - moist	FILL		sandy SILT, little coarse gravel, fine to medium sand, (7.5YR 4/3) brown, medium plasticity, soft, dry, no odor, no staining.	135-P3C-BB30A-16.0-16.5
14							135-P3C-BB30A-17.5-18.0
15							135-P3C-BB30A-18.0-18.5
16	5	0.0	slight moist - moist	OL		UNDorg organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft, slightly moist to moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-BB30A-17.5-18.0
17							135-P3C-BB30A-18.0-18.5
18							135-P3C-BB30A-18.0-18.5
19	5	0.0	slight moist - moist	OL		UNDorg organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft, slightly moist to moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-BB30A-17.5-18.0
20							135-P3C-BB30A-18.0-18.5



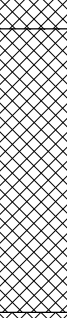
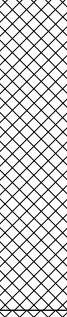
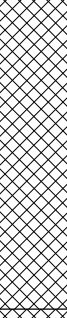

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611328.5
Date Started Drilling: 9/21/2013 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682594.6
Date Finished Drilling: 9/21/2013 3:00:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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	3.5	0.0		CONCRETE		CONCRETE, (.5in of void)		
2		0.0	dry	FILL		fine to medium SAND, some cinders, coal, little fine to medium gravel, trace COPR, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. ASH, some cinders, coal, little wood fragments, brick, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-3.0-3.5	
3		0.0	dry	FILL				
4				NR		NO RECOVERY		
5	5	0.0	dry	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, (10YR 5/2) grayish brown, non plastic, loose, dry, no odor, no staining. CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-CC25A-5.0-5.5	
6		0.0	wet	FILL			135-P3C-CC25A-7.0-7.5	
7								135-P3C-CC25A-9.0-9.5
8								
9								
10	5	0.0	wet	FILL		fine to medium silty CINDERS, with ash, some coal, wood fragments, little coarse gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	135-P3C-CC25A-11.0-11.5	
11								135-P3C-CC25A-13.0-13.5
12								
13								
14								
15	5	0.0	dry	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, ceramics, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-15.0-15.5	
16								135-P3C-CC25A-17.0-17.5
17								
18								
19								
20	1	0.0	dry	FILL		ASH, some cinders, coal, little wood fragments, brick, coarse gravel, ceramics, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	135-P3C-CC25A-19.0-19.5	
21								

PPG - PPG_LOGS.GDT - 6/6/14 12:54

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611314.2
Date Started Drilling: 8/24/2013 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682566.2
Date Finished Drilling: 8/24/2013 3:10:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: JF	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 13.6 ft NAVD88

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	dry	FILL		FILL MATERIAL, as cinders, coal slag, some silt and fine to medium sized gravel, trace ash, (7.5YR 2.5/3) very dark brown, non plastic, loose to medium dense, dry to slightly moist, no odor, no staining.	135-P3C-CC26A-3.0-3.5
3	5	180	wet	FILL		FILL MATERIAL, as cinders and ash, some coal slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent odor, sheen, 8.5' - strong solvent odor. PPM = 180, sheen in water. Solvents may be smearing in the "vadose" zone.	135-P3C-CC26A-5.0-5.5
4							135-P3C-CC26A-7.0-7.5
5							135-P3C-CC26A-9.0-9.5
6	5	60	wet	FILL		FILL MATERIAL, as cinders and ash, some coal slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose to medium dense, wet to saturated, moderate solvent odor, sheen, ppm@ 13' = 60 ppm.	135-P3C-CC26A-11.0-11.5
7							135-P3C-CC26A-13.0-13.5
8							135-P3C-CC26A-15.0-15.5
9							135-P3C-CC26A-17.0-17.5
10	5	0.0	wet	FILL		FILL MATERIAL, as ash and cinders with some coal slag, trace ceramics, (7.5YR 7/1) light gray, non plastic, loose, wet, no odor, no staining, PPM @ 15.0'=3.0.	135-P3C-CC26A-18.5-19.0
11							135-P3C-CC26A-19.0-19.5
12							
13	5	0.0	moist	FILL		Disturbed organic SILT, with some coal dust, trace cinders, (7.5YR 3/1) very dark gray, medium plasticity, soft, moist, slight organic odor, no staining.	
14							
15	5	0.9	moist	PT		PEAT (degraded vegetated material), organic fibers 90%, organic silts 10%, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
16							
17							
18							
19							
20							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611296.705
Date Started Drilling: 3/21/2014 11:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682546.233
Date Finished Drilling: 3/21/2014 2:44:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 13.58 ft NAVD88

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 to slight moist	CONCRETE		CONCRETE		
2				FILL		fine to medium SAND, little coal, ash, cinders, (10YR 5/6) yellowish brown, loose to hard, dry to slightly moist, no odor, no staining.	135-P3C-CC27A-2.0-2.5	
4				FILL		ASH, with cinders, coal, little wood fragments, (7.5YR 7/1) light gray, loose, slightly moist, no odor, no staining.	135-P3C-CC27A-4.0-4.5	
5	4	12.0	moist	FILL		ASH, with cinders, coal, some fine sand, little fine gravel, trace oil-like material, (7.5YR 5/1) gray, loose, moist, slight naphthalene odor, sheen.	135-P3C-CC27A-6.0-6.5	
8								135-P3C-CC27A-8.0-8.5
9				NR		NO RECOVERY		
10	5	0.0	slightly moist	FILL		ASH, with cinders, coal, little wood fragments, ceramics, fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	135-P3C-CC27A-10.0-10.5	
12								135-P3C-CC27A-12.0-12.5
14								135-P3C-CC27A-14.0-14.5
15	3.5	0.0	slightly moist	FILL		ASH, with cinders, coal, little wood fragments, ceramics, fine sand, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.		
16		0.0	moist	FILL			SILT, little fine sand, trace cinders, coal, wood fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	135-P3C-CC27A-16.0-16.5
17		0.0	moist	FILL		SILT, little fine sand, trace fine gravel, roots, (10YR 5/8) yellowish brown, low plasticity, soft to stiff, moist, no odor, no staining.	135-P3C-CC27A-17.0-17.5	
18		0.0	slightly moist	PT		PEAT (degraded vegetated material), 80% organics fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	135-P3C-CC27A-17.5-18.0	
19				NR		NO RECOVERY		
20								















PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 610935.8125
Date Started Drilling: 7/19/2013 7:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682275.375
Date Finished Drilling: 7/19/2013 6:54:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 135 - V41A		

(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 sandy, with fine to medium gravel, some brick, fill material, (7.5YR 4/2) brown, non plastic loose, slightly moist, no odor, no staining.	
2	1.1	0.0	slightly moist	FILL		weathered BRICK, with fine silty sand, little fine to coarse gravel, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
3		0.0	slightly moist	FILL		fine silty SAND, some coarse gravel, little brick, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
4	2	0.0	slightly moist	FILL		NO RECOVERY	
5		0.0	moist dry	FILL		fine silty SAND, some coarse gravel, little brick, (5YR 4/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	135-P3C-V41A-5.0-5.5
6	1.6	17.2	slightly moist	FILL		fine to medium SAND, some cinders, coal, little brick, (7.5YR 2.5/3) very dark brown, non plastic, loose, dry, no odor, no staining.	
7		17.2	slightly moist	FILL		CINDERS, with coal, little ash, fine sand, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, slight petroleum odor, slight sheen.	135-P3C-V41A-7.0-7.5
8	1.7	10.1	slightly moist	FILL		NO RECOVERY	
9		10.1	slightly moist	FILL		CINDERS, with coal, little ash, fine sand, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, slight petroleum odor, slight sheen.	135-P3C-V41A-9.0-9.5
10	1.6	0.0	moist	NR		NO RECOVERY	
11		0.0	moist	FILL		fine to medium silty SAND, some cinders, ash, coal, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	135-P3C-V41A-11.0-11.5
12	1.5	0.0	moist	NR		NO RECOVERY	
13		0.0	moist	FILL		fine to medium silty SAND, some cinders, ash, coal, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	135-P3C-V41A-13.0-13.5
14	2	0.0	moist	NR		NO RECOVERY	
15		0.0	moist	FILL		SILT, some fine sand, little coarse gravel, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-V41A-15.0-15.5
16	2	2.7	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-V41A-15.5-16.0
17		1.3	slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	135-P3C-V41A-15.5-16.0X
18							

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: 610987.347
Date Started Drilling: 4/18/2014 9:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682332.618
Date Finished Drilling: 4/18/2014 9:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 9.37 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1	0.0	dry	FILL		fine to medium SAND, trace silt and fine gravel, (7.5YR 4/3) brown, non plastic soft, dry to moist no odor no staining, fill material	135-P3C-W38A-1.0-1.5
1	0.5	0.0	dry	FILL		fine to medium SAND, and concrete some fill material, (7.5YR 3/4) dark brown, non plastic soft, dry to moist no odor no staining	
2	0.5	0.0	dry	FILL		fine to medium SAND, and crushed concrete, some fine to medium gravel, (9/2.5Y_/1) white, medium dense, dry no odor no staining	135-P3C-W38A-3.0-3.5
2	1.8	0.0	moist	FILL		fine silty SAND, some fill material little fine gravel, (10YR 3/3) dark brown, low plasticity, soft, moist	
3						fine to medium silty SAND, with cinders, some ash, little wood debris, (10YR 4/2) dark grayish brown, (5Y 2.5/1) black, medium dense, moist no odor no staining	
4	1.2	0.0	moist	FILL		fine to medium silty SAND, with coal,cinder,ash some wood fragments, (10YR 5/2) grayish brown, non plastic loose to soft, dry to slightly moist no odor no staining	135-P3C-W38A-5.0-5.5
4	1.8	0.0	dry	FILL		NO RECOVERY	
5						fine silty SAND, some ash,cinders,coal little fine to medium gravel, (7.5YR 5/1) gray, non plastic loose to soft, slightly moist no staining	135-P3C-W38A-7.0-7.5
6	0	0.0	slightly moist	FILL		NO RECOVERY	
6	1.5	0.0		FILL		fine to medium, some ash,cinders,ceramics little fine to medium gravel, trace glass, rubber, (7.5YR 4/1) dark gray, non plastic loose to soft, slightly moist no staining	135-P3C-W38A-8.5-9.0
7	0	0.0		FILL		NO RECOVERY	
8	1	0.0	slightly moist	FILL		ASH, with fine sand, some cinders,wood fragments little ceramics,coal,trace glass, (7.5YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-W38A-10.5-11.0
9	0	0.0		FILL		NO RECOVERY	
10	1.6	0.0	moist	FILL		ASH, with fine sand, some cinders,wood fragments little ceramics,coal,trace glass, (7.5YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-W38A-12.5-13.0
11	0	0.0		FILL		NO RECOVERY	
12	1.5	0.0	moist	FILL		SILT, little roots trace fine sand, (7.5YR 2.5/3) very dark brown, low plasticity soft, moist no odor no staining	135-P3C-W38A-14.5-15.0
13						SILT, little roots trace fine sand, fill material, (7.5YR 2.5/3) very dark brown, low plasticity soft, moist no odor no staining	
14	0.5	0.0	moist	FILL		NO RECOVERY	
14	1.3	0.0	moist	FILL		SILT, little roots trace fine sand, fill material, (7.5YR 2.5/3) very dark brown, low plasticity soft, moist no odor no staining	135-P3C-W38A-16.0-16.5
15	0	0.0		FILL		NO RECOVERY	
16	0.5	0.0	moist	FILL		SILT, little roots trace fine sand, (7.5YR 2.5/3) very dark brown, low plasticity soft, moist no odor no staining	135-P3C-W38A-16.5-17.0
16	0.3	0.0	moist	FILL		NO RECOVERY	
17	1.2	1.7	moist	OL		UNDorg SILT, 90% organic silt 10% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity soft, moist moderate organic odor no staining. Soils consistent with UNDorg.	
17		2.1	moist	PT		PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, (7.5YR 3/3) dark brown, non plastic stiff, moist strong organic odor no staining. Soils consistent with MM.	
18							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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
Date Started Drilling: 5/20/2013 9:10:00 AM	Rig Type:
Date Finished Drilling: 5/20/2013 10:45:00 AM	Core Size: 3 in
Logged By: MI	Project Manager: Scott Mikaelian
Physical Location: Narula Property	Surface Elevation: 9.36 ft NAVD88

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		medium to coarse SAND, little fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
2	1	0.0		FILL		fine to medium silty SAND, with fine to coarse gravel, little crushed concrete, brick, (5YR 4/4) reddish brown, non plastic, hard, slightly moist, no odor, no staining.	
3				NR			
4	1.8	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-5.0-5.5
5				NR			
6	2	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-7.0-7.5
7				NR			
8	1.5	196.0	moist	FILL		TAR-LIKE MATERIAL, with fine to coarse gravel, some ash, cinders, coal, wood fragments, trace silt, (7.5YR 2.5/1) black, non plastic, loose, moist, strong tar odor, sheen.	135-P3C-W39A-9.0-9.5
9				NR			
10	1.7	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, silt, ceramics, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-11.0-11.5
11				NR			
12	2	0.0	dry	FILL		ASH, with fine to medium sand and cinders, coal, wood fragments, little glass, silt, ceramics, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W39A-13.0-13.5
13		0.0	moist	FILL			
14	2	1.2		OL		SILT, some roots, little ash, wood fragments, fill material, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-W39A-13.5-14.0
15		2.3	dry	PT			
16	2	0.0	moist	MH		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.	135-P3C-W39A-14.0-14.5
						UNDno SILT, with roots, little organics, (10YR 5/2) grayish brown, low plasticity, soft to dense, moist, slight organic odor, no staining. Soils consistent with UNDno.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 610957.968
Date Started Drilling: 4/21/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682280.982
Date Finished Drilling: 4/21/2014 9:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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
1-3	5	0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-1.0-1.5
		0.0	dry	FILL			
		0.0	dry	FILL			
3-5	5	0.0	dry	FILL		fine to medium SAND, little ash, some brick, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-3.0-3.5
		0.0	dry	FILL			
		0.0	dry	FILL			
5-7	5	0.0	dry	FILL		ASH, and cinders, some fine to medium sand, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-5.0-5.5
		0.0	dry	FILL			
		0.0	dry	FILL			
7-9	5	0.0	dry	FILL		fine to medium SAND, with ash, some cinders, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-7.0-7.5
		0.0	dry	FILL			
		0.0	dry	FILL			
9-11	5	87.3	wet	FILL		fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, wet, moderate hydrocarbon odor, sheen.	135-P3C-W40A-9.0-9.5
		0.0	dry	FILL			
		0.0	dry	FILL			
11-13	5	0.0	dry	FILL		fine to medium SAND, with cinders and ash, (5YR 3/1) very dark gray, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-11.0-11.5
		0.0	dry	FILL			
		0.0	dry	FILL			
13-15	5	0.0	dry	FILL		fine to medium silty SAND, trace glass, coal, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	135-P3C-W40A-13.0-13.5
		0.0	dry	FILL			
		0.0	dry	FILL			
15-17	5	0.0	dry	PT		fine to medium silty SAND, trace wood fragments, trace organic fibers, (5YR 4/1) dark gray, non plastic, soft, dry, no odor, no staining.	135-P3C-W40A-14.4-14.9
		0.0	dry	PT			
		0.0	dry to moist	OL			
17-19	5	0.0	dry to moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, non plastic, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM.	135-P3C-W40A-14.9-15.4
		0.0	dry to moist	OL			
		0.0	dry to moist	OL			
19-21	5	0.0	dry to moist	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry, slight organic odor, no staining, UNDorg. Soils consistent with MM.	135-P3C-W40A-14.9-15.4
		0.0	dry to moist	OL			
		0.0	dry to moist	OL			
20							

PPG - PPG_LOGS_GDT - 6/6/14 12:54

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: 611040.1545
Date Started Drilling: 5/13/2013 10:39:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682373.699
Date Finished Drilling: 5/13/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 9.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0	slightly moist	FILL		fine silty SAND, some fill material, (10YR 4/2) dark grayish brown, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL		fine to coarse SAND, some asphalt particles, some fill material, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist.	
2	2	0.0	slightly moist	NR		NO RECOVERY	
3		0.0	slightly moist	FILL		fine silty SAND, some fill material, little gravel, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist.	
4	1.6	0.0	moist	FILL		fine silty SAND, some concrete, some brick, little weathered asphalt, (10YR 4/2) dark grayish brown, non plastic, dense, slightly moist.	
5						ASH, little gravel, little fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, moist.	
6	1.4	0.0	wet	FILL		ASH, some cinders, little gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	135-P3C-X36A-6.0-6.5
7		NR				NO RECOVERY	
8	1.4	0.0	wet	FILL		ASH, little wood, little gravel, (10YR 2/1) black, non plastic, loose, wet, slight HC odor, sheen.	135-P3C-X36A-8.0-8.5
9		NR				NO RECOVERY	
10	1.2	0.0	wet	FILL		ASH, some cinders, some coal, (10YR 4/1) dark gray, non plastic, loose, wet, moderate HC odor, sheen.	135-P3C-X36A-10.0-10.5
11		NR				NO RECOVERY	
12	1.2	0.0	wet	FILL		ASH, some cinders, little fine to medium sand, (10YR 3/1) very dark gray, non plastic, loose, wet, slight HC odor, sheen.	135-P3C-X36A-12.0-12.5
13		NR				NO RECOVERY	
14	1.8	0.0	wet	FILL		ASH, some cinders, some coal, (10YR 4/1) dark gray, non plastic, loose, wet, slight sulfur odor.	135-P3C-X36A-14.0-14.5
15		0.0	moist	FILL		SILT, little wood fragments, (10YR 2/1) black, low plasticity, soft, moist, slight sulfur odor	
16	1.8	0.0	moist	NR		NO RECOVERY	135-P3C-X36A-16.0-16.5
17		0.0	moist	PT		fine silty SAND, little cinders, little roots, (7.5YR 4/3) brown, non plastic, medium dense, moist, slight sulfur odor.	135-P3C-X36A-16.5-17.0
18				NR		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, medium dense, moist, slight sulfur odor. Soils consistent with MM. NO RECOVERY	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste




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:	Coordinates (NJSPNAD83) x: 611032.182
Date Started Drilling: 12/2/2014 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682379.051
Date Finished Drilling: 12/2/2014 11:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - X36AR		

(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		ASH, little asphalt, little fine gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-X36AR-0.0-0.5
2		0.0	dry	FILL		fine to medium SAND, little crushed concrete, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
3		0.0	dry	FILL		ASH, some coal, trace debris, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	
4							
5							

Comments: 1) 3 attempts were made to obtain best recovery 2) 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: 611024.647
Date Started Drilling: 5/20/2013 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682352.911
Date Finished Drilling: 5/20/2013 1:45:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 9.84 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0	slightly moist	FILL		fine to medium SAND, some fine gravel little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non plastic loose, slightly moist no odor no staining	135-P3C-X37A-1.0-1.5
2	0.2	0.0	dry	NR		fine to medium SAND, some brick, little medium gravel, trace debris, (5YR 4/3) reddish brown, dense, dry no odor no staining	
3	1.3	0.0	slightly moist	FILL		SILT, with fine sand little concrete, glass, (7.5YR 5/4) brown, non plastic soft, slightly moist no odor no staining	135-P3C-X37A-3.0-3.5
4	0.3	0.0	slightly moist	FILL		fine to medium SAND, some fine gravel little silt, trace brick, crushed concrete, (7.5YR 3/2) dark brown, non plastic loose, slightly moist no odor no staining	
5	0.4	0.0	slightly moist	FILL		fine to medium SAND, some cinders, ash, trace coal, (10YR 4/2) dark grayish brown, medium dense, dry no odor no staining	135-P3C-X37A-5.0-5.5
6	0.5	0.0	dry	FILL		fine to medium SAND, some fine gravel little cinders, coal, wood fragments, (7.5YR 2.5/3) very dark brown, non plastic loose, slightly moist no odor no staining	
7	1.5	0.0	slightly moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-X37A-7.0-7.5
8	0	53.6	moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, tar like material, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist moderate tar odor sheen	135-P3C-X37A-9.0-9.5
9	2	0.0	moist	FILL		NO RECOVERY	
10	1.1	0.0	moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-X37A-10.5-11.0
11	0	0.0	moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics glass, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining	
12	1.3	0.0	moist	FILL		NO RECOVERY	
13	0	0.0	moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-X37A-12.5-13.0
14	1.2	0.0	moist	FILL		NO RECOVERY	
15	0.8	0.0	moist	FILL		ASH, some fine sand some cinders, coal, wood fragments, little ceramics, medium gravel, (10YR 4/1) dark gray, non plastic loose, moist no odor no staining	135-P3C-X37A-14.5-15.0
16	0.2	0.0	moist	FILL		SILT, some fine to coarse sand little coarse gravel, roots, (5YR 5/2) reddish gray, non plastic soft, moist no odor no staining	135-P3C-X37A-15.7-16.2
17	1.8	2.1	dry	PT		SILT, some fine to coarse sand little coarse gravel, roots, (5YR 5/2) reddish gray, non plastic soft, moist no odor no staining	135-P3C-X37A-16.2-16.7
18						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.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

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:	Coordinates (NJSPNAD83) x: 611003.693
Date Started Drilling: 4/24/2014 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682323.121
Date Finished Drilling: 4/24/2014 9:55:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 13.59 ft NAVD88

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		fine to coarse SAND, some fine to coarse gravel, little cinders, little coal, trace brick, trace salt precipitate, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining.	135-P3C-X38A-1.0-1.5			
2										
3		0.0	dry to moist	FILL		fine to medium silty SAND, some ash, little cinders, little wood debris, trace coal, glass, (10YR 4/2) dark grayish brown, dense, dry to moist, no odor, no staining.	135-P3C-X38A-3.0-3.5			
4										
5	5	0.0	moist	FILL		fine to medium silty SAND, with cinders, ash, trace coal, glass, (7.5R 3/3) dusky red, loose to medium dense, moist, no odor, no staining.	135-P3C-X38A-5.0-5.5			
6										
7			0.0	wet			FILL		fine to medium silty SAND, little cinders, ash, trace coal, glass, (10YR 4/2) dark grayish brown, medium dense, wet, no odor, no staining.	
8										
9							135-P3C-X38A-9.0-9.5			
10	4	0.0	saturated	FILL		fine to medium silty SAND, with fine to medium gravel, trace ash, wood debris, (10YR 5/1) gray, very loose, saturated, no odor, no staining.	135-P3C-X38A-11.0-11.5			
11										
12										
13										
14				NR		NO RECOVERY				
15	5	0.0	moist to dry	FILL		sandy SILT, little glass, trace fibers, (5R 5/2) weak red, low plasticity, soft, moist to dry, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.	135-P3C-X38A-15.0-15.5			
16		0.0	moist	PT					135-P3C-X38A-15.5-16.0	
17										
18										
19										
20		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.				

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 610998
Date Started Drilling: 4/23/2014 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682292
Date Finished Drilling: 4/23/2014 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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	3.2	0.0		CONCRETE		CONCRETE		
				NR		NO RECOVERY		
2	3.2	0.0	dry to moist	FILL		fine to coarse SAND, with cinders, ash, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, loose to dense, dry to moist, no odor, no staining.	135-P3C-X39A-1.8-2.3	
3				NR		NO RECOVERY	135-P3C-X39A-3.5-4.0	
5				0.0	moist	FILL		ASH, with cinders, little fine to coarse sand, trace coal, glass, (10YR 4/1) dark gray, dense, moist, no odor, no staining.
6	5	0.0	dry	FILL		sandy SILT, trace cinders, ash, ceramics, (10YR 4/1) dark gray, low plasticity, medium stiff, dry, no odor, no staining.	135-P3C-X39A-7.5-8.0	
7				FILL		fine to medium silty SAND, with ash, cinders, some fine to medium gravel, trace coal, glass, (10YR 3/1) very dark gray, medium dense, wet, no odor, no staining.	135-P3C-X39A-9.5-10.0	
8				FILL				
9				NR		NO RECOVERY		
10	5	0.0	moist	FILL		sandy SILT, trace ash, trace fibers, (5YR 3/2) dark reddish brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-X39A-11.5-12.0	
11				PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	135-P3C-X39A-13.5-14.0	
12				OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.		
13				OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.		
14				NR		NO RECOVERY		
15	5	0.0	moist	FILL			135-P3C-X39A-15.5-16.0	
16				PT			135-P3C-X39A-16.0-16.5	
17				OL				
18				OL				
19								
20								

PPG - PPG_LOGS.GDT - 6/6/1 12:5

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610979.088
Date Started Drilling: 3/22/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682263.952
Date Finished Drilling: 3/22/2014 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: AG	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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		CINDERS, some fine to medium sand, little ash, trace brick, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no odor, no staining.	135-P3C-X40A-1.0-1.5
2							
3							135-P3C-X40A-3.0-3.5
4							
5	5	0.0	slightly moist	FILL		fine to medium silty SAND, little fine gravel, trace cinders, (10YR 5/1) gray, non plastic, very loose, slightly moist, no odor, no staining, subrounded well graded.	135-P3C-X40A-5.0-5.5
6		0.0	slightly moist	FILL		CINDERS, some ash, little brick, little coal, little sand, (10YR 5/4) yellowish brown, non plastic, loose, slightly moist, no odor, no staining, subrounded well graded.	135-P3C-X40A-7.0-7.5
8							
9							135-P3C-X40A-9.0-9.5
10	5	0.0	moist to wet	FILL		SILT, some cinders, some ash, little fine sand, little coal, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining.	
11		0.0	moist to wet	FILL		fine to medium silty SAND, little gravel, (10YR 4/2) dark grayish brown, non plastic, loose, moist to wet, no odor, no staining.	135-P3C-X40A-11.0-11.5
12							
13							135-P3C-X40A-13.0-13.5
14							
15	5	0.0	moist to wet	FILL		fine to medium SAND, trace fine gravel, trace metal debris, (10YR 3/1) very dark gray, non plastic, very loose, moist to wet, no odor, no staining.	135-P3C-X40A-15.0-15.5
16		0.0	moist	OL		SILT, trace fine gravel, (10YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
17		0.0	slightly moist	OL		SILT, some clay, little roots, (10YR 5/1) gray, low plasticity, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-X40A-17.0-17.5
18		0.0	slightly moist	PT		PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, (5GY 4/2) dark grayish brown, low plasticity, medium stiff, moist, slight sulfur odor, no staining. Soils consistent with MM.	135-P3C-X40A-17.5-18.0
19							
20							

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610962.766
Date Started Drilling: 3/22/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682247.563
Date Finished Drilling: 3/22/2014 12:05:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: AG	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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		fine to medium silty SAND, some ash, little coal, little cinders, (10YR 3/4) dark yellowish brown, medium dense, slightly moist, no odor, no staining	135-P3C-X41A-1.0-1.5
2							
3							135-P3C-X41A-3.0-3.5
4							
5	5	0.0	slightly moist	FILL		ASH, some cinders, little fine to medium sand, trace brick, (10YR 4/1) dark gray, non plastic, medium dense, slightly moist	135-P3C-X41A-5.0-5.5
6							
7							135-P3C-X41A-7.0-7.5
8		0.0	slightly moist	FILL		Coarse SILICATE MATERIAL, some medium to coarse sand, (10YR 5/1) gray, non plastic, dense, slightly moist	
9		0.0	moist to wet	FILL		fine to medium silty SAND, some cinders, trace coal, trace fine gravel, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist to wet, no odor, no staining, subrounded	135-P3C-X41A-9.0-9.5
10							
11	5	0.0	wet	FILL		fine to medium silty SAND, some cinders, (10YR 4/2) dark grayish brown, non plastic, medium dense, wet, slight petroleum odor, sheen	135-P3C-X41A-11.0-11.5
12							
13							135-P3C-X41A-13.0-13.5
14							
15	5	0.0	moist to wet	FILL		SILT, little clay, little cinders, little wood, trace subangular coarse gravel, (5YR 3/2) dark reddish brown, (10YR 4/2) dark grayish brown, moist to wet	135-P3C-X41A-15.0-15.5
16							135-P3C-X41A-16.0-16.5
17			0.0	slightly moist	SM		fine silty SAND, (10YR 5/1) gray, medium dense, slightly moist. Soils consistent with UNDno
18		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (10YR 3/3) dark brown, low plasticity, medium stiff, moist, no odor, no staining. Soils consistent with MM	
19							
20							

PPG - PPG_LOGS_GDT - 6/6/14 12:54

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: 611108.467
Date Started Drilling: 5/22/2013 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682439.566
Date Finished Drilling: 5/22/2013 10:55:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 9.93 ft NAVD88

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, weathered fragments and sub-base, (10YR 2/1) black, non plastic, loose, slightly moist.	
2	2	0.0	slightly moist	FILL		fine silty SAND, some gravel little asphalt, (5YR 3/3) dark reddish brown, non plastic, dense, slightly moist.	
		0.0	dry	CONCRETE			
3	2	0.0	dry	CONCRETE		CONCRETE, (10YR 7/1) light gray, non plastic, dense, dry.	
		0.0	moist	FILL		CONCRETE, little fine to medium sand little silt, (10YR 7/1) light gray, non plastic, dense, dry.	
4	1.2	5.5	moist	FILL		WOOD PARTICLES, (10YR 5/6) yellowish brown, non plastic, medium dense, moist.	
		0.0	dry	FILL		fine to medium silty SAND, some cinders trace wood, (10YR 3/4) dark yellowish brown, non plastic, medium dense, moist, iron oxide staining.	
5	1.2	0.0	moist	FILL		fine to medium silty SAND, little cinders, ash, brick, trace coal, ceramics, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining.	135-P3C-Y33A-4.7-5.2
		0.0	to wet	NR		fine to medium silty SAND, some rock fragments little cinders, trace brick, (10YR 4/2) dark grayish brown, non plastic, medium dense, moist, iron oxide staining.	
6	1.3	0.0	wet	FILL		ASH, some cinders some ceramics, little glass, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet.	135-P3C-Y33A-6.7-7.2
		0.0		NR		NO RECOVERY	
7	1.3	4.5	wet	FILL		ASH, some cinders, little gravel little wood, little glass, (10YR 3/1) very dark gray, non plastic, loose, wet.	135-P3C-Y33A-8.7-9.2
		0.0		NR		NO RECOVERY	
8	1.3	0.0		NR		ASH, some cinders, some gravel little glass, little ceramics, (10YR 3/1) very dark gray, non plastic, loose, wet.	135-P3C-Y33A-10.5-11.0
		0.0	wet	FILL		NO RECOVERY	
9	1	0.0	wet	FILL		SILT, some ash, some cinders little glass, little ceramics, (10YR 2/1) black, non plastic, loose, wet.	135-P3C-Y33A-12.5-13.0
		0.0		NR		NO RECOVERY	
10	2	1.5	wet	FILL		ASH, some cinders, some gravel trace metal, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	135-P3C-Y33A-14.1-14.6
		8.3	moist	FILL		fine SAND, some ash, little cinders trace brick, (10YR 4/2) dark grayish brown, non plastic, medium dense, moist.	
11	1.1	4.0	moist	FILL		fine silty SAND, little cinders little roots, trace gravel, (10YR 3/2) very dark grayish brown, medium plasticity, soft, moist.	135-P3C-Y33A-14.6-15.1
		0.0	moist	PT		fine silty SAND, little gravel, trace cinders trace ceramics, (10YR 5/2) grayish brown, low plasticity, medium dense, moist.	
12	1.6	0.0	moist	OH		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.	
		0.0		NR		NO RECOVERY	
13	1.6	0.0	moist	OH		clayey SILT, some roots trace shells, (10YR 4/1) dark gray, medium plasticity, soft, moist, slight sulfur odor.	
		0.0		NR		NO RECOVERY	
14						Soils consistent with UNDorg.	
15						NO RECOVERY	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611091.9612
Date Started Drilling: 5/21/2013 1:10:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682417.7792
Date Finished Drilling: 5/21/2013 2:29:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 9.75 ft NAVD88

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 medium SAND, with little fine to medium gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	
		0.0		FILL			
2	1.8	0.0	slightly moist	FILL		fine to medium silty SAND, little fine to coarse gravel, little coal, trace brick, (5YR 4/4) reddish brown, non plastic, loose to soft, no odor, no staining.	
3	1.8	0.0	slightly moist	FILL		NO RECOVERY	
4	1	0.0	slightly moist	NR		fine silty SAND, some fine to coarse gravel, little coal, trace brick, (5YR 3/4) dark reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	135-P3C-Y34A-4.5-5.0
5	1	0.0	slightly moist	FILL		NO RECOVERY	
6	1.4	0.0	moist	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-6.5-7.0
7	1.4	0.0	moist	FILL		NO RECOVERY	
8	1.2	0.0	moist	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-8.5-9.0
9	1.2	0.0	moist	FILL		NO RECOVERY	
10	1	0.0	moist	FILL		ASH, with fine sand, some wood fragments, cinders, coal, little ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	135-P3C-Y34A-10.5-11.0
11	1	0.0	moist	FILL		NO RECOVERY	
12	1	0.0	moist	FILL		SILT, some fine to medium sand, little medium gravel, roots, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-Y34A-12.5-13.0
13	1	0.0	moist	FILL		NO RECOVERY	
14	2	0.0	moist	FILL		SILT, some fine to medium sand, little fine gravel, roots, (7.5YR 2.5/3) very dark brown, low plasticity, soft, moist, no odor, no staining.	135-P3C-Y34A-14.0-14.5
		2.6	dry	PT			135-P3C-Y34A-14.5-15.0
15	2	1.1	moist	MH		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
16						UNDno SILT, with roots, little organics, (10YR 4/2) dark grayish brown, low plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611175.7811
Date Started Drilling: 5/22/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682506.4345
Date Finished Drilling: 5/22/2013 10:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.19 ft NAVD88

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, weathered fragments and sub-base, (10YR 2/1) black, non plastic, loose, slightly moist.	135-P3C-Z30A-1.0-1.5	
		0.0	slightly moist	FILL				fine to coarse SAND, some gravel, some weathered asphalt, (10YR 2/1) black, non plastic, loose, slightly moist.
2	2	155	slightly moist	FILL		fine silty SAND, some rock fragments, little cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist, moderate petroleum odor.	135-P3C-Z30A-3.0-3.5	
		662	moist	FILL				fine to medium silty SAND, some gravel, little ash, little cinders, trace glass, trace coal, (10YR 2/1) black, non plastic, medium dense, moist, strong petroleum odor.
5	1.6	825	wet	FILL		ASH, some cinders, little sand, little gravel, (10YR 3/1) very dark gray, non plastic, medium dense, wet, strong petroleum odor.	135-P3C-Z30A-5.0-5.5	
		792	wet	FILL				ASH, some cinders, little glass fragments, little coal, (10YR 2/1) black, non plastic, loose, wet, strong petroleum odor, sheen.
7	1.2	105	wet	FILL		NO RECOVERY	135-P3C-Z30A-6.5-7.0	
				NR		some ash, little glass fragments, little brick, little ceramics, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, strong petroleum odor.		
9	1	90.8	wet	FILL		CINDERS, some ash, little gravel, little ceramics, little glass, (10YR 3/1) very dark gray, non plastic, loose, wet, strong petroleum odor, sheen.	135-P3C-Z30A-8.5-9.0	
				NR		NO RECOVERY		
11	1.4	37.4	wet	FILL		ASH, some cinders, little ceramics, little wood, little glass, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor, sheen.	135-P3C-Z30A-10.5-11.0	
				NR		NO RECOVERY		
13	1.2	42.5	wet	FILL		ASH, some cinders, little glass fragments, little ceramics, trace shells, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor.	135-P3C-Z30A-12.5-13.0	
				NR		NO RECOVERY		
15	2	82.7	wet	FILL		CINDERS, some ash, little glass fragments, trace brick, (10YR 2/1) black, non plastic, loose, wet, moderate petroleum odor.	135-P3C-Z30A-14.5-15.0	
		50.0	moist	FILL				SILT, some ash, little cinders, little roots, (10YR 2/1) black, medium plasticity, soft, moist, slight petroleum odor.
		55.6	moist	FILL				fine silty SAND, little cinders, little roots, trace brick, (10YR 4/2) dark grayish brown, non plastic, loose, moist, slight petroleum odor.
17	1.6	143	moist	PT		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.	135-P3C-Z30A-15.9-16.4	
		120	moist	PT				
18				NR		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.		
						NO RECOVERY		

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

















Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611160.2745
Date Started Drilling: 5/21/2013 11:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682481.647
Date Finished Drilling: 5/21/2013 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.08 ft NAVD88

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, weathered fragments and sub base, (10YR 2/1) black, non plastic, dense, slightly moist.	
2		0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, trace brick, trace coal, (7.5YR 3/2) dark brown, non plastic, loose, slightly moist.	135-P3C-Z31A-1.0-1.5
3	2	0.0	moist	FILL		fine to medium silty SAND, some gravel, trace coal, trace wood, trace plastic, (10YR 3/3) dark brown, non plastic, loose, moist.	135-P3C-Z31A-3.0-3.5
4		0.0	moist	FILL		ASH, some cinders, little gravel, trace metal, (10YR 4/1) dark gray, non plastic, loose, moist.	
5	1.5	14.4	wet	FILL		ASH, some cinders, little coal, little gravel, trace fill material, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor, sheen.	135-P3C-Z31A-5.0-5.5
6			NR			NO RECOVERY	
7	1	2.3	wet	FILL		ASH, some cinders, little glass fragments, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor, sheen.	135-P3C-Z31A-6.5-7.0
8			NR			NO RECOVERY	
9	1.8	0.0	wet	FILL		ASH, some cinders, little glass fragments, little gravel, trace fill material, (10YR 3/1) very dark gray, non plastic, loose, wet, slight petroleum odor, sheen.	135-P3C-Z31A-8.5-9.0
10			NR			NO RECOVERY	
11	1.3	0.0	wet	FILL		fine to medium CINDERS, little ash, little glass fragments, little gravel, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor.	135-P3C-Z31A-10.5-11.0
12			NR			NO RECOVERY	
13	1.1	0.0	wet	FILL		fine to medium CINDERS, little ash, little gravel, little coal, (10YR 2/1) black, non plastic, loose, wet.	135-P3C-Z31A-12.5-13.0
14		0.0	wet	FILL		SILT, little ash, little cinders, trace roots, (10YR 2/1) black, medium plasticity, soft, wet.	
15	2	17.2	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	135-P3C-Z31A-15.0-15.5
16							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: 611143.7679
Date Started Drilling: 4/21/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682462.8594
Date Finished Drilling: 4/21/2014 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula Property		Surface Elevation: 10.16 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1	0.5 1.5	0.0 0.0	slightly moist slightly moist	ASPHALT FILL	 	ASPHALT, weathered fragments and sub base, (10YR 2/1) black, non plastic, medium dense, slightly moist fine to medium SAND, some angular gravel little fill material, (10YR 2/1) black, non plastic, medium dense, slightly moist	135-P3C-Z32A-1.0-1.5
1 - 2	1.1	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little brick little glass, little cinders, (10YR 3/2) very dark grayish brown, non plastic, medium dense, slightly moist	
2 - 3	0.9	0.0	moist	FILL		ASH, some cinders, little fine to medium sand little wood fragments, trace brick, (10YR 4/1) dark gray, non plastic, loose, moist	135-P3C-Z32A-3.0-3.5
3 - 4	1.8	0.0	wet	FILL		ASH, some cinders, little glass fragments trace brick, trace fill material, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor	135-P3C-Z32A-5.0-5.5
4 - 5	0						
5 - 6	0.5 1.5	0.0 17.9	wet	FILL FILL	 	NO RECOVERY ASH, some cinders, little fine to medium sand, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor	
6 - 7		0.0	wet	FILL		ASH, some cinders, little ceramics little gravel, (10YR 4/1) dark gray, non plastic, loose, wet, slight burnt odor	135-P3C-Z32A-7.0-7.5
7 - 8	0.8	0.0	wet	FILL		ASH, some cinders, little ceramics little gravel, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor	135-P3C-Z32A-8.0-8.5
8 - 9	0	0.0		FILL		NO RECOVERY	
9 - 10	1	0.0	wet	FILL		ASH, some cinders, little glass fragments little wood, trace metal, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor	135-P3C-Z32A-10.0-10.5
10 - 11	0	0.0		FILL		NO RECOVERY	
11 - 12	0.8	0.0	wet	FILL		CINDERS, some ash trace metal, trace fill material, (10YR 2/1) black, non plastic, loose, wet, slight burnt odor	135-P3C-Z32A-12.0-12.5
12 - 13	0	0.0		FILL		NO RECOVERY	
13 - 14	0.8	0.0	moist	FILL		fine to medium silty SAND, little gravel little cinders, (5YR 4/2) dark reddish gray, low plasticity, medium dense, moist	135-P3C-Z32A-14.3-14.8
14 - 15	1.2	2.3	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	135-P3C-Z32A-14.8-15.3
15 - 16							

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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: Bucket Auger	Coordinates (NJSPNAD83) x: 611108.276
Date Started Drilling: 3/20/2014 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682372.412
Date Finished Drilling: 3/20/2014 1:10:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(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 coarse SAND, with cinders, little ash, trace coal, wood fragments, (5YR 2.5/2) dark reddish brown, medium dense, dry, no odor, no staining.	135-P3C-Z35A-1.0-1.5
2	5						
3							135-P3C-Z35A-3.0-3.5
4							
5	5	0.0	dry	FILL		CINDERS, with ash, (5YR 3/1) very dark gray, loose, dry, no odor, no staining.	135-P3C-Z35A-5.0-5.5
6		0.0	dry	FILL		fine to medium SAND, some gravel, little ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	135-P3C-Z35A-7.0-7.5
8		0.0	wet	FILL		medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	135-P3C-Z35A-9.0-9.5
9	5						
10							
11		0.0	wet	FILL		medium to coarse gravelly SAND, with cinders, ash, little glass fragments, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	135-P3C-Z35A-11.0-11.5
12	5						
13							135-P3C-Z35A-13.0-13.5
14							
15	5	0.0	wet	FILL		SILT, with wood fragments, (7.5YR 3/1) very dark gray, low plasticity, soft, wet, no odor, no staining.	135-P3C-Z35A-15.0-15.5
16		0.0	moist	SM		UNDno, SILT, with fine sand, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	135-P3C-Z35A-15.5-16.0
17		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
18		0.0	moist	OL		UNDorg, SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19		0.0	moist	SM		UNDno, SILT, (10YR 6/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	
20							

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 611081.196
Date Started Drilling: 3/20/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682318.928
Date Finished Drilling: 3/20/2014 11:15:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Narula Property		

(Note: bgs = below ground surface)


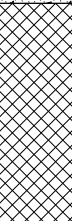
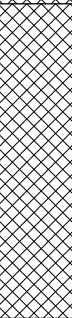
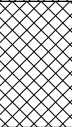




Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.		CONCRETE		CONCRETE	135-P3C-Z37A-1.0-1.5
		0.	dry	FILL		CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining.	
2	5	0.	dry	FILL		ASH, and cinders, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	135-P3C-Z37A-3.0-3.5
3		0.	dry	FILL			
4	5	0.	dry	FILL		CINDERS, with ash, some medium to coarse sand, little coarse gravel, trace glass, (5YR 4/1) dark gray, loose, dry, no odor, no staining.	135-P3C-Z37A-5.0-5.5
5		0.	dry	FILL			
6	5	0.	dry to moist	FILL		silty SAND, some cinders, ash, little to trace glass, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining.	135-P3C-Z37A-7.0-7.5
7		0.	moist	FILL		CINDERS, with ash, little gravel, little glass, (5YR 4/1) dark gray, loose, moist, no odor, no staining.	
8	5	0.	moist	FILL		medium to coarse gravelly SAND, little glass fragments, trace brick, (7.5YR 4/1) dark gray, medium dense, wet, no odor.	135-P3C-Z37A-9.0-9.5
9		0.	moist	FILL		medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	
10	5	0.	wet	FILL		medium to coarse gravelly SAND, little glass fragments, trace brick, (7.5YR 4/1) dark gray, medium dense, wet, no odor.	135-P3C-Z37A-11.0-11.5
11		0.	wet	FILL		medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	
12	5	0.	wet	FILL		medium to coarse SAND, with coarse gravel, some cinders and ash cinders, (7.5YR 5/1) gray, medium dense, wet, no odor, no staining.	135-P3C-Z37A-13.0-13.5
13		0.	wet	FILL			
14	5	0.	moist	FILL		silty SAND, little fibers, (10YR 5/2) grayish brown, soft, moist, no odor, no staining.	135-P3C-Z37A-15.0-15.5
15		0.	dry	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	135-P3C-Z37A-15.5-16.
16	5	0.	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
17		0.	dry	PT		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
18	5	0.	dry	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
19		0.	moist	SM		UNDno SILT, (10YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	
20	5	0.	moist	SM			

PPG - PPG_LOGS.GDT - 6/6/14 12:54

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: 60322149	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611121.53
Date Started Drilling: 8/28/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682332.2
Date Finished Drilling: 8/28/2015 8:01:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10
Physical Location: Former Narula Property - Bld 65		

(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	CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).			
2				FILL		CINDERS, some ash, little brick fragments, coal slag, coal fragments (0.3' of brown sand at bottom), loose, dry, no odor, iron oxide staining.	135-SI-AA36A-1.5-2.0		
3	5	0.0	moist	FILL		ASH, with cinders, some fine sand, little fine gravel, wood fragments, fill material, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.			
5									
6									
7	3	0.0	moist to wet	FILL		ASH, with cinders, some fine gravel, fine to medium sand, (7.5YR 2.5/1) black, moist to wet, no odor, no staining. DTW @ 10.0			
10									
11				wet	FILL		SILT, with fine sand, trace fibers, (2.5YR 5/1) reddish gray, soft, wet, no odor, no staining.		
12									
13	5	0.0	moist	NR		NO RECOVERY.			
14									
15									
16									
17	5	2.1	moist	FILL		SILT, and fine sand, trace fibers, medium gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.			
18				PT		PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining.			
19				OL		Soils consistent with MM. UNDorg SILT, (90% organic fibers, 10% organic silt), (10YR 4/2) dark grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.			
20		0.8	moist						
21									

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610948
Date Started Drilling: 9/10/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682253.3
Date Finished Drilling: 9/10/2015 1:20:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 12.5
Physical Location: Former Narula Property - Bld 51		








(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	3	1.6	moist	CONCRETE		CONCRETE, (advanced via starbit, 0.8' void space).	
2				FILL		CINDERS, and ash, little wood fragments, coal fragments, trace brick fragments, (7.5YR 2.5/2) very dark brown, moist, no odor, iron oxide staining.	135-W41A-1.3-1.8
3				NR		NO RECOVERY.	135-W41A-2.5-3.0
4	4	1.6	moist	FILL		CINDERS, and ash, little wood fragments, coal fragments, trace brick fragments, (7.5YR 2.5/1) black, moist, no odor, iron oxide staining.	135-W41A-4.5-5.0
6							135-W41A-6.5-7.0
8							
9	3	3348	moist	FILL		CINDERS, and ash, little wood fragments, coal fragments (petroleum impacts @8.5-8.8), (7.5YR 2.5/1) black, loose, moist, strong petroleum odor, hydrocarbon staining.	135-W41A-8.5-9.0
11				NR		NO RECOVERY.	135-W41A-10.5-11.0
12							
13	4	>9999	wet	FILL		fine SAND, with cinders, some wood fragments, fine to medium gravel, (10YR 3/2) very dark grayish brown, wet, strong hydrocarbon odor, hydrocarbon staining.	135-W41A-12.5-13.0
14				FILL		SILT, some fine sand, fine to coarse gravel, little wood fragments, (10YR 2/2) very dark brown, moist, no staining, slight odor, DTW @12.5'.	135-W41A-14.5-15.0
15							
16	2	0.0	wet	FILL		SILT, trace fine gravel, trace organic fibers, (10YR 3/3) dark brown, wet, slight organic odor, no staining.	135-W41A-15.8-16.3
17				PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), medium dense, moist, moderate organic odor, no staining. Soils consistent with MM.	135-W41A-16.3-16.8
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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610962.6
Date Started Drilling: 9/9/2015 8:30:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682212.8
Date Finished Drilling: 9/9/2015 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 51		

(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	1.5	0.0		CONCRETE		CONCRETE, (0.8' concrete core recovered, 0.8' of void space).	
2		0.0	moist	FILL		CINDERS, with ash, some coal fragments, trace concrete fragments, (10YR 2/2) very dark brown, moist, no odor, iron oxide staining.	135-X42A-1.6-2.1
3				NR		NO RECOVERY.	135-X42A-2.5-3.0
4	3	0.0	moist	FILL		CINDERS, with ash, some coal fragments, trace wood fragments, trace brick fragments, (5Y 4/1) dark gray, moist, no odor, iron oxide staining.	135-X42A-4.5-5.0
5							
6					NR		NO RECOVERY.
7							
8	4	0.0	slightly moist	FILL		fine to medium SAND, some cinders, some fine to coarse gravel, trace brick fragments, (10YR 4/3) brown, slightly moist, no odor, no staining, DTW @ 10.0'.	135-X42A-8.5-9.0
9							
10							
11							135-X42A-10.5-11.0
12	3	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, some cinders, trace wood fragments, (7.5YR 3/1) very dark gray, wet, no odor, no staining.	135-X42A-12.5-13.0
13							
14					NR		NO RECOVERY.
15							
16	4	0.0	wet	FILL		SILT, and fine sands, some coarse gravel, trace organic material, (2.5YR 6/1) reddish gray, wet, slight organic odor, no staining.	135-X42A-16.3-16.8
17		0.0	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silts), (10YR 3/3) dark brown, non plastic stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	135-X42A-16.8-17.3
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:02

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611081.45
Date Started Drilling: 8/26/2015 8:30:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682385.99
Date Finished Drilling: 8/26/2015 9:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 65		

(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	dry	CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).		
2				FILL		CINDERS, some ash, little fine to medium sand, fine gravel, (7.5YR 2.5/1) black, loose, dry, no odor, iron oxide staining.	135-Y35A-1.5-2.0	
3								135-Y35A-3.0-3.5
4				NR			NO RECOVERY.	
5	4.5	0.0	moist	FILL		ASH, and fine to medium sand, some medium gravel, little cinders, trace fibers, fill material, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-Y35A-5.0-5.5	
6								
7				FILL		fine to medium SAND, with silt, little cinders, fine gravel, (7.5YR 4/2) brown, loose, moist no odor, no staining.	135-Y35A-7.0-7.5	
8								
9				NR		NO RECOVERY.	135-Y35A-9.0-9.5	
10	3.5	0.0	wet	FILL		fine to medium SAND, with silt, (brown silt lens @ 10.0-10.2) some fine to medium gravel, little cinders, little ash, fill material, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining. DTW @ 10.0'	135-Y35A-11.0-11.5	
11								
12								
13				NR			NO RECOVERY.	135-Y35A-13.0-13.5
14				NR		NO RECOVERY.		
15	5	103.2	moist	FILL		SILT, and fine to medium sand, little fine to medium gravel, trace fibers, (7.5YR 4/1) dark gray, moist, moderate solvent odor, no staining.	135-Y35A-15.0-15.5	
16		0.0	wet	FILL			135-Y35A-15.7-16.2	
17		0.0	wet	FILL		fine to coarse SAND, and fine to medium gravel, some cinders, little ash, fill material, (7.5YR 3/1) very dark gray, loose, wet no odor no staining.	135-Y35A-16.2-16.7	
18		1.7	moist	PT		fine to coarse SAND, some fine to medium gravel (grades coarser with depth), trace cinders, ash, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining. PEAT (degraded vegetated material), (70% organic silt, 30% organic fibers), (10YR 4/2) dark grayish brown, low plasticity soft, moist moderate organic odor no staining. Soils consistent with MM.		
19								
20								

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:42

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: Direct Push	Coordinates (NJSPNAD83) x: 611067.9
Date Started Drilling: 8/28/2015 11:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682359.2
Date Finished Drilling: 8/28/2015 12:50:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 65		

(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		CONCRETE		CONCRETE, (advanced via starbit, .5' void space).	
2		0.0	dry	FILL		CINDERS, and ash, little coal fragments, weathered concrete, (7.5YR 2.5/1) black, loose, dry, no odor, iron oxide staining.	135-Y36A-1.5-2.0
3							
4				NR		NO RECOVERY.	135-Y36A-3.5-4.0
5	5	0.0	moist	FILL		ASH, some cinders, little fill material, glass and wood fragments, (7.5YR 5/1) gray, moist, no odor, no staining.	135-Y36A-5.5-6.0
6							
7							
8							135-Y36A-7.5-8.0
9							
10							135-Y36A-9.5-10.0
11	4	0.0		FILL		ASH, with cinders, little fine to medium gravel and fill material, (7.5YR 2.5/1) black, loose, slight solvent odor, black staining.	135-Y36A-11.5-12.0
12							
13							
14		0.0	moist	FILL		SILT, and fine sand, trace fibers, medium gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.	135-Y36A-13.5-14.0
15				NR		NO RECOVERY.	
16	3	35.3	moist	FILL		SILT, some fine sand, little fibers, (10YR 4/1) dark gray, soft, moist, moderate solvent odor, no staining.	135-Y36A-15.5-16.0
17		1.2	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 4/2) dark grayish brown, low plasticity soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	135-Y36A-16.0-16.5
18		0.0			NR		NO RECOVERY.
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/6/15 16:38

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611054.5
Date Started Drilling: 8/27/2015 9:15:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682332.4
Date Finished Drilling: 8/27/2015 10:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: M.Irving	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 55		








(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				CONCRETE		CONCRETE, (advnaced via starbit, .5' void space).	
2	5	0.0	moist	FILL		fine to medium SAND,some cinders,trace slag,crushed concrete,(2.5YR 3/3) dark reddish brown,loose,moist,no odor,no staining, (chromium leachate staining @ 1.5-1.8)	135-Y37A-1.5-2.0
3							
4		0.0	dry	FILL		CINDERS, some ash,little coal fragments,wood fragments,trace brick fragments (brown sand lens @ 3.8-4.0),(7.5YR 2.5/1) black, loose,dry,no odor,iron oxide staining.	135-Y37A-3.5-4.0
5	4	0.0	slightly moist	FILL		ASH,some cinders,coal fragments,(7.5YR 5/1) gray,loose,slightly moist,no odor,iron oxide staining.	135-Y37A-5.5-6.0
6							
7							
8							
9		0.0	moist	FILL NR		CINDERS, and fine to medium sand,some fine gravel,little ash,wood fragments,fibers,(7.5YR 4/1) dark gray,loose,moist,no odor,no staining. NO RECOVERY.	135-Y37A-8.5-9.0
10	5	0.0	wet	FILL		CINDERS,and fine to medium sand,some fine to medium gravel,little ash,wood fragments,trace ceramics,(7.5YR 3/1) very dark gray,loose,wet,no odor,no staining,DTW @ 10.0.	135-Y37A-10.0-10.5
11							
12							
13							
14		0.0	moist	FILL		fine to medium SAND,little fill material, (7.5YR 3/2) dark brown,loose,moist,no odor,no staining.	135-Y37A-14.0-14.5
15		0.0	moist	FILL		fine SAND,and silt,little fine gravel,(2.5YR 5/1) reddish gray,loose,moist,no odor,no staining.	135-Y37A-15.5-16.0
16	3	1.3	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers),(7.5YR 3/3) dark brown,soft, moist,moderate organic odor,no staining. Soils consistent with UNDorg.	135-Y37A-16.0-16.5
17							
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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611027.43
Date Started Drilling: 8/25/2015 9:50:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682278.84
Date Finished Drilling: 8/25/2015 12:15:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 11.0
Physical Location: Former Narula Property - Bld 55		

(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, (advanced via starbit, 0.5' void space).	
2		0.0	dry	FILL		CINDERS, some fine to medium sand, little fine gravel, trace coal fragments, (5YR 4/4) reddish brown, loose, dry, iron oxide staining.	135-Y39A-1.5-2.0
3							
4				NR		NO RECOVERY.	135-Y39A-3.5-4.0
5	5	0.0	moist	FILL		ASH, and cinders, some wood fragments, fine sand, little silt, trace coal fragments, (10YR 5/1) gray, moist, no odor, no staining.	135-Y39A-5.5-6.0
6		0.0	moist	FILL		ASH, some fine to medium sand (red fine sand lens @ 7.0-7.3) little wood fragments, fine to medium gravel, trace fibers, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	135-Y39A-7.5-8.0
7							
8				NR		NO RECOVERY.	135-Y39A-8.5-9.0
9	5	0.0	wet	FILL		SILT, some fine to medium sand, little wood fragments, fine to medium gravel, trace ash (@ 10.0-10.3), (7.5YR 3/1) very dark gray, soft, wet, no odor, no staining, DTW @ 11.0.	135-Y39A-10.5-11.0
10							
11							
12							135-Y39A-12.5-13.0
13							
14							135-Y39A-14.5-15.0
15	5	46.5	moist	FILL		SILT, and fine to medium sand, little fine to medium gravel, slight hydrocarbon odor @ 15.0-15.3, (2.5YR 5/1) reddish gray, soft, moist, no staining.	135-Y39A-15.5-16.0
16		1.3	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers), (less fibrous with depth), low plasticity stiff to soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	135-Y39A-16.0-16.5
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:13

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611014.8
Date Started Drilling: 9/11/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682251.1
Date Finished Drilling: 9/11/2015 9:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 51		

(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	3	0.0		CONCRETE		CONCRETE, (advanced via starbit 1.0' of void space.)	
2		0.0	dry	FILL		ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining.	135-Y40A-1.5-2.0
3				NR		NO RECOVERY.	135-Y40A-2.5-3.0
4	3	0.0	dry	FILL		ASH,some cinders,little coal fragments,(10YR 5/2) grayish brown,dry,no odor,iron oxide staining.	135-Y40A-4.5-5.0
6		0.0	moist	FILL		CINDERS,little ash,trace coarse gravel,trace coal slag,(5Y 2.5/1) black,moist,iron oxide staining.	135-Y40A-6.5-7.0
7				NR		NO RECOVERY.	
8	4	44.7	dry	FILL		ASH,some cinders,little coal fragments,(10YR 4/2) dark grayish brown,dry,slight petroleum odor,hydrocarbon staining.	135-Y40A-8.5-9.0
9		1.2	moist	FILL		fine to medium SAND,some soot, (10YR 2/2) very dark brown,moist,no odor,no staining.	
10		0.0	moist	FILL		CINDERS,some ash,little fine to medium gravel,little concrete,(10YR 5/1) gray,moist,no odor,iron oxide staining.	135-Y40A-10.5-11.0
11	4						
12		0.0	moist	FILL		fine SAND, little ash, trace silt, (10YR 2/2) very dark brown,moist,no odor,no staining.	135-Y40A-12.5-13.0
14		0.0	moist	FILL		SILT, little fine sands, little organics, (10YR 2/2) very dark brown,moist, no odor,trace black staining.	135-Y40A-14.5-15.0
15							135-Y40A-15.5-16.0
16	4	0.0	moist	OL		UNDorg(90% organic silts 10% organic fibers), stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	135-Y40A-16.0-16.5
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:47

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611000.4
Date Started Drilling: 9/10/2015 12:00:00 PM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682225.3
Date Finished Drilling: 9/10/2015 1:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 51		

(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	3.7			CONCRETE		CONCRETE, (advanced via starbit 0.8' void space.)	
2		0.0	dry	FILL		ASH, with cinders, little coal fragments, little brick fragments, (10YR 2/2) very dark brown, dry no odor no staining.	135-Y41A-1.3-1.8
3		0.0	dry	FILL		BRICK, with weathered brick.	
4	3			NR		NO RECOVERY.	
5		10.2	slightly moist	FILL		ASH, with interbedded cinders, little coal fragments, little brick fragments., (2.5Y 3/1) very dark gray, slightly moist, slight hydrocarbon odor, iron oxide and hydrocarbon staining.	135-Y41A-4.5-5.0
6				NR		NO RECOVERY.	135-Y41A-6.5-7.0
7	4			NR		NO RECOVERY.	
8		0.0	moist	FILL		ASH, and fine to medium sands, some cinders, (10YR 3/1) very dark gray, moist, no odor, no staining.	135-Y41A-8.5-9.0
9		0.0	moist	FILL		fine to medium SAND, little ash, (10YR 2/1) black, moist, no odor, no staining.	135-Y41A-10.5-11.0
10	4			NR		NO RECOVERY.	
11				NR		NO RECOVERY.	
12		0.0	wet	FILL		fine to medium SAND, little ash, (10YR 2/1) black, wet, no odor, no staining.	135-Y41A-12.5-13.0
13	4			NR		NO RECOVERY.	
14		0.0	wet	FILL		SILT, some fine sand, trace ash, (10YR 3/3) dark brown, wet, no odor, no staining.	135-Y41A-14.5-15.0
15				NR		NO RECOVERY.	135-Y41A-15.5-16.0
16	4			OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 5/2) grayish brown, soft, moist, no odor, no staining. Soils consistent with UNDorg.	135-Y41A-16.0-16.5
17				NR		NO RECOVERY.	
18				NR		NO RECOVERY.	
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:03

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610991.6
Date Started Drilling: 9/9/2015 8:20:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682207
Date Finished Drilling: 9/9/2015 11:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 51		

(Note bgs = below ground surface)


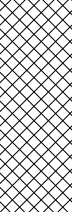

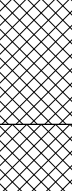





Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.7	0.0		CONCRETE		CONCRETE, (.75' concrete core recovered, 0.6' of void space).	
2		0.0	slightly moist	FILL		CINDERS, some ash, little coal fragments, trace wood fragments, (7.5YR 2.5/1) black, loose, slightly moist, no odor, iron oxide staining.	135-Y42A-1.3-1.8
3				NR		NO RECOVERY.	135-Y42A-2.5-3.0
4	3	0.0	slightly moist	FILL		CINDERS, some ash, little coal fragments, (brick @ 5.1-5.6), (7.5YR 2.5/1) black, loose, slightly moist, no odor, iron oxide staining.	135-Y42A-4.5-5.0
6				NR		NO RECOVERY.	135-Y42A-6.5-7.0
7							
8	4	0.0	moist	FILL		ASH, and fine to medium gravel, some cinders, little wood fragments, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining, DTW @ 10.0'.	135-Y42A-8.5-9.0
9							
10							
11	4	0.0	moist	FILL		fine to medium SAND, some fine to medium gravel, little brick fragments, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-Y42A-12.5-13.0
12		0.0	moist	FILL		SILT, and fine sand, some organics, (brown silt with organics @ 13.0-13.7) trace fine gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.	135-Y42A-14.5-15.0
13							
14	2.5	0.0	moist	FILL		SILT, and fine sand, some organics, trace fine gravel, (2.5YR 5/1) reddish gray, soft, moist, no odor, no staining.	135-Y42A-16.0-16.5
15		1.2	moist	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR 4/2) dark grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	135-Y42A-16.5-17.0
16		2.6	moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
17				NR		NO RECOVERY.	
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A_GDT - 9/28/15 11:03

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611135.3
Date Started Drilling: 9/3/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682426
Date Finished Drilling: 9/3/2015 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 71		

(Note bgs = below ground surface)



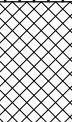
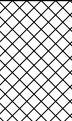
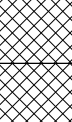
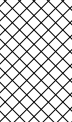
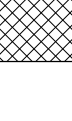

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0	dry	CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).		
2				FILL		CINDERS, and ash, coal fragment, little wood fragments, fine gravel, (10YR 3/4) dark yellowish brown, loose, dry, no odor, iron oxide staining.	135-Z33A-1.5-2.0	
3	5	0.0	moist	FILL		SILT, some fine sand, some mottling, (ash lens @ 5.0-5.2), (10YR 5/4) yellowish brown, medium stiff, moist, no odor, no staining.	135-Z33A-3.5-4.0	
4				FILL			CINDERS, and fine sand, little coal slag, fine to medium gravel, (7.5YR 2.5/1) black, loose, slightly moist, no odor, no staining.	135-Z33A-5.5-6.0
5				FILL			CINDERS, some fine to medium gravel, little ash, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-Z33A-7.5-8.0
6	4	1.0	slightly moist	FILL		CINDERS, some fine to medium gravel, ash, trace wood fragments, (7.5YR 4/1) dark gray, wet, no odor, no staining, DTW @ 10.0'.	135-Z33A-9.5-10.0	
7				FILL			CINDERS, some fine to medium gravel, ash, trace wood fragments, (7.5YR 4/1) dark gray, wet, no odor, no staining, DTW @ 10.0'.	135-Z33A-11.5-12.0
8				FILL			CINDERS, some fine to medium gravel, ash, trace wood fragments, (7.5YR 4/1) dark gray, wet, no odor, no staining, DTW @ 10.0'.	135-Z33A-13.5-14.0
9				NR			NO RECOVERY.	
10	5	0.0	moist	FILL		fine SAND, little silt, (black silt lens @ 15.0-15.2) mottling, trace fine to medium gravel, fibers, (10YR 5/4) yellowish brown, dense, moist, no odor, no staining.	135-Z33A-15.4-15.9	
11				OL			UNDorg SILT, (90% organic fibers, 10% organic silt, less fibrous with depth), (7.5YR 3/2) dark brown, moist slight organic odor no staining. Soils consistent with UNDorg.	135-Z33A-15.9-16.4
12	5	1.8	moist					
13								
14	5	1.8	moist					
15								
16	5	1.8	moist					
17								
18	5	1.8	moist					
19								
20	5	1.8	moist					
21								

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611121.8
Date Started Drilling: 9/3/2015 7:30:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682399.2
Date Finished Drilling: 9/3/2015 9:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 71		

(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, (advanced via starbit.)	
2							
3							
4		0.0	slightly moist	FILL		CINDERS,some ash,fine sand,little coal fragments,(7.5YR 2.5/1) black,loose,slightly moist,no odor,iron oxide staining.	135-Z34A-3.5-4.0
5	5	0.0	slightly moist	FILL		CINDERS,some ash,fine sand,little coal fragments,wood fragments fine gravel,cinders(brown silt lens @ 6.7-7.0),(10YR 3/6) dark yellowish brown,loose,slightly moist,no odor, iron oxide staining.	135-Z34A-5.0-5.5
6							
7							
8		0.0	moist	FILL		CINDERS,some ash,little fine sand,fine to medium gravel,trace wood fragments,(7.5YR 2.5/1) black, loose,moist,no odor,no staining.	135-Z34A-7.0-7.5
9							135-Z34A-9.0-9.5
10	4	0.0	moist	FILL		CINDERS, and ash,little fine sand,fine to medium gravel,(7.5YR 2.5/1) black,loose,moist,no odor,no staining.	135-Z34A-11.0-11.5
11							
12							
13		0.0	moist	FILL		SILT,trace fibers,(7.5YR 3/2) dark brown,low plasticity soft, moist,no odor,slight black staining.	135-Z34A-13.0-13.5
14				NR		NO RECOVERY.	
15	5	0.0	moist	FILL		fine SAND,some silt,mottling,(10YR 5/4) yellowish brown,dense,moist,no odor,no staining.	135-Z34A-15.0-15.5
16							135-Z34A-15.5-16.0
17			0.0	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers, less fibrous with depth) (10YR 4/2) dark grayish brown,low plasticity soft,moist,no odor. Soils consistent with UNDorg.
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: Direct Push	Coordinates (NJSPNAD83) x: 611094.8
Date Started Drilling: 8/26/2015 10:07:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682345.7
Date Finished Drilling: 8/26/2015 11:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Narula		Surface Elevation: 14.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	1.5	0.0	dry	CONCRETE		CONCRETE,(advanced via starbit,.5' void space).		
2				FILL		CINDERS,with fine to medium sand,little ash,fine to medium gravel,trace coal fragments,wood fragments,(7.5YR 2.5/1) black,loose,dry,no odor,iron oxide staining.	135-Z36A-1.5-2.0	
3				NR		NO RECOVERY.	135-Z36A-3.0-3.5	
4								
5	5	0.0	moist	FILL		ASH, with cinders,(iron oxide staining @5.0-5.7'),some fine to medium sand,little fine to medium gravel,fill material,glass fragments,wood fragments,(7.5YR 4/1) dark gray,moist.	135-Z36A-5.0-5.5	
6								135-Z36A-7.0-7.5
7								
8								
9							135-Z36A-9.0-9.5	
10	3.5	0.0	moist	FILL		ASH, with cinders,some fine to medium sand, little fine to medium gravel,fill material,glass fragments,(7.5YR 4/1) dark gray,moist,no odor,no staining.	135-Z36A-11.0-11.5	
11								
12								
13							135-Z36A-13.0-13.5	
14				NR		NO RECOVERY.		
15	5	0.0	moist	FILL		SILT,trace fibers,fill material, (7.5YR 3/2) dark brown,low plasticity soft,moist,no odor,no staining.	135-Z36A-15.0-15.5	
16		0.0	wet	FILL		fine to medium SAND,some silt,trace fine to medium gravel,(2.5YR 6/1) reddish gray,loose,wet,no odor,no staining.	135-Z36A-15.7-16.2	
17		2.1	moist	PT		PEAT (degraded vegetated material),(70% organic fibers, 30% organic silt,(7.5YR 3/2) dark brown,stiff,moist moderate organic odor,no staining. Soils consistent with MM.	135-Z36A-16.2-16.7	
18								
19								
20								




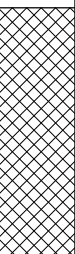
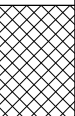
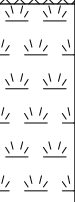
Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/21/17 11:25

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611067.8
Date Started Drilling: 8/24/2015 11:05:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682292.1
Date Finished Drilling: 8/24/2015 12:35:00 PM	Core Size: 2.0 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 55		

(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	3.5	0.0		CONCRETE		CONCRETE, (advanced via starbit, 0.5' void space).	
2		0.0	dry	FILL		ASH, and cinders, trace fill material, wood fragments, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-Z38A-1.5-2.0
3		0.0	dry	FILL		fine to medium SAND, little medium gravel, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	135-Z38A-3.0-3.5
4		0.0		NR		NO RECOVERY.	
5	4	0.0	moist	FILL		ASH, with cinders, some fill material, little fine to medium gravel, silt, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	135-Z38A-5.0-5.5
6							135-Z38A-7.0-7.5
7							135-Z38A-8.0-8.5
8		0.0		NR		NO RECOVERY.	
9	5	0.0	wet	FILL		ASH, and cinders, some fill material, little fine to medium gravel, silt, wet, no odor, no staining, DTW @ 10.0'bgs.	135-Z38A-10.0-10.5
10							135-Z38A-11.3-11.8
11		0.0	moist	PT		PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, low plasticity soft, moist, slight organic odor, no staining. Soils consistent with MM.	135-Z38A-11.8-12.3
12							
13							
14							
15							

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: Direct Push	Coordinates (NJSPNAD83) x: 611054.2
Date Started Drilling: 8/24/2015 12:45:00 PM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682265.4
Date Finished Drilling: 8/24/2015 2:30:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Former Narula Property - Bld 55		

(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, (advanced via starbit, 0.5' void space).	
2		0.0	dry	FILL		CINDERS,some ash,trace brick fragments,coal fragments,weathered concrete,(10YR 3/6) dark yellowish brown,loose, dry,no odor,iron oxide staining.	135-Z39A-1.5-2.0 135-Z39A-2.0-2.5
3		0.0		CONCRETE		CONCRETE.	
4	4						
5		0.0	moist	FILL		fine to medium SAND,trace ash (7.5YR 4/2) brown,orange mottling,dense,moist,no odor,no staining.	135-Z39A-6.0-6.5
6							
7							
8							
9		0.0		NR		NO RECOVERY.	
10	5	0.0	wet	FILL		ASH,some cinders,little fine sand,silt,fill material,trace fibers trace,(7.5YR 4/1) dark gray,loose,wet,no odor,no staining.	135-Z39A-10.0-10.5
11		0.0	moist	FILL		SILT, some fine to medium sand(brown 0.5' silt lens from 11.0-11.5, trace fibers) little fine gravel, (5YR 3/4) dark reddish brown,loose, moist to wet,no odor,no staining.	135-Z39A-12.0-12.5
12							
13							
14							
15	5	0.0	wet	FILL		SILT, and fine to medium sand,little fine gravel,(5YR 4/3) reddish brown,soft,wet,no odor,no staining.	135-Z39A-15.0-15.5
16		2.1	slightly moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff,slightly moist,moderate organic odor,no staining.	135-Z39A-15.5-16.0
17		0.9	moist	OL		Soils consistent with MM. UNDorg SILT (90% organic silt, 10% organic fibers) less fibrous with depth, (10YR 4/2) dark grayish brown, low plasticity medium soft, moist slight organic odor no staining. Soils consistent with UNDorg.	
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/8/15 15:30

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611036.1
Date Started Drilling: 8/25/2015 8:01:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682244.6
Date Finished Drilling: 8/25/2015 9:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 10.0
Physical Location: Former Narula Property - Bld 51		

(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	3.5	0.0		CONCRETE		CONCRETE, (advanced via starbit, 0.5' of void space).	
2		0.0	dry	FILL		CINDERS, some ash, little coal slag, wood fragments, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-Z40A-1.5-2.0
3							135-Z40A-3.0-3.5
4					NR		NO RECOVERY.
5	5	0.0	moist	FILL		SILT, and fine sand, little ash, cinders, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	135-Z40A-5.0-5.5
6							135-Z40A-7.0-7.5
8		84.8	moist	FILL		SILT, and fine sand, trace fine gravel ash cinders, hydrocarbon impacts @ 7.3-7.8, (10YR 4/2) dark grayish brown, soft, moist moderate petroleum odor, sheen on bottom	135-Z40A-9.0-9.5
9							135-Z40A-11.0-11.5
10	4	0.0	moist	FILL		ASH, some cinders, fine to medium gravel, fill material, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining, @ 10.5-11.0, DTW @ 10.0'.	135-Z40A-11.0-11.5
11							
12		0.0	wet	FILL		SILT, some fine to medium sand, trace fibers, (7.5YR 3/2) dark brown, soft, wet, no odor, no staining.	135-Z40A-13.0-13.5
13		0.0	saturated	FILL		SILT, and fine to medium sand, (2.5YR 5/1) reddish gray, very soft, saturated, no odor, no staining.	135-Z40A-13.5-14.0
14	5	1.6	moist	PT		PEAT, (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, soft to stiff, moist, slight organic odor, no staining. Soils consistent with MM.	135-Z40A-14.0-14.5
15		0.7	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers) (less fibrous with depth), (7.5YR 3/2) dark brown, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
16							
17							
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/6/15 17:16

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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611027.2
Date Started Drilling: 8/31/2015 8:25:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682211.8
Date Finished Drilling: 8/31/2015 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 51 (Street)		

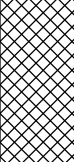



(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	ASPHALT		ASPHALT.	135-Z41-0.1-0.6
		0.0		FILL		fine to medium SAND, and fine to medium gravel, trace brick and asphalt fragments, (10YR 3/2) very dark grayish brown, loose, dry, no odor, no staining.	
		0.0		FILL		crushed CONCRETE.	
2		0.0	moist	FILL		fine to medium SAND, and cinders, some coal, little medium to coarse gravel, (7.5YR 2.5/1) black, loose, moist, no odor, iron oxide staining.	135-Z41-1.5-2.0
3							
4				NR		NO RECOVERY.	135-Z41-3.5-4.0
5	5	0.0	moist	FILL		fine to medium SAND, and ash, little cinders, fill material, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	135-Z41-5.5-6.0
6							
7		4.8	moist	FILL		SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft, moist to wet, no odor, slight black staining, DTW @ 7.0'.	135-Z41-7.5-8.0
8		0.0	moist	FILL		SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining.	135-Z41-9.5-10.0
9							
10							
11	5	0.0	moist	FILL		SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (5YR 4/3) reddish brown, soft, moist, no odor, no staining.	135-Z41-11.5-12.0
12							
13							
14		1.8	slightly moist	PT		PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, stiff, moderate organic odor, no staining. Soils consistent with MM.	135-Z41-13.0-13.5
15		0.9	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	135-Z41-13.5-14.0
16						UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	
17	5	1.1	moist	OL			
18							
19							
20							

PPG - 2012-09 RA PPG_LOGS_A.GDT - 9/28/15 11:43

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: Direct Push	Coordinates (NJSPNAD83) x: 610910.8
Date Started Drilling: 11/4/2016 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682257.8
Date Finished Drilling: 11/4/2016 9:30:00 AM	Core Size:	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water:
Physical Location: Actual - Smith PDI		Surface Elevation: 10.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	307	dry	FILL		fine to medium SAND, some ash, (7.5YR 3/3) dark brown, medium dense, dry, moderate fuel oil-like odor, no staining.		
2-3			dry to wet	FILL		ASH, some fine to medium sand, (5Y 5/1) gray, loose, dry to wet, moderate fuel oil like-odor and staining, water at 4.0 feet.		
4-5	5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fuel oil-like odor and staining.		
6-8			wet	FILL		fine to medium SAND, some ash, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-V41AR-8.0-8.5	
9-10	4.5	2.0					ASM-V41AR-10.0-10.5	
11-12			wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-V41AR-12.0-12.5	
13-14			dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM. NO RECOVERY	ASM-V41AR-13.0-13.5
14-15				NR				

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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

Boring ID: EF-19

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611215.886
Date Started Drilling: 4/19/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682371.915
Date Finished Drilling: 4/19/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/23.5 ft
Physical Location: Pacific Avenue		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PI (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0		2			Black Asphalt	EF-B19_0.8
2		0	dry	3	Fill		Dark Brown (7.5YR 3/2) fine SAND, some Silt, little fine to medium angular Gravel, trace Cobbles, medium dense, dry. No odor.	EF-B19_2.0
3		0	dry	6	Fill		Black fine to coarse SAND, GRAVEL and Fill Material (slag, ash, cinders), very loose, dry. No odor.	EF-B19_2.5
4		0						EF-B19_4.0
5		24.2						
6	1.5	98.6	wet	3	Fill		Black to Dark Reddish Gray (5YR 4/2) SILT and fine to medium SAND, little fine angular Gravel and Concrete, trace Coal, loose, wet. Napthalene odor.	EF-B19_6.0
7					Fill		No Recovery	
8								
9								
10		33.4						EF-B19_10.0
11	1.1	1.7	wet	3	Fill		Same as above.	EF-B19_11.0
12					Fill		No Recovery	
13								
14								
15		18.5						EF-B19_15.0
16	3.4	143	moist	3	Fill		Reddish Brown (2.5YR 4/3) fine SAND, little very fine Sand and Silt, medium dense, moist. No odor.	EF-B19_15.0X
17		191	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B19_17.5
18						PT		EF-B19_17.5X
19								
20		3.5						
21	4.3	4	moist	7	PT		Same as above, interbedded with Red-Brown Silty Sand.	
22		101	wet	8	SP		Gray (Gley1 3/0) very fine to fine SAND, trace Silt, medium dense, wet. No odor.	EF-B19_22.5
23		113						
24								
25					SP		No Recovery	
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 ST US LAB.G T - 11/3/11 14:35 - \\USPSW2\FP001.ATA.USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAMS-WORKFILES\PROJECT MANAGER-CATAL OB\GA RI-SOIL INVESTIGATION\FIELD WORKING BORING 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: Geoprobe	Coordinates (NJSPNAD83) x: 611289.093
Date Started Drilling: 8/5/2011	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682499.735
Date Finished Drilling: 8/5/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6/22 ft
Physical Location: Inside Site 133 Building.		

(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	5	0	dry	1	Fill		Concrete Slab		
2		0							
3		0	dry	1	Fill		2nd Concrete Slab	EF-B77 3.0	
4		0	dry	3	Fill		Brown (7.5YR 4/2) to Black SILT and FILL (brick, cinders, coal, glass), trace Gravel, loose. No odor.	EF-B77 4.0	
5		0							
6	2	0	wet	6	Fill		Gray (10YR 5/1) ASH and CINDERS, loose, wet at 6.0'. No odor.	EF-B77 6.0	
7									
8			wet	6	Fill		No Recovery		
9									
10		1.1							EF-B77 10.0
11	2	0	wet	6	Fill		Same as above, petroleum odor.		
12									
13			wet	6	Fill		No Recovery		
14									
15		2.7							EF-B77 15.0
16	2	1	wet	6	Fill		Same as above, petroleum odor.		
17			moist	7	PT			Dark Reddish Brown (5YR 4/3) PEAT, Organics, medium dense. Sulfur odor.	
18			moist	7	PT			No Recovery	
19									
20		2.8							EF-B77 20.0
21	2.5	3.7	moist	7	PT		Same as above, little Silty Clay.		
22		0							EF-B77 22.0
23			wet	8	SP			Gray (Gley1 6/0) very fine SAND, trace Silt, medium dense. No odor.	
24			wet	8	SP			No Recovery	
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.



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: Geoprobe	Coordinates (NJSPNAD83) x: 611331.4604
Date Started Drilling: 8/12/2011	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682609.4402
Date Finished Drilling: 8/12/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/23 ft
Physical Location: Inside Site 135 Building		

(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	1.9	0	dry	1	Fill		Concrete Slab	
2		moist	6	6	Fill		Concrete and Black SILT, some Ash and Cinders, loose. No odor. No Recovery	EF-B78_1.5
3		moist	6	6	Fill			
4	0.5	0					Brown (7.5YR 4/2) CINDERS and SILT, little wood, slag and metal, loose. No odor. No Recovery	
5								
6		wet	6	6	Fill			
7	1.3	0	wet	6	Fill		Black CINDERS and SILT, little wood, slag and metal, loose. Slight tar odor. No Recovery	
8								
9		wet	6	6	Fill			
10	0	0					Same as above. No Recovery	EF-B78 10.0
11								
12								
13	1.8	10.1	wet	6	Fill		Grayish Brown (10YR 5/2) Silty CLAY and PEAT, some to high Organics, medium dense. Sulfur odor. No Recovery	EF-B78 15.0
14								
15		moist	7	7	PT			
16	3.3	1.3	moist	7	PT		Dark Reddish Brown (5YR 4/3) PEAT, high Organics, trace Silty Clay, medium dense. Sulfur odor. No Recovery	
17								
18		41.7						
19	8	65.8					Gray (Gley1 5/0) very fine SAND, loose. No odor. No Recovery	
20								
21		wet	8	8	SP			
22	0	0					End of boring at 25 ft.	
23								
24		wet	8	8	SP			
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.