


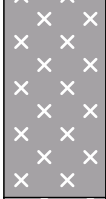

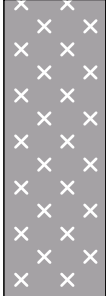
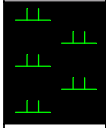

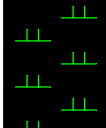
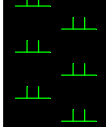
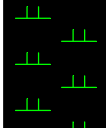
## **Appendix G**

### **Boring Logs**

Boring logs for the remaining sample locations in Al Smith Moving 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.




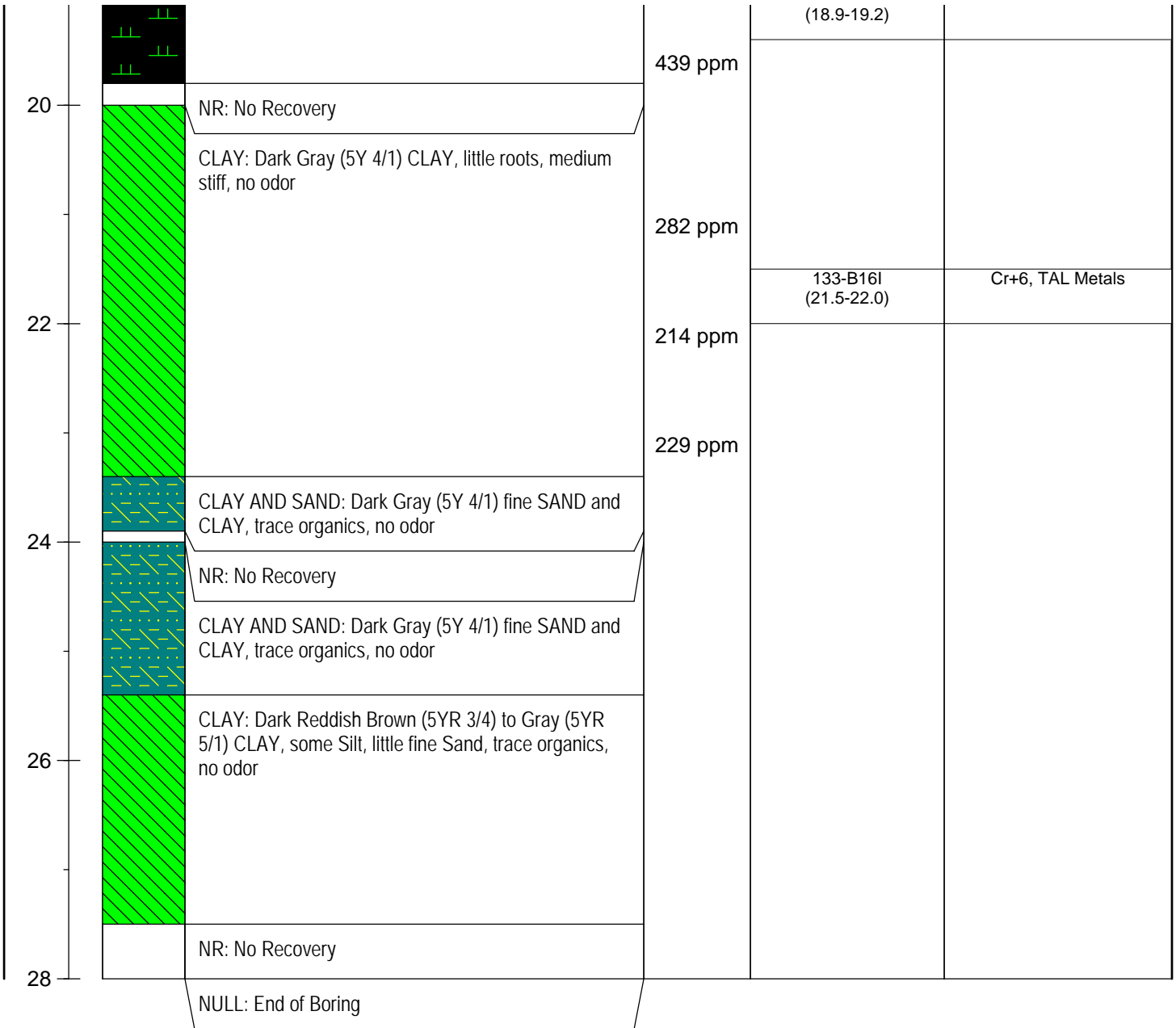
	Client: PPG Industries		BORING ID: <b>133-B16</b>		
	Site: Site 133				
Start Date: 1/24/2007	Project: <b>Site Investigation</b>		Page: 2 of 3		
	Coordinates: X-610876.7      Y-682229.3		Depth of Boring: 28.00		
End Date: 1/24/2007	Elevation: 11.53		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe 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			
		NR: No Recovery	12.5 ppm		
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

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

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	Client: PPG Industries	BORING ID: <b>133-B16</b>			
	Site: Site 133				
Start Date: 1/24/2007	Project: <b>Site Investigation</b>	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



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

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30 Knightsbridge Road, Piscataway, NJ 08854  
732.564.3200 office telephone

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610864.5
<b>Date Started Drilling:</b> 7/15/2014 8:15:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682220.3
<b>Date Finished Drilling:</b> 7/15/2014 10:10:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 11 ft
<b>Logged By:</b> RK	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b>
<b>Physical Location:</b> 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							

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

**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:** 11.55

**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	
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		Very Dark Gray (Gley 3N/0) ASH, some Silt, little very fine to coarse Sand and crushed Fill Material (coal, glass, ceramics), wet, very loose, wet. No odor.
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	4		Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor.
9				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:** 11.55

**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		
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			
					1			
					0.0	1		Gray (10YR 6/1) ASH, some fine crushed Fill (coal, ceramics), very loose, wet. No odor.
						1		
					0.0	1		No Recovery
						1		
				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		
				1				
				1				
			N/A	1				
				1				

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**Site:** Site 133

**Site Location:** Jersey City, NJ

**Geologist:** P. Kelly, M. Merdinger

**Drilling Company:** Eichelbergers

**Driller:** N. Moyer

**Drilling Date:** 1/19/2007

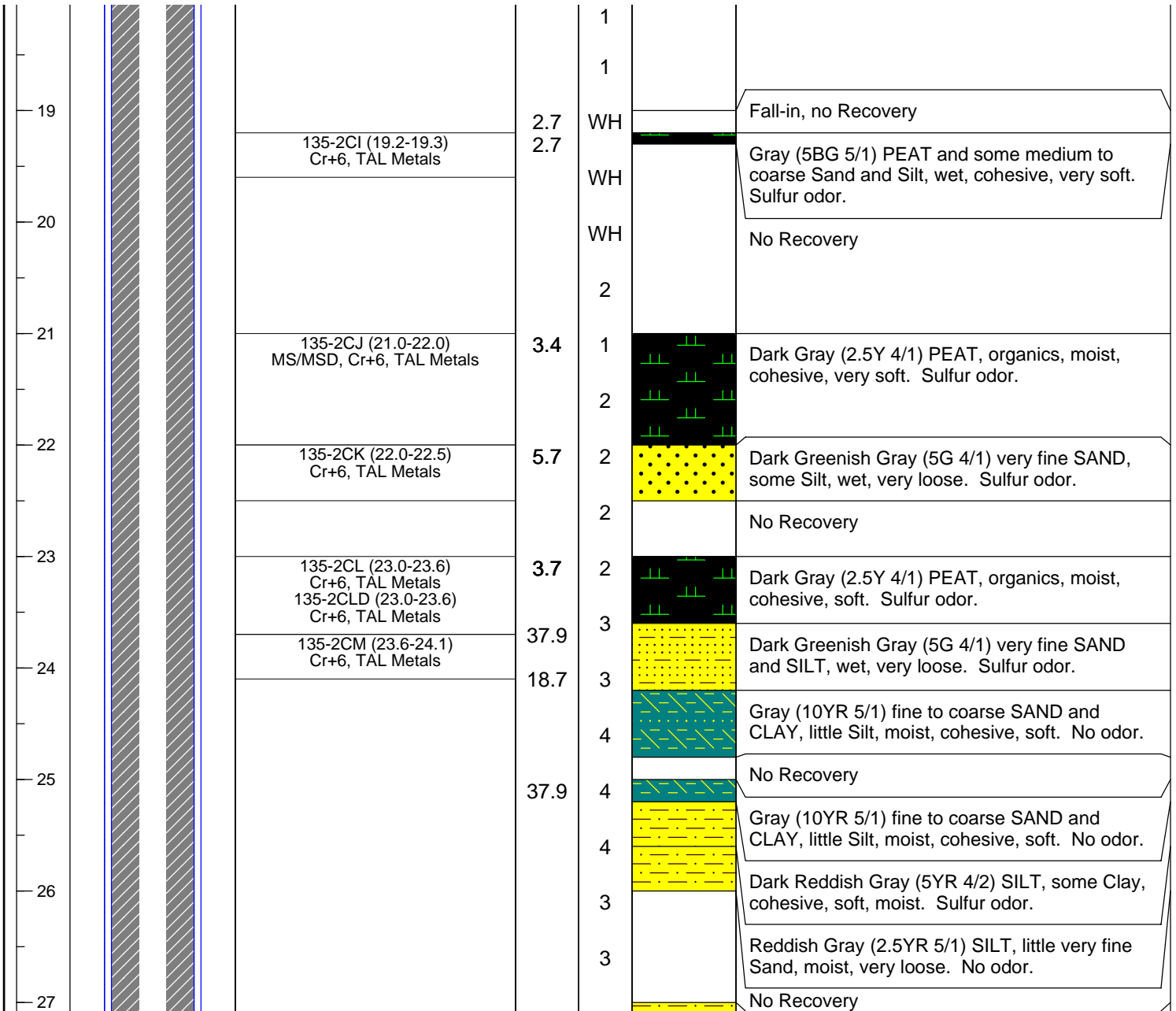
**Well Completion Date:** 4/10/2007

**Elevation:** 11.55

**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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**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

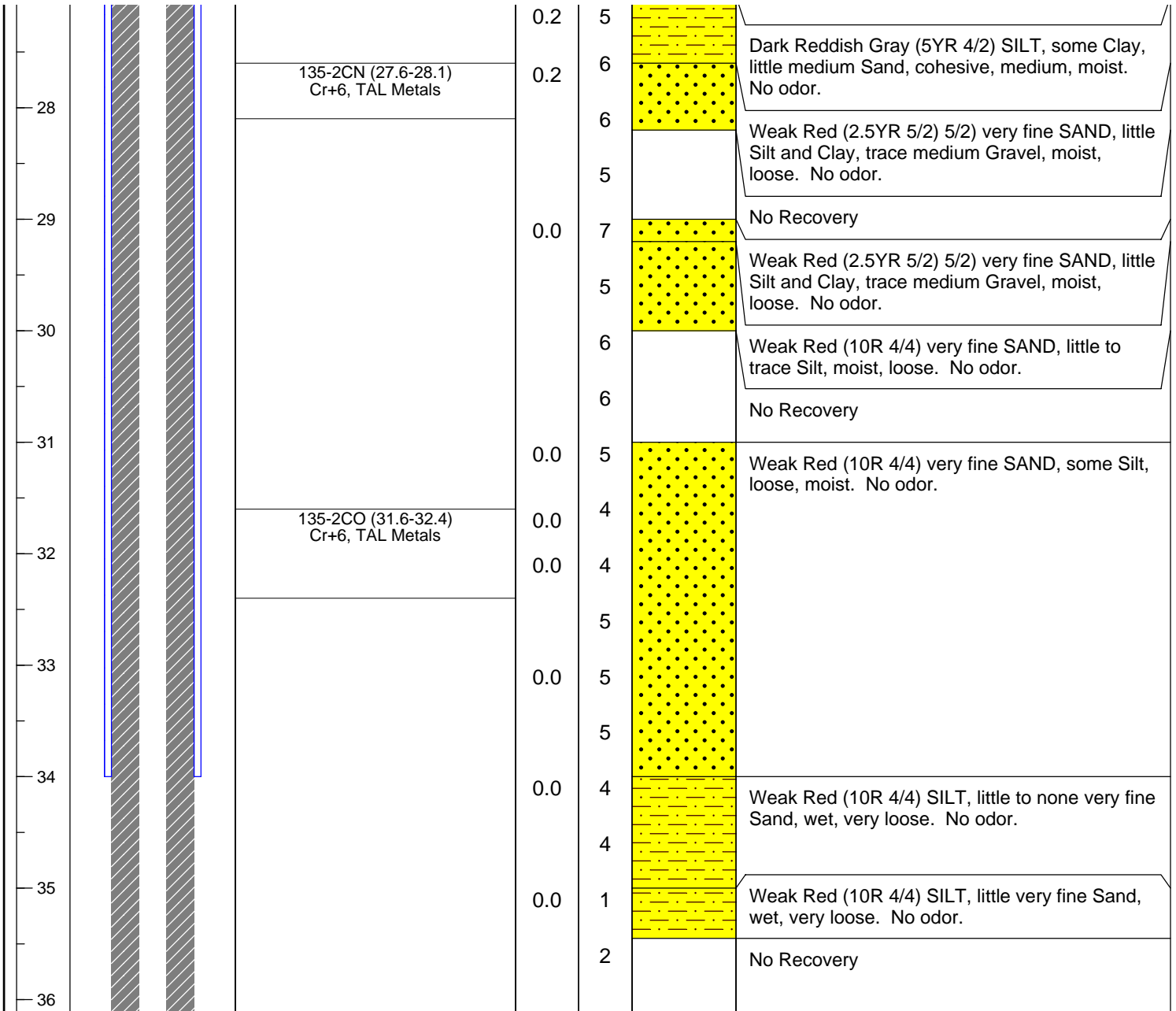
**Elevation:** 11.55

**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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**Site:** Site 133

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**Geologist:** P. Kelly, M. Merdinger

**Drilling Company:** Eichelbergers

**Driller:** N. Moyer

**Drilling Date:** 1/19/2007

**Well Completion Date:** 4/10/2007

**Elevation:** 11.55

**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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**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:** 11.55

**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				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				4		

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**Driller:** N. Moyer

**Drilling Date:** 1/19/2007

**Well Completion Date:** 4/10/2007

**Elevation:** 11.55

**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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**Site:** Site 133

**Site Location:** Jersey City, NJ

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**Driller:** N. Moyer

**Drilling Date:** 1/19/2007

**Well Completion Date:** 4/10/2007

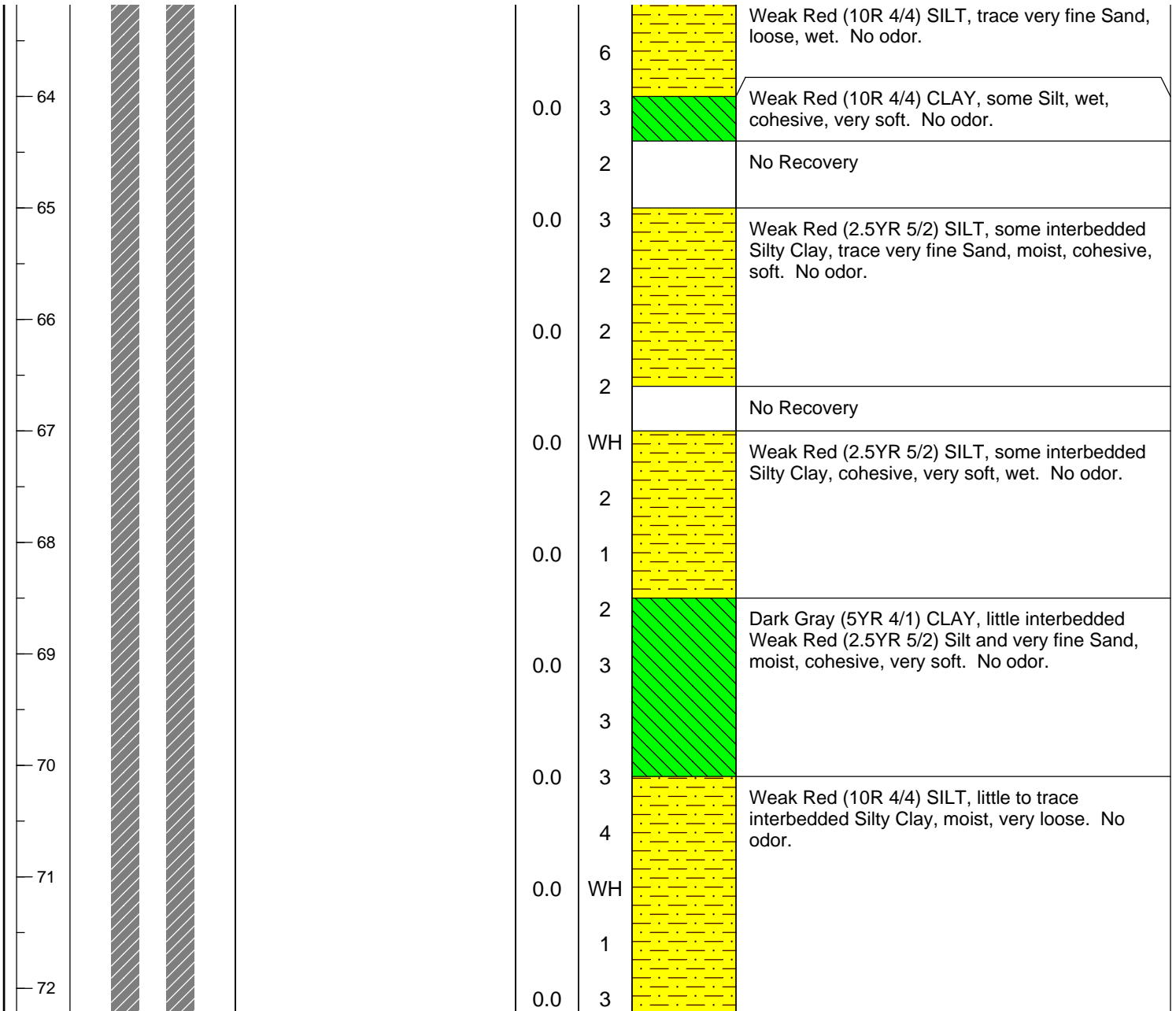
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**Drilling Method:** HSA/Mud Rotary

# 133-MW2C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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**Driller:** N. Moyer

**Drilling Date:** 1/19/2007

**Well Completion Date:** 4/10/2007

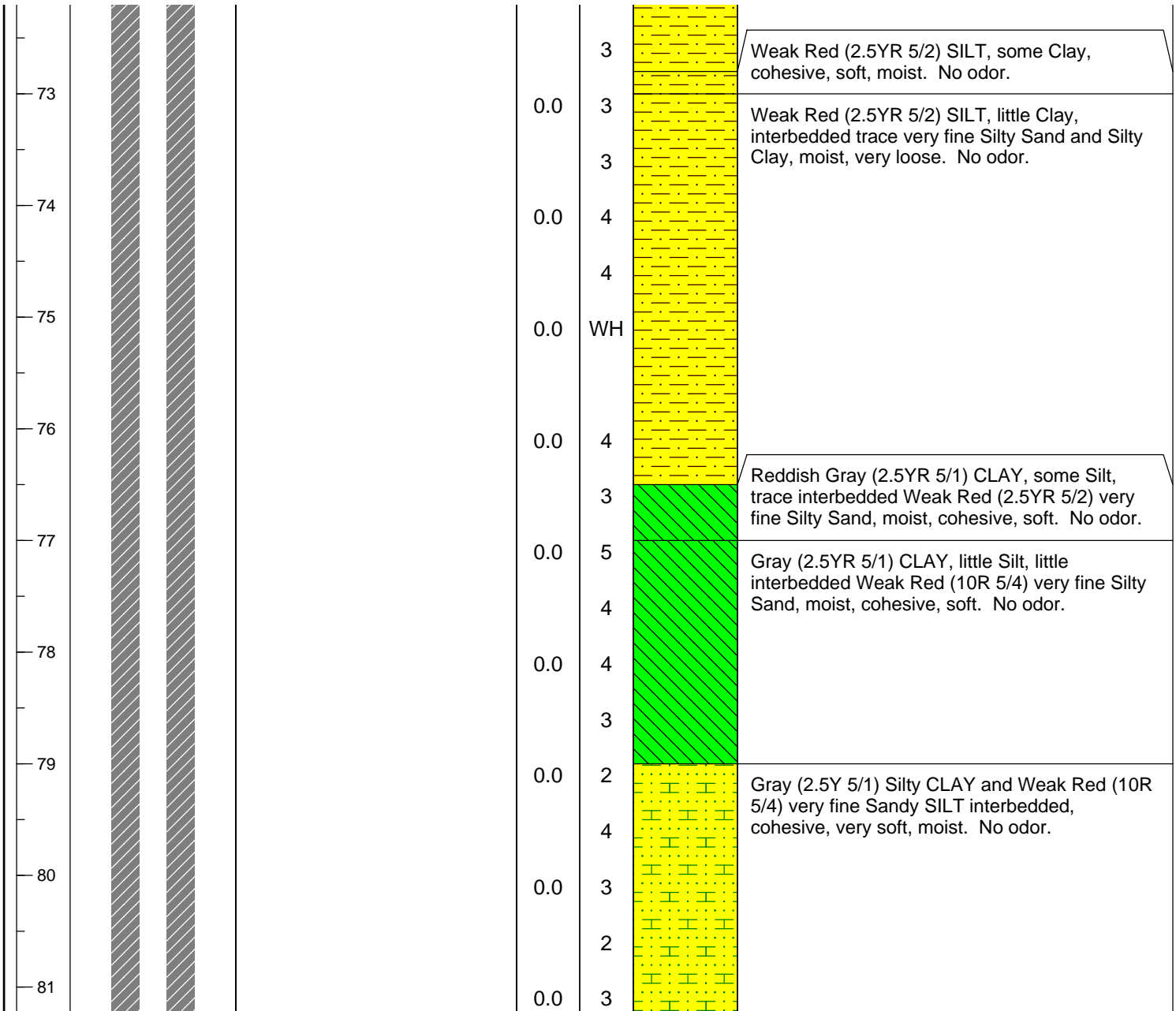
**Elevation:** 11.55

**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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**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

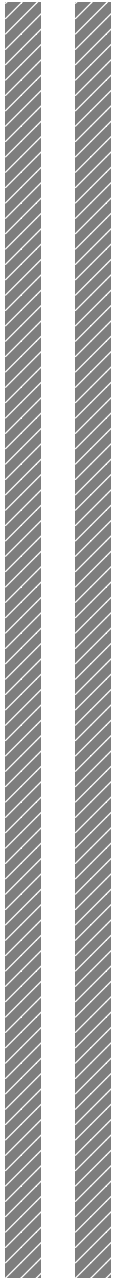
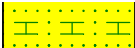













**Elevation:** 11.55

**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
------------	---------------------------	--	-----------	----------	-----------	------------------------

82				4		
			0.0	3		
				4		
			0.0	4		
				4		No Recovery
				4		
				3		
				3		
			0.0	6		Reddish Brown (2.5YR 5/3) SILT, trace Clay, loose, moist. No odor.
				4		
				4		No Recovery
				5		
			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.
				2		
			0.0	2		
				4		
			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.
				3		
				4		
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

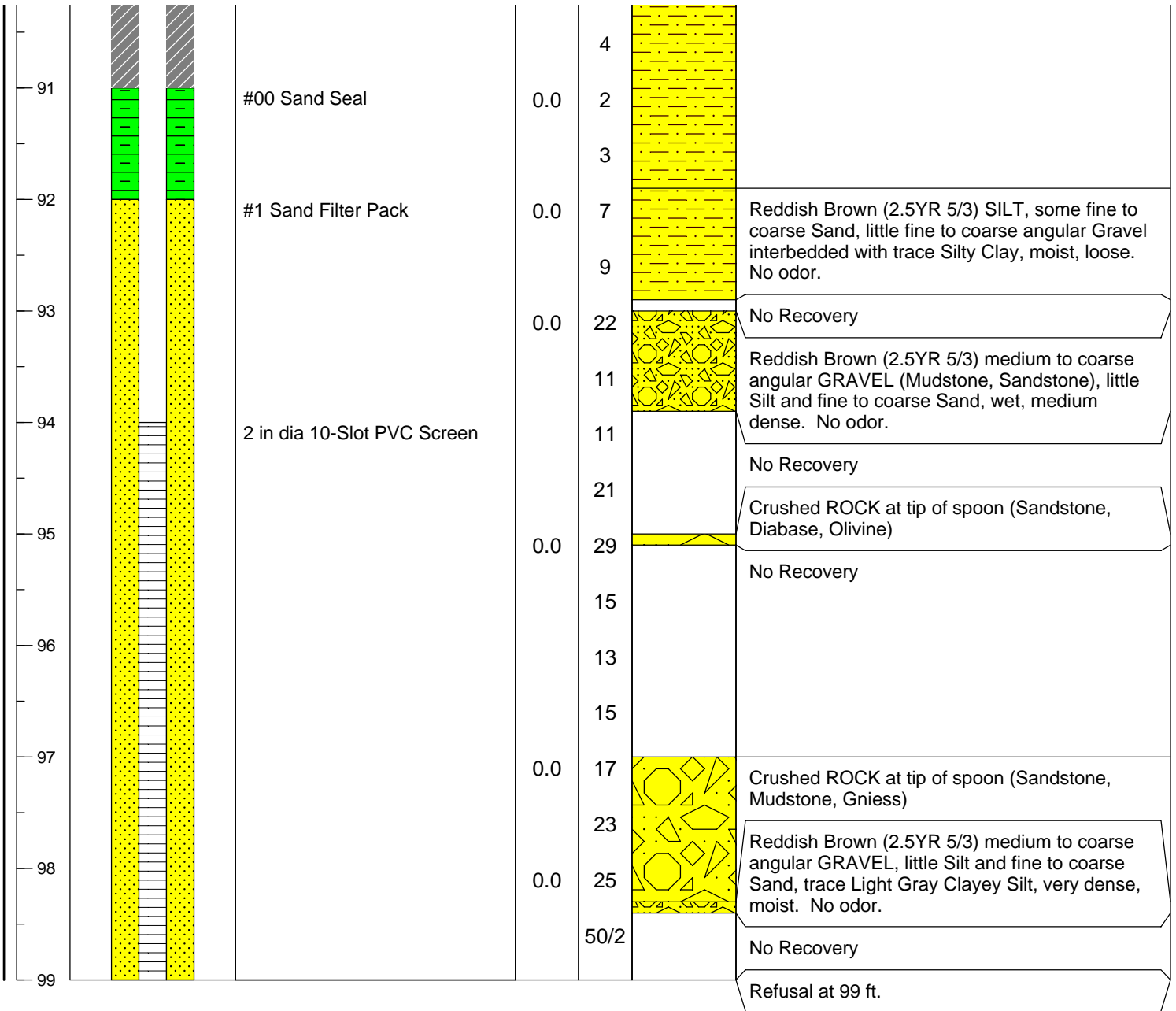
Elevation: 11.55

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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<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610745.081
<b>Date Started Drilling:</b> 4/3/2014 8:30:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682118.822
<b>Date Finished Drilling:</b> 4/3/2014 9:30:00 AM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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	133-P3C-S48A-8.5-9.0
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							133-P3C-S48A-12.2-12.7
13							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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610806.131
<b>Date Started Drilling:</b> 4/16/2014 8:55:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682151.882
<b>Date Finished Drilling:</b> 4/16/2014 9:55:00 AM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b>
<b>Physical Location:</b> 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, some fibers, little crushed concrete, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining.	133-P3C-T46A-1.0-1.5
2	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
3							
4							
5	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
6							
7		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
8							
9							133-P3C-T46A-9.0-9.5
10	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
11							
12		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
13							133-P3C-T46A-14.3-14.8
14	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
15		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.
16							
17		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.	
18							
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610785.465
<b>Date Started Drilling:</b> 4/15/2014 9:55:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682132.106
<b>Date Finished Drilling:</b> 4/15/2014 11:00:00 AM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610794.8
<b>Date Started Drilling:</b> 7/14/2014 1:00:00 PM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682147.4
<b>Date Finished Drilling:</b> 7/14/2014 2:00:00 PM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 6.5 ft
<b>Logged By:</b> RK	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> Smith Alley		

(Note bgs = below ground surface)

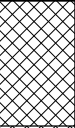
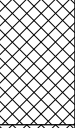
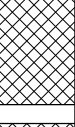
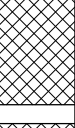
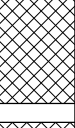
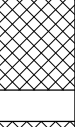

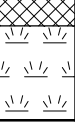




Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	moist	3	FILL		fine to medium SAND, some ash, trace concrete, trace gravel, trace glass, (7.5YR 4/3) brown, loose, moist, no odor, no staining.	133-P3C-SA-T47A-0.5-1.0
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
		0.0	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

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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610871.25
<b>Date Started Drilling:</b> 6/25/2013 7:45:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682225.6875
<b>Date Finished Drilling:</b> 6/25/2013 10:30:00 AM	<b>Core Size:</b> 3 in	<b>Boring Total Depth:</b> 16 ft
<b>Logged By:</b> AB	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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	
5		0.0	wet	NR FILL		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
6	1.7	0.0	moist	NR FILL		NO RECOVERY	
7		0.0	moist	NR FILL		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
8	1.5	0.0	moist	NR FILL		NO RECOVERY	
9		0.0	moist	NR FILL		fine silty SAND, little cinders, little clay, (5YR 4/2) dark reddish gray, non plastic, dense, moist.	133-P3C-U43A-10.5-11.0
10	1.2	0.0	wet	FILL		CINDERS, some ash, little sand, little gravel, (10YR 2/1) black, non plastic, medium dense, wet.	133-P3C-U43A-12.5-13.0
11		0.0	wet	NR		NO RECOVERY	
12	2	0.0	wet	FILL		CINDERS, some ash, (10YR 3/1) very dark gray, non plastic, loose, wet.	133-P3C-U43A-14.0-14.5
13		1.7	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
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.


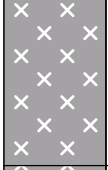
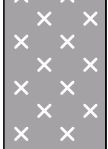

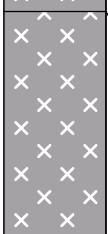
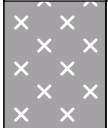
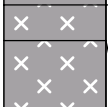
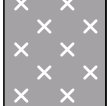
<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610853.448
<b>Date Started Drilling:</b> 4/15/2014 9:55:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682198.12
<b>Date Finished Drilling:</b> 4/15/2014 10:40:00 AM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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
7-8	5	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
9-10		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
11-12		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
13-14	5	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
15-16		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
16-17		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
17-18		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.	
19-20	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.



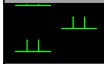
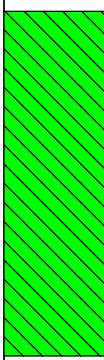
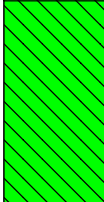
	Client: PPG Industries	BORING ID: <b>135-B4</b>			
	Site: Site 135				
Start Date: 12/12/2006	Project: <b>Site Investigation</b>	Page: 1 of 3			
	Coordinates: X-610811.3      Y-682149.6	Depth of Boring: 32.00			
End Date: 12/19/2006	Elevation: 11.76	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
		FILL: Black medium SAND, some fine to coarse Gravel, cut wire at 1.5 feet.	0.0 ppm	135-B4A (0.7-1.2)	Cr+6, TAL Metals
2		FILL: Black coarse SAND and SILT, some fine Gravel, little coarse Gravel, coal pieces.	0.0 ppm	135-B4B(2.0-2.6) 135-B4BD(2.1-2.6)	Cr+6, TAL Metals Cr+6, TAL Metals
		FILL: Gray-Brown SILT and ASH, some fine to coarse Gravel, little ceramic pieces.	0.0 ppm		
4		FILL: Dark Reddish Gray (2.5YR N3/0) SILT and fine angular Gravel, Fill materials (coal, shells, ash, concrete), dark green staining, wet. No odor.	0.0 ppm	135-B4C (4.0-4.5)	Cr+6, TAL Metals
		NR: No Recovery	5.0 ppm		
6					
8		FILL: Dark Yellowish-Brown (10YR 4/4) SILT, dry, medium dense. No odor.	0.1 ppm	135-B4D (8.5-9.0)	Cr+6, TAL Metals
		FILL: Very dark Grayish Brown (10YR 3/2) SILT, organics, topsoil, dry, loose. No odor.			
10		FILL: Grayish Brown (10 YR 5/2) ASH, COAL, SILT and Fill materials (ceramics, stone, brick), wet. No odor.			

**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.


<b>ENSR   AECOM</b>		Client: PPG Industries	BORING ID: <b>135-B4</b>		
		Site: Site 135			
Start Date: 12/12/2006	Project: <b>Site Investigation</b>		Page: 2 of 3		
		Coordinates: X-610811.3      Y-682149.6	Depth of Boring: 32.00		
End Date: 12/19/2006	Elevation: 11.76		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters




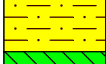
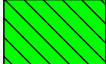


		NR: No Recovery			
12		FILL: Grayish Brown (10 YR 5/2) ASH, COAL, SILT and Fill materials (ceramics, stone, brick), wet. No odor.	0.0 ppm		
				135-B4E (12.5-13.0)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/4) SILT, some Clay, organics, trace medium Gravel, moist. No odor.	0.1 ppm		
14		PEAT: PEAT (Meadow Mat), Organics, moist, medium stiff. Sulfur odor.	8.4 ppm	135-B4F(13.9-14.4) 135-B4FD(13.9-14.4)	Cr+6, TAL Metals Cr+6, TAL Metals
		NR: No Recovery			
16		CLAY: Very dark Gray (5Y 3/1) organic CLAY, little organic, moist, medium stiff. Sulfur odor.	29.7 ppm		
			25.0 ppm		
18			44.8 ppm	135-B4G (18.0-18.5)	Cr+6, TAL Metals
		NR: No Recovery			
20		CLAY: Very dark Gray (5Y 3/1) organic CLAY, little organic, moist, medium stiff. Sulfur odor.	36.3 ppm		
			13.6 ppm		

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

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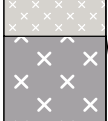
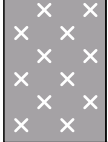

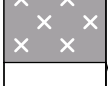
	Client: PPG Industries	BORING ID: <b>135-B4</b>			
	Site: Site 135				
Start Date: 12/12/2006	Project: <b>Site Investigation</b>	Page: 3 of 3			
	Coordinates: X-610811.3      Y-682149.6	Depth of Boring: 32.00			
End Date: 12/19/2006	Elevation: 11.76	Geologist: P. Kelly, M. Merdinger			
	Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

22		CLAY: Very Dark Gray (5Y 3/1) sandy CLAY, moist, medium stiff. Sulfur odor.	57.7 ppm	135-B4H (22.3-22.8)	Cr+6, TAL Metals
		NR: No Recovery			
24		CLAY: Dark Gray (2.5Y 4/1) silty CLAY, trace very fine Sand, moist, loose.	8.5 ppm		
		SILT: Dark Grayish Brown (2.5Y 4/2) SILT, some Clay, moist, medium stiff. No odor.	1.2 ppm		
26			60.3 ppm		
		CLAY: Dark Gray (5Y 4/1) sandy CLAY, sand lenses, wet, soft. No odor.			
		NR: No Recovery			
28		CLAY AND SAND: Grayish Brown (10YR 5/2) CLAY and SAND, interbedded, wet, loose. No odor.	0.2 ppm		
			0.0 ppm		
30		SAND: Weak Red (10YR 4/4) fine to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
			0.0 ppm		
32		NR: No Recovery			
		NULL: End of Boring at 32 ft.			

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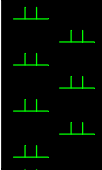
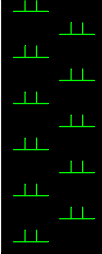
	Client: PPG Industries	BORING ID: <b>135-B5</b>			
	Site: Site 135				
Start Date: 3/27/2007	Project: <b>Site Investigation</b>	Page: 1 of 2			
	Coordinates: X-610782.1      Y-682089.2	Depth of Boring: 20.70			
End Date: 3/27/2007	Elevation: 15.45	Geologist: B. Ergezen			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, no staining.			
		FILL: Yellowish Brown (10YR 5/6) coarse to fine SAND, little medium to fine angular Gravel, loose, moist. No odor.	3.0	135-B5A (0.7-1.1)	Cr+6, TAL Metals
				135-B5B (1.1-1.8)	Cr+6, TAL Metals
2		CONCRETE: White pulverized CONCRETE (Concrete Slab), dense, dry. No odor.	0.0	135-B5C (1.8-2.7)	Cr+6, TAL Metals
		FILL: Dark Brown (7.5YR 3/3) SILT, little Clay, little coal, trace medium to fine Gravel, loose, moist. No odor.	0.0		
		NR: No Recovery			
4					
		FILL: Very Dark Gray (10YR 3/1) coarse to fine SAND, little coarse to fine Gravel, trace plastic, coal, brick, loose, moist. No odor.	0.0	135-B5D (4.7-5.8)	MS/MSD, Cr+6, TAL Metals
6		NR: No Recovery	0.0		
8					
		FILL: Black (10YR 2/1) SILT and fine SAND, little medium to fine angular Gravel, loose, moist. No odor.	N/A	135-B5E (8.7-9.2)	Cr+6, TAL Metals
		FILL: Gray (5YR 5/1) coarse to fine SAND, little medium to fine Gravel, little Silt, loose, wet. No odor.		135-B5F (9.2-9.7)	Cr+6, TAL Metals
10		NR: No Recovery			

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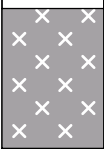
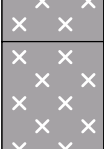
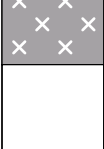
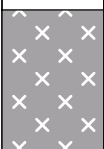
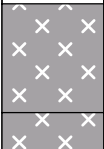


	Client: PPG Industries		BORING ID: <b>135-B5</b>		
	Site: Site 135				
Start Date: 3/27/2007	Project: <b>Site Investigation</b>		Page: 2 of 2		
	Coordinates: X-610782.1      Y-682089.2		Depth of Boring: 20.70		
End Date: 3/27/2007	Elevation: 15.45		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Gray (5YR 5/1) coarse to fine SAND, little medium to fine Gravel, little Silt, loose, wet. No odor.	0.0	135-B5G (12.7-14.1)	Cr+6, TAL Metals
			0.0	135-B5GD (12.7-14.1)	Cr+6, TAL Metals
14		FILL: Dark Brown (7.5YR 3/3) Clayey SILT, little medium to fine Gravel, trace coal, loose, moist. Slight sulfur odor.	0.0	135-B5H (14.1-14.7)	Cr+6, TAL Metals
			0.0		
16	NR: No Recovery				
		PEAT: Very Dark Gray Brown (2.5YR 3/2) organic CLAY, some Peat, little Silt, trace medium to fine sub-angular Gravel, cohesive, soft, moist. Sulfur odor.	0.0	135-B5I (16.7-18.1)	Cr+6, TAL Metals
0.0					
18		PEAT: Black (5Y 2.5/1) CLAY, trace Silt, shells, cohesive, soft, moist. No odor.	0.0		
			0.0		
20	NR: No Recovery				
	NULL: End of boring at 20.7 ft.				

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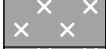
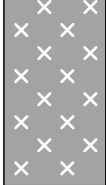
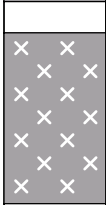

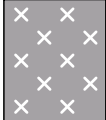
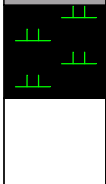
	Client: PPG Industries		BORING ID: <b>135-B6</b>		
	Site: Site 135				
Start Date: 3/26/2007	Project: <b>Site Investigation</b>		Page: 1 of 2		
	Coordinates: X-610927.7      Y-682220.9		Depth of Boring: 16.00		
End Date: 3/26/2007	Elevation: 10.24		Geologist: B. Ergezen		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete slab, no staining.			
		CONCRETE: Second Concrete slab, no staining.			
		NR: No Recovery	0.0		
		FILL: Dark Grayish Brown (10YR 4/2) and Black (5YR 2.5/1) coarse to fine SAND, little Silt, trace fine Gravel, trace Brick, loose, dry. No odor.			
2		NR: No Recovery	816.0	135-B6B (2.0-3.4)	Cr+6, TAL Metals
		FILL: Coal ASH, trace glass, plastic, loose, moist. No odor.	799.0		
		FILL: Very Dark Grayish Brown (10YR 3/2) and Black (10YR 2/1) coarse to fine SAND, little Silt, trace medium to fine angular Gravel, trace plastic and organics, loose, wet. Hydrocarbon odor.	403.0		
4		NR: No Recovery	425.0		
		FILL: Black (10YR 2/1) coarse to fine SAND, little Silt, trace medium to fine angular Gravel, trace plastic and organics, Coal ash, loose, wet. Hydrocarbon odor.			
		NR: No Recovery			
6		FILL: Black (10YR 2/1) coarse to fine SAND, little Silt, trace coarse to fine angular Gravel, loose, wet. Slight hydrocarbon odor.	7.2		
		FILL: Black (10YR 2/1) SILT, some medium to fine Sand, trace Clay, loose, moist. No odor.	6.4	135-B6C (6.7-7.3)	Cr+6, TAL Metals
		NR: No Recovery			
8		FILL: Black (10YR 2/1) SILT, some medium to fine	0.1		

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	Client: PPG Industries	BORING ID: <b>135-B6</b>			
	Site: Site 135				
Start Date: 3/26/2007	Project: <b>Site Investigation</b>	Page: 2 of 2			
	Coordinates: X-610927.7      Y-682220.9	Depth of Boring: 16.00			
End Date: 3/26/2007	Elevation: 10.24	Geologist: B. Ergezen			
	Drill Subcontractor: Terra Probe Incorporated	Driller: Heath Kneller			
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

		Sand, trace Clay, loose, moist. No odor.			
		FILL: Very Dark Gray (10YR 3/1) medium to fine GRAVEL and SAND, some Coal Ash, trace Organics, loose, moist. No odor.	0.1		
10		NR: No Recovery	0.0	135-B6D (10.0-11.1)	Cr+6, TAL Metals
		FILL: Very Dark Gray (10YR 3/1) medium to fine GRAVEL and SAND, some Coal Ash, trace wood and coal, loose, wet. No odor.	0.0		
		NR: No Recovery			
12		FILL: Very Dark Gray (2.5YR 3/1) Clayey SILT, trace very fine Sand, trace medium to fine angular Gravel, cohesive, soft, moist. No odor.	0.3	135-B6E (12.0-12.8)	MS/MSD, Cr+6, TAL Metals
		PEAT: Very Dark Gray (2.5YR 3/1) PEAT, some organics, trace very fine to fine Sand, cohesive, soft, moist. Sulfur odor.	3.5	135-B6F (12.8-13.4)	Cr+6, TAL Metals
		NR: No Recovery			
14		PEAT: Very Dark Grayish Brown (10YR 3/2) PEAT, some organics, trace fine Sand, cohesive, soft, moist. Strong sulfur odor.	66.5		
			325.0	135-B6G (15.2-15.8)	Cr+6, TAL Metals
16		NR: No Recovery			
		NULL: End of boring at 16 ft.			

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<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610771.951
<b>Date Started Drilling:</b> 4/15/2014 8:35:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682105.268
<b>Date Finished Drilling:</b> 4/15/2014 9:45:00 AM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610771.463
<b>Date Started Drilling:</b> 8/17/2016 9:00:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682104.958
<b>Date Finished Drilling:</b> 8/17/2016	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> SP	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 10.5 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 slab	
1	4	0.0	dry	FILL		medium to coarse SAND, some ash, trace coal, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	
2			dry to moist	FILL		fine to medium sandy SILT, little cinders, (7.5YR 3/4) dark brown, dense, dry to moist, no odor, no staining.	
3			dry	FILL		CINDERS, some fill debris, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	
4				NR			NO RECOVERY
5	4.5	0.0	moist	FILL		CINDERS, little fill debris, trace coal, (5YR 4/1) dark gray, loose, moist, no odor, no staining.	
6			moist	FILL		medium to coarse SAND, trace ash, coal and fill debris, (7.5YR 4/1) dark gray, dense, moist, no odor, no staining.	
7			moist to wet	FILL		CINDERS, (5YR 6/1) gray, loose, moist to wet, no odor, no staining, water at 7.0 feet.	
8				NR			NO RECOVERY
9	5	0.0	moist	FILL		CINDERS, trace coal and ash, (5YR 4/1) dark gray, loose, moist, no odor, no staining.	
10			dry	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.	
11			dry	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.	135-P3C-T48AR-12.0-12.5
12			dry	SM		Organic SILT, 10% organic fibers, 90% organic silt, (5YR 6/1) gray, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
13							
14							
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) UND/MM confirmed to be 1 ft thick 3) No COPR or GGM present in any interval of this boring.

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



<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610824.821
<b>Date Started Drilling:</b> 4/7/2015 8:50:00 AM	<b>Rig Type:</b> Geoprobe	<b>Coordinates (NJSPNAD83) y:</b> 682146.175
<b>Date Finished Drilling:</b> 4/7/2015 8:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> SS/ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> NA
<b>Physical Location:</b> Site 135 - U46A		

(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	5	0.0	slightly moist	3	FILL		fine organic SAND, some roots, little fine gravel, trace debris, (7.5YR 3/4) dark brown, loose, slightly moist, no odor, no staining.	
		0.0	dry	3	FILL			
		0.0	wet	3	FILL			
5-6	5	4.8	wet	3	FILL		ASH, little fine to medium sand, little fine gravel, trace coal,, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	135-P3C-U46A-6.0-6.5
		0.0	moist	3	FILL			
		0.0	moist	3	FILL			
10-12	5	0.0	moist	3	FILL		fine to medium silty SAND, little fine gravel, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining.	135-P3C-U46A-10.0-10.5
		0.0	wet	3	FILL			
		0.0	wet	3	FILL			
15-17	5	0.0	wet	3	FILL		ASH, some silt, little roots, (7.5YR 2.5/2) very dark brown, soft, wet, no odor, no staining.	135-P3C-U46A-15.0-15.5
		0.0	moist	7	PT			
		0.0	moist	9	OL			
17-18	5	0.0	moist	9	OL		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
18-19	5	0.0	moist	9	OL		UND organic SILT, (60% organic silt, 30% organic fibers), (7.5YR 3/3) dark brown, low plasticity soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19-20	5	0.0	moist	9	OL			

PPG - 2012-09 RA PPG\_LOGS\_A\_GDT - 4/30/15 16:49

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

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610803.249
<b>Date Started Drilling:</b> 3/19/2014 9:15:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682095.886
<b>Date Finished Drilling:</b> 3/19/2014 10:15:00 AM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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	dry	FILL		crushed CONCRETE, (9.5/2.5Y /1) white, loose, dry, fine to medium SAND, little silt, trace coal, fine to coarse gravel, (5YR 4/4) reddish brown, loose to dense, dry to slightly moist, no odor, no staining.	135-P3C-U48A-1.0-1.5	
		0.0	dry to slight moist	FILL			135-P3C-U48A-3.0-3.5	
					NR		NO RECOVERY	
5-10	4.5	0.0	moist	FILL		fine to medium silty SAND, fine to medium gravel, trace coal, (7.5YR 4/3) brown, loose to dense, moist, no odor, no staining.	135-P3C-U48A-5.0-5.5	
							135-P3C-U48A-7.0-7.5	
		0.0	moist	FILL		CINDERS, little ash, wood fragments, trace coal, fine to medium gravel, (5YR 2.5/1) black, loose, moist, no odor, no staining.	135-P3C-U48A-9.0-9.5	
					NR			
11-14	3.5	0.0	moist to wet	FILL		NO RECOVERY ASH, some cinders, fine to medium sand, little fine gravel, trace wood fragments, ceramics, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining.	135-P3C-U48A-11.0-11.5	
							135-P3C-U48A-13.0-13.5	
					NR		NO RECOVERY	
		15-19	4	0.0	moist to wet	FILL		ASH, some cinders, fine to medium sand, little fine gravel, trace wood fragments, ceramics, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining.
0.0	moist slightly moist			PT		fine to medium silty SAND, fine to medium gravel, trace coal, (7.5YR 4/3) brown, loose to dense, moist, no odor, no staining.	135-P3C-U48A-16.2-16.7	
0.0	moist			OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.		
					NR	UNDorg SILT, 95% organic fibers, 5% organic silt, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.		
20					NO RECOVERY			

**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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610906.53
<b>Date Started Drilling:</b> 4/15/2014 8:50:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682238.96
<b>Date Finished Drilling:</b> 4/15/2014 9:40:00 AM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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	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
10							
11		0.0	dry to moist	FILL		fine to medium silty SAND, little coarse gravel, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining.	
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	4	0.0	dry	FILL		fine to medium silty SAND, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	
14							135-P3C-V42A-13.5-14.0
15	5			NR		NO RECOVERY	
16		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
17		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
18	5						
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610887.078
<b>Date Started Drilling:</b> 3/19/2014 11:05:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682203.879
<b>Date Finished Drilling:</b> 3/19/2014 12:00:00 PM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> SS	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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		FILL		CONCRETE	
2		0.0	dry	FILL		fine to medium SAND, little coarse gravel, (7.5YR 4/4) brown, loose, dry, no odor, no staining.	135-P3C-V43A-1.0-1.5
3							135-P3C-V43A-3.0-3.5
5	5	32.0	dry	FILL		medium SAND, some cinders, little coal, trace glass fragments, (10YR 3/3) dark brown, loose, dry, slight petroleum odor, no staining.	135-P3C-V43A-5.0-5.5
6		203.0	moist	FILL		CINDERS, with oil-like material, trace wood fragments, (7.5YR 2.5/2) very dark brown, loose, moist, strong petroleum odor, sheen.	135-P3C-V43A-7.0-7.5
8		723.0	moist to wet	FILL		CINDERS, some ash, little coarse gravel, (7.5YR 2.5/2) very dark brown, loose, moist to wet, strong petroleum odor, sheen.	135-P3C-V43A-9.0-9.5
10		97.0	wet	FILL		CINDERS, and tar-like material, with oil-like material, some ash, some coal, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor.	135-P3C-V43A-11.0-11.5
13	5						135-P3C-V43A-13.0-13.5
14		0.0	moist	FILL		fine to medium silty SAND, little coal, trace coarse gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.	
15		12.0	moist	FILL		CINDERS, some sand, little coarse gravel, trace coal, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining.	135-P3C-V43A-15.0-15.5
17	5	0.0	moist	FILL		fine to medium silty SAND, little organic fibers, little ash, trace cinders, (7.5YR 2.5/2) very dark brown, soft, moist, no odor, no staining.	135-P3C-V43A-17.0-17.5
18		0.0	moist	SM		UNDno SILT, trace fine sand, (10YR 5/1) gray, low plasticity, very soft, moist, no odor, no staining. Soils consistent with UNDno.	135-P3C-V43A-17.5-18.0
19		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.	
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610884.47
<b>Date Started Drilling:</b> 3/19/2014 1:30:00 PM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682192.517
<b>Date Finished Drilling:</b> 3/19/2014 2:35:00 PM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 25 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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	
2		0.0	dry	FILL		fine to medium silty SAND, little cinders, (5YR 4/3) reddish brown, medium stiff, dry, no odor, no staining.	135-P3C-V44A-1.0-1.5
3							
4		0.0	dry	FILL		CINDERS, (5YR 2.5/1) black, dry, no odor, no staining.	135-P3C-V44A-3.0-3.5
5	5	0.0	dry	FILL		medium to coarse gravelly SAND, (7.5YR 3/2) dark brown, dry, moderate chemical odor, no staining.	135-P3C-V44A-5.0-5.5
6		9.1	dry	FILL		CINDERS, (5YR 2.5/1) black, dry, slight chemical odor, no staining.	135-P3C-V44A-7.0-7.5
7		127	dry	FILL		CINDERS, and ash, some coarse gravel, (5YR 4/1) dark gray, loose, dry, strong petroleum odor, no staining.	
8		465	moist	FILL		CINDERS, (5YR 2.5/1) black, loose, moist, strong petroleum odor, no staining.	135-P3C-V44A-9.0-9.5
9	5						
10		27.2	wet	FILL		CINDERS, (5YR 2.5/1) black, loose, wet, moderate petroleum odor, sheen.	135-P3C-V44A-11.0-11.5
11							
12							
13		25.1	dry	FILL		fine to medium silty SAND, little cinders, (7.5YR 2.5/1) black, dry, slight petroleum odor, no staining.	135-P3C-V44A-13.0-13.5
14	5						
15		12.1	wet	FILL		silty SAND, with cinders, (5YR 2.5/1) black, loose, wet, no odor, no staining.	135-P3C-V44A-15.0-15.5
16							
17		0.0	moist	FILL		fine to medium silty SAND, little cinders, trace coarse gravel, (5YR 3/4) dark reddish brown, moist, no odor, no staining.	135-P3C-V44A-17.0-17.5
18		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.	135-P3C-V44A-17.5-18.0
19	5						
20		0.0		PT		CLAY, 80% organic fibers, 20% organic silt. Soils consistent with MM.	
21							
22		0.0	moist	SM		SILT, (7.5YR 5/1) gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	
23							

PPG - PPG LOGS.GDT - 6/24/14 12:58

**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

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610884.47
<b>Date Started Drilling:</b> 3/19/2014 1:30:00 PM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682192.517
<b>Date Finished Drilling:</b> 3/19/2014 2:35:00 PM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 25 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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
—							
25							

PPG - PPG\_LOGS\_GDT - 6/24/14 12:58

**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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610850.626
<b>Date Started Drilling:</b> 3/19/2014 10:50:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682129.363
<b>Date Finished Drilling:</b> 3/19/2014 12:00:00 PM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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 - 1.0	4	0.0		CONCRETE		CONCRETE	
1.0 - 2.0		0.0	dry to slight moist	FILL		crushed CONCRETE, (9.5/2.5Y /1) white.	135-P3C-V46A-1.0-1.5
2.0 - 3.0		0.0		FILL		fine to medium SAND, some silt, little fine to coarse gravel, trace coal, (5YR 4/3) reddish brown, loose to dense, dry to slightly moist, no odor, no staining.	135-P3C-V46A-3.0-3.5
3.0 - 4.0				NR		NO RECOVERY	
4.0 - 5.0		0.0	dry to slight moist	FILL		fine to medium SAND, some silt, little fine to coarse gravel, trace coal, (5YR 4/3) reddish brown, loose to dense, dry to slightly moist, no odor, no staining.	135-P3C-V46A-5.0-5.5
5.0 - 6.0		0.0		FILL		CINDERS, some coal, little ash, (7.5YR 2.5/1) black, loose, dry to slightly moist, no odor, no staining.	
6.0 - 7.0		0.0	dry to slight moist	FILL		fine silty SAND, with ash, trace wood fragments, (10YR 6/2) light brownish gray, loose, moist, no odor, no staining.	135-P3C-V46A-7.0-7.5
7.0 - 8.0							
8.0 - 9.0		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-P3C-V46A-9.0-9.5
9.0 - 10.0		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	
10.0 - 11.0		0.0	moist	FILL		fine to medium silty SAND, little fine gravel, (5YR 6/2) pinkish gray, loose to dense, moist, no odor, no staining.	135-P3C-V46A-11.0-11.5
11.0 - 12.0							
12.0 - 13.0							135-P3C-V46A-13.0-13.5
13.0 - 14.0				NR		NO RECOVERY	
14.0 - 15.0		0.0	moist	FILL		ASH, with cinders, some coal, fine to medium gravel, little wood fragments, (7.5YR 4/1) dark gray, moist, no odor, no staining.	135-P3C-V46A-15.0-15.5
15.0 - 16.0							
16.0 - 17.0		0.0	moist	FILL		fine to medium silty SAND, little fine gravel, (5YR 6/2) pinkish gray, loose to dense, moist, no odor, no staining.	135-P3C-V46A-17.0-17.5
17.0 - 18.0							135-P3C-V46A-17.5-18.0
18.0 - 19.0		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	135-P3C-V46A-18.0-18.5
19.0 - 20.0				NR		NO RECOVERY	

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 encountered in any interval of this boring.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610919.699
<b>Date Started Drilling:</b> 3/19/2014 9:31:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682198.733
<b>Date Finished Drilling:</b> 3/19/2014 10:25:00 AM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> SS	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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 - 1.0		0.0		CONCRETE		CONCRETE		
1.0 - 2.0	5	0.0	dry	FILL		fine to medium SAND, little coarse gravel, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	135-P3C-W43A-1.0-1.5	
2.0 - 3.0		0.0	dry	FILL			135-P3C-W43A-3.0-3.5	
3.0 - 5.0		0.0	dry	FILL			CINDERS, some sand, little wood fragments, little coarse gravel, (7.5YR 2.5/1) black, loose, dry, no odor, no staining.	135-P3C-W43A-5.0-5.5
5.0 - 7.0	5	0.0	dry	FILL		fine to medium SAND, some cinders, little ash, little coarse gravel, little wood fragments, trace concrete, (7.5YR 4/1) dark gray, loose, dry, no odor.	135-P3C-W43A-7.0-7.5	
7.0 - 9.0		0.0	dry	FILL			135-P3C-W43A-9.0-9.5	
9.0 - 11.0		6.4	moist	FILL			CINDERS, little ash, little coal, trace glass fragments, (5YR 4/1) dark gray, loose, moist, slight petroleum odor, no staining.	135-P3C-W43A-11.0-11.5
11.0 - 13.0	3.5	0.0	moist to wet	FILL		fine SAND, little cinders, trace glass fragments, (7.5YR 3/2) dark brown, loose, moist to wet, no odor, no staining.	135-P3C-W43A-13.0-13.5	
13.0 - 14.0				NR			NO RECOVERY	
14.0 - 15.0		0.0	moist	FILL				CINDERS, with sand, little coarse gravel, trace wood fragments, (2.5Y 3/1) very dark gray, loose, moist, no odor, no staining.
15.0 - 17.0	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	135-P3C-W43A-16.5-17.0		
17.0 - 18.0	0.0	moist	OL					135-P3C-W43A-17.0-17.5
18.0 - 20.0								

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.



<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Geoprobe	<b>Coordinates (NJSPNAD83) x:</b> 610893.679
<b>Date Started Drilling:</b> 3/19/2014 12:15:00 PM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682145.679
<b>Date Finished Drilling:</b> 3/19/2014 1:20:00 PM	<b>Core Size:</b> 2 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Chris Martell	<b>Depth to Water:</b> NA
<b>Physical Location:</b> 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 to slight moist	FILL		fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	135-P3C-W45A-0.7-1.2	
2							135-P3C-W45A-2.0-2.5	
3							135-P3C-W45A-4.0-4.5	
4								
5	4	0.0	dry to slight moist	FILL		fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	135-P3C-W45A-6.0-6.5	
6		0.0	slightly moist	FILL				fine to medium SAND, some crushed brick, some cinders, (7.5YR 2.5/1) black, loose, slightly moist, no odor, no staining.
7		0.0	slightly moist	FILL			fine to medium silty SAND, with ash, little wood fragments, silt, (7.5YR 3/1) very dark gray, non plastic, dense, moist, no odor, no staining.	
8								
9							NR	NO RECOVERY
10	5	0.0	moist	FILL		fine to medium silty SAND, with ash, little wood fragments, silt, (7.5YR 3/1) very dark gray, non plastic, dense, moist, no odor, no staining.	135-P3C-W45A-10.0-10.5	
11		0.0	dry to slight moist	FILL			fine to medium SAND, some fine to medium gravel, silt, trace coal, (5YR 5/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	
12						135-P3C-W45A-12.0-12.5		
13		0.0	moist	FILL		ASH, some fine sand, little fine to coarse gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-P3C-W45A-14.0-14.5	
14	4	0.0	moist	FILL		ASH, some fine sand, little fine to coarse gravel, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	135-P3C-W45A-15.7-16.2	
15		0.0	moist	OL				UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.
16		0.0	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.		
17				NR			NO RECOVERY	
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60314351	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610962.6
<b>Date Started Drilling:</b> 9/9/2015 8:30:00 AM	<b>Rig Type:</b> Geoprobe 7822DT	<b>Coordinates (NJSPNAD83) y:</b> 682212.8
<b>Date Finished Drilling:</b> 9/9/2015 9:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 10.0
<b>Physical Location:</b> 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							
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-10.5-11.0
13							
14							
15				NR		NO RECOVERY.	135-X42A-12.5-13.0
16							
17	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-14.5-15.0
18		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-16.3-16.8
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60314351	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610991.6
<b>Date Started Drilling:</b> 9/9/2015 8:20:00 AM	<b>Rig Type:</b> Geoprobe 7822DT	<b>Coordinates (NJSPNAD83) y:</b> 682207
<b>Date Finished Drilling:</b> 9/9/2015 11:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> MI	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 10.0
<b>Physical Location:</b> 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610791.3
<b>Date Started Drilling:</b> 9/26/2016 9:30:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682115.7
<b>Date Finished Drilling:</b> 9/26/2016 10:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.5
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 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					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	wet	FILL					
14				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-T47AR2-13.5-14.0
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.

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

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610775.8
<b>Date Started Drilling:</b> 9/27/2016 8:55:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682082.6
<b>Date Finished Drilling:</b> 9/27/2016 9:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 14.1 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	4		dry	FILL		fine to coarse SAND, some fine to medium gravel, little concrete, (7.5YR 6/3) light brown, dry, no odor, no staining.	ASM-T49AR-0.5-1.0
2			dry	FILL		fine SAND, little fill debris, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-T49AR-1.5-2.0
3							
4					FILL		NO RECOVERY
5	5	0.0	dry	FILL		fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	
6			moist	FILL		CINDERS and ASH, (5Y 3/1) very dark gray, loose, moist, no odor, no staining.	ASM-T49AR-5.5-6.0
7			moist	FILL		ASH, some cinders, little fine sand, (5YR 3/3) dark reddish brown, loose, moist, no odor, no staining.	
8			wet	FILL		ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no staining, water at 9.0 feet.	ASM-T49AR-7.5-8.0
9							
10	5	0.0	wet	FILL		fine silty SAND, trace ash, (5Y 4/1) dark gray, medium dense, wet, no odor, no staining.	ASM-T49AR-9.5-10.0
11						ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no staining.	
12			wet	FILL		fine silty SAND, little fine gravel, trace ash, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-T49AR-11.5-12.0
13							
14			dry	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.	ASM-T49AR-12.5-13.0
15		moist	OL		Organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/3) brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	ASM-T49AR-13.0-13.5	

**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) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610827.6
<b>Date Started Drilling:</b> 8/15/2016 11:00:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682145.4
<b>Date Finished Drilling:</b> 8/15/2016 12:00:00 PM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.1 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 floor slab		
2			dry to moist	FILL		fine to medium SAND, some fine to coarse gravel, (5YR 5/3) reddish brown, medium dense, dry to moist, no odor, no staining.	ASM-U46A-1.0-1.5	
3								ASM-U46A-3.0-3.5
4				NR			NO RECOVERY	
5	3.5	0.0	dry to moist	FILL		fine to medium SAND, some ash, little fine gravel, (7.5YR 5/2) brown, medium dense, dry to moist, no odor, no staining.	ASM-U46A-5.0-5.5	
6							ASM-U46A-6.0-6.5	
8			saturated	FILL		fine to coarse SAND, some ash, little wood, (5YR 4/1) dark gray, medium dense, saturated, no odor, no staining, water at 8.0 feet.	ASM-U46A-8.0-8.5	
9				NR			NO RECOVERY	
10	4.5	0.0	saturated	FILL		fine to coarse SAND, some fine to medium gravel, trace ash, (5YR 6/1) gray, medium dense, saturated, no odor, no staining.	ASM-U46A-10.0-10.5	
11			saturated	FILL		fine to medium SAND, little fine to medium gravel, trace ash, (5YR 6/4) light reddish brown, medium dense, saturated, no odor, no staining.	ASM-U46A-12.0-12.5	
14			saturated	FILL		ASH, some fine sand, little fill debris, (2.5Y 5/2) grayish brown, medium dense, saturated, no odor, no staining.	ASM-U46A-14.0-14.5	
15				NR			NO RECOVERY	
16	5	0.0	saturated	FILL		CINDERS, little ash, (5YR 6/1) gray, loose, saturated, no odor, no staining.	ASM-U46A-16.0-16.5	
17								
18			saturated	FILL		fine to medium silty SAND, little fine to medium gravel, trace wood and organics, (5YR 5/3) reddish brown, medium dense, saturated, no odor, no staining.	ASM-U46A-18.0-18.5	
19								ASM-U46A-18.5-19.0
20			dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/2) dark reddish brown, dry, moderate organic odor, no staining. Soils consistent with MM.	ASM-U46A-19.0-19.5	

**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) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610812.1
<b>Date Started Drilling:</b> 8/11/2016 11:30:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682118.5
<b>Date Finished Drilling:</b> 8/11/2016 12:40:00 PM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> HBB	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.5
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	4.5	0.0		CONCRETE		Concrete floor slab	
				CONCRETE		Concrete and brick fill debris	
			wet	FILL		medium to coarse SAND, trace fine to medium gravel, (7.5YR 4/3) brown, loose, wet, no odor, no staining.	ASM-U47A-2.5-3.0
			wet	FILL		fine to coarse GRAVEL, little fine to coarse sand, trace fill debris, (7.5YR 3/4) dark brown, loose, wet, no odor, no staining.	ASM-U47A-4.0-4.5
			moist	FILL		SILT, (2.5Y 6/3) light yellowish brown, medium dense, moist, no odor, no staining.	
5-10	4	0.0	wet	FILL		fine silty SAND, little fine to medium gravel, (5YR 4/3) reddish brown, medium dense, no odor, no staining. NO RECOVERY	ASM-U47A-6.0-6.5
			saturated	FILL		CINDERS, some ash, (5Y 5/1) gray, loose, saturated, no odor, no staining, water at 8.5 feet.	ASM-U47A-8.0-8.5
				NR		NO RECOVERY	
			saturated	FILL		CINDERS, trace ash and fill debris, (5Y 5/1) gray, loose, saturated, no odor, no staining.	ASM-U47A-10.0-10.5
10-15	4.5	0.0		NR		NO RECOVERY	ASM-U47A-12.0-12.5
				NR		NO RECOVERY	ASM-U47A-14.0-14.5
			saturated	FILL		CINDERS, trace fill debris, (5Y 5/1) gray, loose, saturated, no odor, no staining.	ASM-U47A-16.0-16.5
			saturated	FILL		fine silty SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.	ASM-U47A-16.5-17.0
15-20	3.5	0.0	dry	PT		PEAT (degraded vegetated material), 90% organic fibers 10% organic silt, (5YR 3/3) dark reddish brown, dry, slight organic odor, no staining. Soils consistent with MM.	ASM-U47A-17.0-17.5
				NR		NO RECOVERY	

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**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.



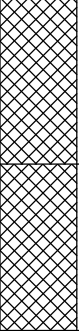
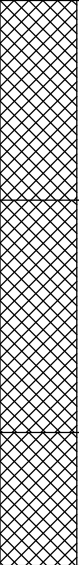



<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610789.1
<b>Date Started Drilling:</b> 9/27/2016 8:00:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682076.6
<b>Date Finished Drilling:</b> 9/27/2016 8:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 14.1 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	5	0.0	dry	FILL		fine to coarse SAND, little fine to medium gravel, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining.	ASM-U49AR-0.7-1.2
2			CONCRETE		Concrete slab		
3			dry	FILL		fine to medium SAND, little cinders, trace fine gravel, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-U49AR-2.0-2.5
4							ASM-U49AR-4.0-4.5
5	5	0.0	wet	FILL		fine to medium SAND, some ash, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	
6			moist	FILL		ASH and CINDERS, (2.5Y 3/1) very dark gray, loose, moist, no odor, no staining.	ASM-U49AR-6.0-6.5
7							ASM-U49AR-8.0-8.5
8			wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no staining, water at 9.0 feet.	
9	5	0.0	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-U49AR-10.0-10.5
10							
11			wet	FILL		fine silty SAND, little fine gravel, trace metal debris, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining.	ASM-U49AR-12.0-12.5
12			dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, firm, dry, moderate organic odor, no staining. Soils consistent with MM.	ASM-U49AR-12.5-13.0
13			moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/3) brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	ASM-U49AR-13.0-13.5
14	wet	ML		SILT, (7.5YR 4/3) brown, soft, wet, no odor, no staining. Soils consistent with UNDno.			
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610770.6
<b>Date Started Drilling:</b> 11/4/2016 10:00:00 AM	<b>Rig Type:</b> Geoprobe	<b>Coordinates (NJSPNAD83) y:</b> 682104.7
<b>Date Finished Drilling:</b> 11/4/2016 9:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 4.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-3	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.	
			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.	
5-8	5	58	wet	FILL		ASH, (5Y 5/1) gray, loose, wet, slight fuel oil-like odor and staining.	
			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
10-14	4.5	2.0					ASM-V41AR-10.0-10.5
			wet	FILL		ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-V41AR-12.0-12.5
							ASM-V41AR-13.0-13.5
			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.
15				NR		NO RECOVERY	

**Notes:**  
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 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610908.7
<b>Date Started Drilling:</b> 9/27/2016 9:45:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682227
<b>Date Finished Drilling:</b> 9/27/2016 11:00:00 AM	<b>Core Size:</b> 2.0 in	<b>Boring Total Depth:</b> 18 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 14.4 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		CONCRETE		Concrete floor slab	
				NR		VOID SPACE	
2	4	0.0	dry	FILL		fine to coarse GRAVEL and concrete, (5Y 5/1) gray, loose, dry, no odor, no staining.	ASM-V42AR2-2.0-2.5
			dry	FILL			ASM-V42AR2-4.0-4.5
5	4	0.3	dry	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
			dry	FILL			ASM-V42AR2-8.0-8.5
7	4	0.3	dry	FILL		CINDERS and ASH, (5Y 2.5/2) black, loose, dry, no odor, no staining.	ASM-V42AR2-10.0-10.5
			wet	FILL			ASM-V42AR2-12.0-12.5
10	4	85.5	wet	FILL		fine silty SAND, little fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet, moderate fuel oil-like odor, product staining.	ASM-V42AR2-14.0-14.5
			wet	FILL			ASM-V42AR2-15.0-15.5
13	4	0.0	wet	FILL		fine silty SAND, little fill debris, trace fine gravel, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining.	ASM-V42AR2-15.5-16.0
			dry	PT			
18							

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 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610866.1
<b>Date Started Drilling:</b> 8/18/2016 7:35:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682158.7
<b>Date Finished Drilling:</b> 8/18/2016 9:00:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.3 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 floor slab		
2			dry	FILL		fine to medium SAND, some fine gravel, trace cinders, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-V45A-1.0-1.5	
3								ASM-V45A-3.0-3.5
4					NR		NO RECOVERY	
5	5	0.0	moist	FILL		fine to coarse SAND, some cinders, little ash, (2.5Y 4/2) dark grayish brown, medium dense, moist, no odor, no staining.	ASM-V45A-5.0-5.5	
7			dry	FILL		ASH, little fill debris, trace coal, (2.5Y 4/1) dark gray, loose, dry, no odor, no staining.	ASM-V45A-7.0-7.5	
8			wet	FILL		fine to coarse SAND, some ash, little fill debris, (2.5Y 4/2) dark grayish brown, medium dense, wet, no odor, no staining, water at 8.0 feet.	ASM-V45A-9.0-9.5	
10								
11	5	0.0	saturated	FILL		fine to coarse SAND, some fill debris, trace ash, (2.5Y 4/1) dark gray, medium dense, saturated, no odor, no staining.		
12			wet	FILL		fine silty SAND, little fine gravel and fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-V45A-11.0-11.5	
13								ASM-V45A-13.0-13.5
14			wet	FILL		ASH, some fine to medium sand, little fill debris, (5Y 5/1) gray, loose, wet, no odor, no staining.		
15	5	5.2	wet	FILL		fine to coarse gravelly SAND, little ash, trace fill debris, (5Y 4/1) dark gray, medium dense, wet, no odor, no staining.	ASM-V45A-15.0-15.5	
17			wet	FILL		fine silty SAND, little fine gravel, trace fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-V45A-17.0-17.5 ASM-V45A-17.5-18.0	
18			slightly moist	OL		Organic SILT, 75% organic silt, 25% organic fibers, (7.5YR 4/2) brown, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	ASM-V45A-18.0-18.5	
19								
20								

**Notes:**  
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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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610839
<b>Date Started Drilling:</b> 8/12/2016 10:40:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682105
<b>Date Finished Drilling:</b> 8/15/2016	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> HBB	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.5
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.4 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	4.5		moist	FILL		fine to coarse SAND, little fine to coarse gravel, (7.5YR 6/4) light brown, loose, moist, no odor, no staining.	ASM-V47A-0.6-1.1	
2			moist	FILL			fine silty SAND, little fine to medium gravel, trace ash, (7.5YR 5/3) brown, medium dense, moist, no odor, no staining.	ASM-V47A-2.0-2.5
3			moist	FILL		SILT, trace fine sand and fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.		
4				NR		NO RECOVERY		
5	4	0.0	moist to wet	FILL		SILT, trace fine sand and fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	ASM-V47A-6.0-6.5	
6			wet	FILL			ASH, little cinders, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining, water at 7.5 feet.	
7				NR		NO RECOVERY		
8	5	0.0	saturated	FILL		ASH, some fine to medium sand, trace fill debris, (5YR 5/1) gray, loose, saturated, no odor, no staining.	ASM-V47A-10.0-10.5	
9			saturated	FILL			ASH, little fine to medium gravel, trace fill debris, (5YR 5/1) gray, loose, saturated, no odor, no staining.	ASM-V47A-12.0-12.5
10	4	0.0					ASM-V47A-14.0-14.5	
11								ASM-V47A-16.0-16.5
12			saturated	FILL			fine to medium silty SAND, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.	ASM-V47A-17.0-17.5
13								
14			dry	PT		PEAT (degraded vegetated material), 75% organic fibers 25% organic silt, (2.5YR 2.5/3) dark reddish brown, dry, moderate organic odor, no staining. Soils consistent with MM.	ASM-V47A-17.5-18.0	
15				NR		NO RECOVERY		
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  
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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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610825.6
<b>Date Started Drilling:</b> 8/11/2016 10:15:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682078.2
<b>Date Finished Drilling:</b> 8/11/2016 11:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> HBB	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.5
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.2 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	4.5		moist	FILL		medium to coarse SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining. SILT, little fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	ASM-V48A-0.5-1.0	
2							ASM-V48A-2.0-2.5	
3							ASM-V48A-4.0-4.5	
4							ASM-V48A-4.0-4.5	
5	3.5	0.0		NR		NO RECOVERY		
6			wet	FILL		SILT, little fine to medium gravel, trace ash and fill debris, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	ASM-V48A-6.0-6.5	
8			saturated	FILL		CINDERS, little medium to fine sand, trace ash and fill debris, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining, water at 7.5 feet.	ASM-V48A-8.0-8.5	
9				NR		NO RECOVERY		
10	4.5	0.0	saturated	FILL		CINDERS, little fine sand and silt, trace wood, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	ASM-V48A-10.0-10.5	
11						ASM-V48A-12.0-12.5		
12					ASM-V48A-14.0-14.5			
14					ASM-V48A-14.0-14.5			
15	5	6.5	saturated	FILL		CINDERS, little fine sand and silt, trace wood, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	ASM-V48A-15.5-16.0	
16			saturated	FILL			fine silty SAND, trace fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.	ASM-V48A-16.0-16.5
17			dry	PT				PEAT (degraded vegetated material), 80% organic fibers 20% organic silt, (5YR 3/3) dark reddish brown, dry, slight organic odor, no staining. Soils consistent with MM.
18			saturated	OL				Organic SILT, 90% organic silt 10% organic fibers, (5Y 5/1) gray, medium stiff, saturated, slight organic odor, no staining. Soils consistent with UNDno.
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610812
<b>Date Started Drilling:</b> 8/12/2016 7:45:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682051.5
<b>Date Finished Drilling:</b> 8/12/2016 10:40:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> HBB	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.1 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	4.5		moist	FILL		SILT, little fine to medium gravel, trace coal, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	ASM-V49A-0.8-1.3	
2							ASM-V49A-2.0-2.5	
3			moist	FILL		fine to medium SAND, little fine to medium gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining.		
4			moist	FILL		SILT, trace fine sand, fine to medium gravel and brick, (7.5YR 4/2) brown, loose, moist, no odor, no staining.	ASM-V49A-4.0-4.5	
5				NR		NO RECOVERY		
6	3.5	0.0	moist	FILL		SILT, trace fine sand and fine to medium gravel, (7.5YR 4/2) brown, loose, moist, no odor, no staining.	ASM-V49A-6.0-6.5	
7			moist to wet	FILL		ASH, some cinders, trace fill debris, (7.5YR 5/2) brown, medium dense, moist to wet, no odor, no staining.		
8						FILL		CINDERS, trace ash and coal, (5YR 5/1) gray, medium dense, wet, no odor, no staining, water at 8.0 feet.
9				NR		NO RECOVERY		
10	4.5	0.0	saturated	FILL		CINDERS, trace ash and fill debris, (5YR 5/1) gray, medium dense, saturated, no odor, no staining.	ASM-V49A-10.0-10.5	
11								
12								ASM-V49A-12.0-12.5
13								
14			saturated	FILL		fine to medium SAND, some silt, (5Y 5/1) gray, soft, saturated, no odor, no staining.	ASM-V49A-14.0-14.5	
15				NR		NO RECOVERY		
16	3.5	0.0	saturated	FILL		SILT, trace fine to medium gravel, (7.5YR 4/2) brown, very soft, saturated, no odor, no staining.	ASM-V49A-15.0-15.5	
17			saturated	OL		Organic SILT, 90% organic silt 20% organic fibers, (7.5YR 4/2) brown, medium stiff, saturated, no odor, no staining. Soils consistent with UNDorg.	ASM-V49A-15.5-16.0	
18								
19				NR		NO RECOVERY		
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610906.4
<b>Date Started Drilling:</b> 8/16/2016 8:15:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682171.8
<b>Date Finished Drilling:</b> 8/16/2016 9:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.0 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		CONCRETE		Concrete floor slab		
2			dry to moist	FILL		fine to medium SAND, some fine gravel, trace fill debris, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining.	ASM-W44A-1.0-1.5	
3								ASM-W44A-3.0-3.5
4				NR			NO RECOVERY	
5	3.5	0.0	dry	FILL		CINDERS, (5YR 2.5/1) black, loose, dry, no odor, no staining.	ASM-W44A-5.0-5.5	
6			moist	FILL		fine to medium SAND, some ash, trace glass, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	ASM-W44A-6.0-6.5	
7			moist to saturated	FILL		ASH, some fine sand, trace fine gravel, (5YR 6/1) gray, moist to saturated, no odor, no staining, water at 8.0 feet.		
8				NR			NO RECOVERY	ASM-W44A-8.0-8.5
10	4.5	0.0	saturated	FILL		ASH, some fine sand, (5YR 5/1) gray, loose, saturated, no odor, no staining.	ASM-W44A-10.0-10.5	
12			saturated	FILL		fine to medium SAND, little ash, trace fill debris, (7.5YR 4/4) brown, medium dense, saturated, no odor, no staining.	ASM-W44A-12.0-12.5	
13			saturated	FILL		ASH, some fine to medium sand, little cinders, trace fill debris, (5Y 4/1) dark gray, loose, saturated, no odor, no staining.	ASM-W44A-14.0-14.5	
14				NR			NO RECOVERY	
15	5	0.0	saturated	FILL		fine gravelly SAND, little fill debris, (5YR 5/1) gray, medium dense, saturated, no odor, no staining.	ASM-W44A-16.0-16.5	
17			saturated	FILL		fine silty SAND, little fine gravel, trace ash, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining.	ASM-W44A-17.5-18.0	
18			wet	OL		Organic SILT, 80% organic silt 20% organic fibers, (7.5YR 5/4) brown, soft, wet, moderate organic odor, no staining. Soils consistent with UNDorg.	ASM-W44A-18.0-18.5	
19								
20								

**Notes:**  
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 MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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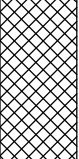


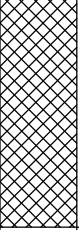

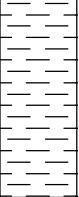
<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Dierct Push	<b>Coordinates (NJSPNAD83) x:</b> 610875.6
<b>Date Started Drilling:</b> 8/15/2016 9:30:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682126.1
<b>Date Finished Drilling:</b> 8/15/2016 10:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.1 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	4.5	0.0	dry	FILL		fine to medium SAND, little fine to coarse gravel, trace silt, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining.	ASM-W46A-0.5-1.0	
2			dry	FILL		CINDERS, trace ash and fine sand, (5Y 2.5/1) black, loose, dry, no odor, no staining.	ASM-W46A-2.0-2.5	
3			moist	FILL		fine to medium SAND, little silt, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.		
4								ASM-W46A-4.0-4.5
5				NR		NO RECOVERY		
6	3.5	0.0	dry	FILL		CINDERS, trace ash, (5YR 2.5/1) black, loose, dry, no odor, no staining.		
7			moist	FILL		ASH, some cinders, little fill debris, (5YR 5/1) gray, loose, moist, no odor, no staining.	ASM-W46A-6.0-6.5	
8			wet to saturated	FILL		ASH, little fine to coarse sand, trace fill debris, (5YR 5/1) gray, wet to saturated, no odor, no staining, water at 8.0 feet.	ASM-W46A-8.0-8.5	
9				NR		NO RECOVERY		
10	5	0.0	saturated	FILL		ASH, some fine to medium sand, trace wood, (5YR 4/1) dark gray, saturated, no odor, no staining.	ASM-W46A-10.0-10.5	
11			saturated	FILL		fine to medium SAND, trace wood and ash, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining.	ASM-W46A-12.0-12.5	
12								
13								
14								
15								
16	5	0.0	saturated	FILL		ASH, little fine sand, trace fill debris, (5YR 5/1) gray, loose, saturated, no odor, no staining.	ASM-W46A-14.0-14.5	
17								ASM-W46A-16.0-16.5
18			saturated	FILL		SILT, little fill debris, trace organics, (7.5YR 4/2) brown, soft, saturated, no odor, no staining.	ASM-W46A-17.5-18.0	
19							ASM-W46A-18.0-18.5	
20			moist	OL		Organic SILT, 80% organic silt 20% organic fibers, (7.5YR 5/3) brown, soft, moist, 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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610865.8
<b>Date Started Drilling:</b> 8/11/2016 8:50:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682091.5
<b>Date Finished Drilling:</b> 8/11/2016 10:10:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> HBB	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.0 ft NAVD88

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 floor slab.	
				CONCRETE		Concrete and brick fill debris.	
				NR		NO RECOVERY	
5-9	3.5	0.0		CONCRETE		Concrete and brick fill debris.	ASM-W47A-5.5-6.0
			moist to wet	FILL		ASH, some cinders, trace fill debris, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining.	ASM-W47A-6.0-6.5
			saturated	FILL		CINDERS, some fine to coarse sand, (5Y 5/1) gray, loose, saturated, no odor, no staining, water at 8.0 feet.	ASM-W47A-8.0-8.5
				NR		NO RECOVERY	
10-15	4.5	0.0	saturated	FILL		fine to medium SAND, little silt, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	ASM-W47A-10.0-10.5
			saturated	FILL		CINDERS, trace ash and fill debris, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	ASM-W47A-12.0-12.5
				NR		NO RECOVERY	
				NR		NO RECOVERY	
15-19	3.5	18.0	saturated	FILL		CINDERS, trace ash and fill debris, (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining.	ASM-W47A-15.0-15.5
			moist	OL		Organic SILT, 80% organic silt 20% organic fibers, (5Y 5/1) gray, medium stiff, moist, no odor, no staining. Soils consistent with UNDorg.	ASM-W47A-15.5-16.0
				NR		NO RECOVERY	
20							

**Notes:**  
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<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610852.3
<b>Date Started Drilling:</b> 8/19/2016 7:48:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682064.8
<b>Date Finished Drilling:</b> 8/19/2016 8:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> KW	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 8.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.0 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		CONCRETE		Concrete sidewalk and gravel sub-base.	
2				NR		VOID SPACE	
3			dry	FILL		fine to medium silty SAND, trace fill debris, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	ASM-W48A-2.0-2.5
4							ASM-W48A-4.0-4.5
5	5	0.0	dry to moist	FILL		ASH, little cinders, trace fill debris, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining.	ASM-W48A-6.0-6.5
6							
7			moist to saturated	FILL		ASH, some cinders, little fill debris, (5YR 6/1) gray, loose, moist to saturated, no odor, no staining, water at 8.0 feet.	ASM-W48A-8.0-8.5
8							
9							
10	5	0.0	saturated	FILL		ASH, some cinders, little fill debris, (5YR 6/1) gray, loose, saturated, no odor, no staining.	ASM-W48A-10.0-10.5
11							
12							
13							
14							ASM-W48A-14.0-14.5
15			saturated	FILL		fine sandy SILT, little fine gravel, trace organics, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining.	ASM-W48A-15.5-16.0
16	5	0.0	saturated	FILL		fine sandy SILT, little fine gravel, trace organics, (5YR 4/3) reddish brown, dense, saturated, no odor, no staining.	ASM-W48A-15.5-16.0
17			moist	PT		PEAT (degraded vegetated material), 60% Organic fibers 40% Organic silt, (5YR 3/3) dark reddish brown, very dense, moist, strong organic odor, no staining. Soils consistent with MM.	ASM-W48A-16.0-16.5
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> DIRECT PUSH	<b>Coordinates (NJSPNAD83) x:</b> 610833.1
<b>Date Started Drilling:</b> 9/28/2016 9:00:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682054.1
<b>Date Finished Drilling:</b> 9/28/2016 10:00:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 15 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 14.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	4	0.0		CONCRETE		Concrete floor slab	
			dry	FILL		fine to coarse SAND, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining.	ASM-W49AR-0.5-1.0
				CONCRETE		Concrete slab	
			dry	FILL		fine to medium SAND, little fine gravel, trace fill debris, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-W49AR-1.5-2.0
3-4				NR		NO RECOVERY	ASM-W49AR-3.5-4.0
5-9	5	0.0	dry	FILL		ASH, little fine to medium sand, trace glass, (5YR 4/2) dark reddish gray, loose, dry, no odor, no staining.	ASM-W49AR-5.5-6.0
							ASM-W49AR-7.5-8.0
			wet	FILL		ASH, some fine sand, (5Y 5/1) gray, loose, wet, no odor, no staining, water at 9.0 feet.	ASM-W49AR-9.5-10.0
10-14	5	0.0					ASM-W49AR-11.5-12.0
			wet	FILL		fine silty SAND, little coarse gravel, trace ash and fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-W49AR-13.0-13.5
			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-W49AR-13.5-14.0
15							

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<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610946.6
<b>Date Started Drilling:</b> 8/18/2016 9:05:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682185.2
<b>Date Finished Drilling:</b> 8/18/2016 12:00:00 PM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.1 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	4	0.0	dry	FILL		fine to medium SAND, some fine gravel, little cinders, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-X43A-1.0-1.5		
2									
3									
4			dry	FILL			CINDERS, some fine gravel, (5YR 2.5/1) black, loose, dry, no odor, no staining.		
5	5	0.0		NR		NO RECOVERY			
5			dry to moist	FILL		fine to coarse SAND, some fill debris, little fine to medium gravel, (2.5Y 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.	ASM-X43A-5.0-5.5		
6									
7									
8			moist to wet	FILL			ASH, some fine to medium sand, (5Y 5/1) gray, loose, moist to wet, no odor, no staining, water at 9.0 feet.	ASM-X43A-7.0-7.5	
9									
10									
11	5	0.0	wet	FILL		fine to coarse gravelly SAND, some ash, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.			
12			wet	FILL			fine to medium silty SAND, some ash, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	ASM-X43A-11.0-11.5	
13			wet	FILL			ASH, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-X43A-13.0-13.5	
14									
15	5	8.0	wet	FILL		fine silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	ASM-X43A-15.0-15.5		
16			dry	PT				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with MM.	ASM-X43A-15.5-16.0
17									
18	slightly moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, soft, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	ASM-X43A-16.0-16.5				
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.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> direct push	<b>Coordinates (NJSPNAD83) x:</b> 610933.1
<b>Date Started Drilling:</b> 8/17/2016 10:00:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682158.4
<b>Date Finished Drilling:</b> 8/17/2016 11:20:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 20 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.0 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 floor slab	
2			dry	FILL		fine to medium SAND, little fine gravel, trace coal, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.	ASM-X44A-1.0-1.5
3			dry	FILL		fine to medium SAND, little fine gravel, trace fill debris, (5YR 3/3) dark reddish brown, medium dense, dry, no odor, no staining.	ASM-X44A-3.0-3.5
4				CONCRETE		Concrete slab	
5				NR		NO RECOVERY	
6	3.5	0.0	dry	FILL		fine to medium SAND, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	ASM-X44A-5.0-5.5
7			moist	FILL		ASH, some fine to medium sand, little coal, (2.5Y 5/2) grayish brown, loose, moist, no odor, no staining.	ASM-X44A-6.0-6.5
8			wet	FILL		ASH, little fill debris, (5Y 5/1) gray, loose, wet, slight fuel oil-like odor, no staining, light sheen, water at 7.0 feet.	ASM-X44A-8.0-8.5
9				NR		NO RECOVERY	
10	4.5	0.0	wet	FILL		ASH, some fine to medium sand, little fill debris, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-X44A-10.0-10.5
11							
12							
13			moist	FILL		fine silty SAND, little fill debris, trace fine gravel, (5YR 5/3) reddish brown, medium dense, moist, no odor, no staining.	ASM-X44A-12.0-12.5
14			slightly moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg.	ASM-X44A-13.5-14.0
15			slightly moist	NR		NO RECOVERY	ASM-X44A-14.0-14.5
16	3.5	3.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (5YR 3/3) dark reddish brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
17							
18			slightly moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (7.5YR 4/2) brown, soft, slightly moist, no odor, no staining. Soils consistent with UNDorg.	
19				NR		NO RECOVERY	
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.

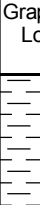
<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610919.5
<b>Date Started Drilling:</b> 8/17/2016 8:10:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682131.4
<b>Date Finished Drilling:</b> 8/17/2016 9:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 25 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID				
		0.0		CONCRETE		Concrete floor slab					
1	4.5		dry	FILL		fine to coarse SAND, some medium gravel, trace brick, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining.	ASM-X45A-0.7-1.2				
2			dry	FILL		fine to medium SAND, some fine to medium gravel, little asphalt, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	ASM-X45A-2.0-2.5				
3				CONCRETE		Concrete slab					
4			dry to moist	FILL		fine to coarse SAND, little ash, trace coal, (7.5YR 3/3) dark brown, medium dense, dry to moist, no odor, no staining.	ASM-X45A-4.0-4.5				
5				NR		NO RECOVERY					
6	3.5	0.0	dry to moist	FILL		fine to coarse SAND, little ash, trace coal, (7.5YR 3/3) dark brown, medium dense, dry to moist, no odor, no staining.	ASM-X45A-6.0-6.5				
7			wet	FILL		ASH, little coal and fill debris (5Y 5/1) gray, loose, wet, no odor, no staining, water at 7.0 feet.	ASM-X45A-8.0-8.5				
8				NR		NO RECOVERY					
9	4.5	0.0	wet	FILL		ASH, some fine to medium sand, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-X45A-10.0-10.5				
11											
12			wet	FILL		fine silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining.	ASM-X45A-12.0-12.5				
13				NR		NO RECOVERY					
14	5	0.0		FILL		fine silty SAND, little fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	ASM-X45A-14.0-14.5				
15											
16											
17											
18											
19											
20											
20		0.0	slightly moist	PT		PEAT, 75% organic fibers, 25% organic silt, (5YR 3/2) dark reddish brown, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with MM.	ASM-X45A-16.0-16.5				
21							ASM-X45A-18.0-18.5				
							ASM-X45A-19.5-20.0				
							ASM-X45A-20.0-20.5				

**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) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610919.5
<b>Date Started Drilling:</b> 8/17/2016 8:10:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682131.4
<b>Date Finished Drilling:</b> 8/17/2016 9:50:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 25 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 7.0
<b>Physical Location:</b> Actual - Smith PDI		<b>Surface Elevation:</b> 14.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
— 23 —	4		moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5Y 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
— 24 —				NR		NO RECOVERY	
— 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) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.



<b>Project Name:</b> PPG Garfield Ave	<b>Drilling Company:</b> SGS North America	
<b>Project Number:</b> 60240739	<b>Drilling Method:</b> Direct Push	<b>Coordinates (NJSPNAD83) x:</b> 610900.4
<b>Date Started Drilling:</b> 9/26/2016 8:20:00 AM	<b>Rig Type:</b>	<b>Coordinates (NJSPNAD83) y:</b> 682119.8
<b>Date Finished Drilling:</b> 9/26/2016 9:30:00 AM	<b>Core Size:</b> 3.0 in	<b>Boring Total Depth:</b> 21 ft
<b>Logged By:</b> ES	<b>Project Manager:</b> Scott Mikaelian	<b>Depth to Water:</b> 9.0
<b>Physical Location:</b> ACTUAL - Smith Supplemental PDI		<b>Surface Elevation:</b> 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	4	0.0		CONCRETE		Concrete floor slab		
2			dry	FILL		fine to medium SAND, some fill debris, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	ASM-X46AR-1.5-2.0	
3			dry	FILL		fine to medium SAND, some fill debris, little ash, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no staining.		
4				NR		NO RECOVERY		ASM-X46AR-3.5-4.0
5	5	0.0		CONCRETE		Concrete slab		
6			dry	FILL		ASH, some fill debris, (5Y 5/1) gray, loose, dry, no odor, no staining.	ASM-X46AR-5.5-6.0	
7			moist	FILL		fine to coarse SAND, some ash, little fill debris, (5YR 3/3) dark reddish brown, medium dense, moist, no odor, no staining.	ASM-X46AR-7.5-8.0	
8			wet	FILL		ASH, some fine sand, trace fill debris, (5Y 5/1) gray, loose, wet, no odor, no staining, water at 9.0 feet.		
9							ASM-X46AR-9.5-10.0	
10	5	0.0	wet	FILL		fine to coarse gravelly SAND, (5Y 5/1) gray, medium dense, wet, no odor, no staining.		
11			wet	FILL		ASH, little fill debris, trace silt, (5Y 5/1) gray, loose, wet, no odor, no staining.	ASM-X46AR-11.5-12.0	
12			wet	FILL		fine silty SAND, little to trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.		
13							ASM-X46AR-13.5-14.0	
14	5	0.0	wet	FILL		fine silty SAND, little fine gravel, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining.		
15								ASM-X46AR-15.5-16.0
16								
17							ASM-X46AR-17.5-18.0	
18	1	0.0	dry	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (5YR 4/4) reddish brown, stiff, dry, slight organic odor, no staining. Soils consistent with MM.	ASM-X46AR-19.0-19.5	
19								ASM-X46AR-19.5-20.0
20								
21								

**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.



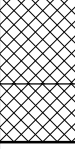


30 Knightsbridge Road, Piscataway, NJ 08854  
732.564.3200 office telephone

# Boring ID: T46AR/ MW2C-SA

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