

Appendix G

Boring Logs

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 10W-D32A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610551.3
Date Started Drilling: 5/28/2014 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682754.1
Date Finished Drilling: 5/28/2014 8:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.1 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry	FILL		fine to medium SAND, some medium to coarse gravel, little brick, trace coal, (7.5YR 3/4) dark brown, loose, dry, no odor, no staining.	10W-D32A-0.5-1.0
2	5						
3							10W-D32A-2.5-3.0
4							
5		0.0	dry	FILL		fine to medium SAND, some cinders, little medium gravel, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining.	10W-D32A-4.5-5.0
6		0.0	dry	FILL		CINDERS, some ash, little fine to medium sand, (7.5YR 4/1) dark gray, loose, dry to moist, no odor, no staining.	10W-D32A-6.5-7.0
7	5	0.0	dry to moist	FILL		fine to medium silty SAND, (7.5YR 3/2) dark brown, loose, slightly moist to moist, no odor, no staining, water table encountered at 7.5 ft bgs.	10W-D32A-7.0-7.5
8		0.0	sl. moist to moist	FILL		CINDERS, and ash, little coal, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	10W-D32A-8.5-9.0
9		0.0	moist to moist	FILL		fine to medium SAND, some cinders, trace debris, (7.5YR 4/3) brown, loose, wet, no odor, no staining.	10W-D32A-9.5-10.0
10		0.0	wet	FILL		UNDno fine to medium silty SAND, (7.5YR 6/3) light brown, loose, dry, no odor, no staining. Soils consistent with UNDno.	10W-D32A-10.8-11.3
11	5	0.0	dry	SM		UNDorg SILT, little organic fibers, low plasticity, soft, dry, no odor, no staining. Soils consistent with UNDorg.	10W-D32A-11.3-11.8
12							
13							
14							
15		0.0	dry	OL		fine to medium silty SAND, little medium gravel, (7.5YR 5/3) brown, loose, moist, no odor, no staining. Soils consistent with UNDno.	
16	5	0.0	moist	SM			
17							
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/GGM present in any interval of this boring.

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Boring ID: 10W-D33A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610533.5
Date Started Drilling: 5/23/2014 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682718.0
Date Finished Drilling: 5/23/2014 12:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry to sl. moist	FILL		fine to medium SAND, some silty sand, little cinders, ash, trace coarse gravel, (5YR 4/3) reddish brown, dense, dry to slightly moist, no odor, no staining.	10W-D33A-0.5-1.0
2							
3							10W-D33A-2.5-3.0
4							
5	4	0.0	sl. moist to moist	FILL		fine to medium silty SAND, with cinders, ash, (7.5YR 3/2) dark brown, medium dense, slightly moist to moist, no odor, no staining.	10W-D33A-4.5-5.0
6							
7							10W-D33A-6.5-7.0
8							10W-D33A-7.5-8.0
9	5	0.0	wet	FILL		CINDERS, and ash, (10YR 3/1) very dark gray, loose, wet, no odor, no staining, water table at 8.0 ft bgs.	10W-D33A-8.5-9.0
10				NR		NO RECOVERY	
11		0.0	wet	FILL		CINDERS, and ash, with silty sand, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-D33A-10.5-11.0
12		0.0	wet	FILL		fine to medium silty SAND, little cinders, ash, (7.5YR 3/4) dark brown, medium dense, wet, no odor, no staining.	
13	5	0.0	wet to dry	SM		UNDno fine to medium silty SAND, (7.5YR 4/2) brown, medium dense to medium stiff, wet to dry, no odor, no staining. Soils consistent with UNDno.	10W-D33A-12.0-12.5
14							
15		0.0	wet	SM		UNDno sandy SILT, (10YR 5/2) grayish brown, soft to medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
16							
17	5						
18							
19		0.0	moist	SM		UNDno fine to coarse silty SAND, (5YR 4/3) reddish brown, dense, moist, no odor, no staining. Soils consistent with UNDno.	
20							

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










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Boring ID: 10W-D39A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610462.1
Date Started Drilling: 5/29/2014 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682573.6
Date Finished Drilling: 5/29/2014 11:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 18.2 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, some cinders, little fine gravel, trace coal, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	10W-D39A-1.0-1.5
2							
3		0.0	dry	FILL		CINDERS, little wood fragments, trace debris, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	10W-D39A-3.0-3.5
4		0.0	dry	FILL		fine to medium SAND, little medium gravel, little ash, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	10W-D39A-3.5-4.0
5	5	0.0	dry	FILL		fine to medium SAND, little medium to coarse gravel, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	10W-D39A-5.0-5.5
6							
7							10W-D39A-7.0-7.5
8							
9	5						10W-D39A-9.0-9.5
10		0.0	wet	FILL		fine to medium silty SAND, trace fill material, (7.5YR 4/3) brown, loose, wet, no odor, no staining, water table encountered at 10.0 ft bgs.	10W-D39A-9.5-10.0
11							10W-D39A-11.0-11.5
12							
13	5						10W-D39A-13.0-13.5
14							
15		0.0	wet	SM		UNDno fine silty SAND, (5YR 4/3) reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno.	10W-D39A-14.5-15.0
16							10W-D39A-15.0-15.5
17							
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/GGM present in any interval of this boring.

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Boring ID: 10W-F33A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610587.2
Date Started Drilling: 5/23/2014 12:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682690.5
Date Finished Drilling: 5/23/2014 1:10:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.7 ft NAVD88

(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 cinders, ash, little fine to coarse gravel, (10YR 3/2) very dark grayish brown, medium dense, dry, no odor, no staining.	10W-F33A-0.5-1.0
2							
3		0.0	moist	FILL		CINDERS, and ash, trace coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	10W-F33A-2.5-3.0
4							10W-F33A-4.5-5.0
5	5	0.0	moist to wet	FILL		CINDERS, and ash, with fine to medium silty sand, moist to wet, slight hydrocarbon odor, no staining, water table at 6.0 ft bgs.	10W-F33A-5.5-6.0
6							10W-F33A-6.5-7.0
7							
8							10W-F33A-8.5-9.0
9							
10	5	0.0	wet	FILL		ASH, with cinders, some fine to coarse gravel, trace glass, (10YR 6/1) gray, loose, wet, no odor, no staining.	10W-F33A-10.5-11.0
11							
12							10W-F33A-12.5-13.0
13							
14							10W-F33A-14.5-15.0
15	5	0.0	wet	FILL		fine to medium silty SAND, little to trace fine to medium gravel, trace debris, (7.5YR 3/2) dark brown, medium dense, wet, no odor, no staining.	10W-F33A-15.3-15.8
16		0.0	wet to moist	OL		UNDorg fine to medium sandy SILT, with organics, (7.5YR 4/2) brown, soft to medium stiff, wet to moist, moderate organic odor, no staining. Soils consistent with UNDorg.	10W-F33A-15.8-16.3
17							
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/GGM present in any interval of this boring.

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Boring ID: 10W-F38A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610545.5
Date Started Drilling: 5/27/2014 12:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682565.0
Date Finished Drilling: 5/27/2014 1:45:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 17.8 ft NAVD88

(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 wet	FILL		fine to medium silty SAND, some cinders, little concrete, trace ash, (5YR 4/3) reddish brown, medium dense, dry to wet, no odor, no staining, water table at 5.0 ft bgs.	10W-F38A-1.0-1.5
2							
3							10W-F38A-3.0-3.5
4							10W-F38A-4.5-5.0
5	5	0.0	wet	FILL		CINDERS, and ash, little fine to medium gravel, (10YR 5/1) gray, loose, wet, no odor, no staining.	10W-F38A-5.0-5.5
6							
7							10W-F38A-7.0-7.5
8							
9	5		wet	FILL		fine to medium silty SAND, little to trace debris, trace brick, some fine to medium gravel, (2.5YR 4/2) weak red, medium dense, wet, no odor, no staining.	10W-F38A-9.0-9.5
10							
11							10W-F38A-11.0-11.5
12							
13	5		wet	SM		UNDno fine to medium silty SAND, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	10W-F38A-13.0-13.5
14							
15							10W-F38A-14.5-15.0
16							10W-F38A-15.0-15.5
17	5		dry	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
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/GGM present in any interval of this boring.

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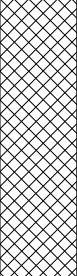
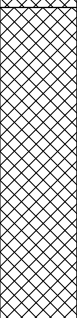
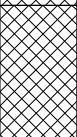
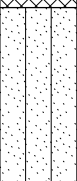
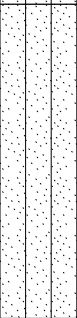
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Boring ID: 10W-F39A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610515.7
Date Started Drilling: 5/29/2014 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682545.6
Date Finished Drilling: 5/29/2014 1:20:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 17.8 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		ASH, and cinders, some fine to medium sand, little crushed concrete, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining.	10W-F39A-1.0-1.5
							10W-F39A-3.0-3.5
5 6 7 8 9 10	5	0.0	dry	FILL		CINDERS, some fine to medium gravel, little debris, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	10W-F39A-5.0-5.5
							10W-F39A-7.0-7.5
							10W-F39A-9.0-9.5
							10W-F39A-9.5-10.0
10 11 12 13 14	5	0.0	wet	FILL		fine silty SAND, some cinders, little fill material, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining, water table encountered at 10.0 ft bgs.	10W-F39A-11.0-11.5
							10W-F39A-11.7-12.2
		0.0	wet	SM		UNDno fine to medium silty SAND, (7.5YR 4/2) brown, loose, wet, no odor, no staining. Soils consistent with UNDno.	10W-F39A-12.2-12.7
15 16 17 18 19 20	5	0.0	wet	SM		UNDno fine to medium silty SAND, (7.5YR 4/3) brown, loose, wet, no odor, no staining. Soils consistent with UNDno.	

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

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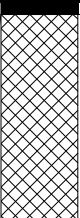
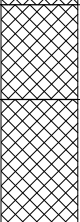
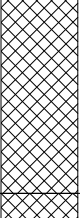
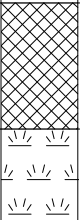



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Boring ID: 10W-G32A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610648.4
Date Started Drilling: 5/9/2014 12:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682704.7
Date Finished Drilling: 5/9/2014 1:25:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 14.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID			
1 2 3 4	5	0.0	moist to wet	ASPHALT		ASPHALT	10W-G32A-0.5-1.0			
		0.0		FILL		CINDERS, little fine to medium sand, little debris, (7.5YR 3/3) dark brown, loose, moist to wet, no odor, no staining.				
		5 6 7 8 9	5	0.0	moist	FILL			fine to medium SAND, trace fine gravel, (10YR 5/2) grayish brown, loose, moist, no odor, no staining.	10W-G32A-2.5-3.0
				0.0	moist to wet	FILL			CINDERS, some medium to coarse gravel, trace wooden fragments, trace ceramics, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining, water table encountered at 6.0 ft bgs.	10W-G32A-4.5-5.0
10 11 12 13 14	5	0.0	wet	FILL		GGM, fine to medium SAND, some cinders, little fine to medium gravel, trace debris, (7.5YR 3/1) very dark gray, loose, wet, no odor, green staining.	10W-G32A-5.5-6.0			
		15 16 17 18 19 20	4	0.0		wet	FILL	CINDERS, some fine to medium gravel, little medium sand, trace debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	10W-G32A-6.5-7.0	
							NR		NO RECOVERY	10W-G32A-8.5-9.0
				0.0		dry to moist	FILL		SILT, some organics, trace debris, (7.5YR 4/2) brown, low plasticity, soft, dry to moist, no odor, no staining. Material is consistent with disturbed native material.	10W-G32A-10.0-10.5
0.0	dry to sl. moist	PT	  	PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry to slightly moist, strong organic odor. Soils consistent with MM.	10W-G32A-10.5-11.0					

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

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Boring ID: 10W-H34A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610636.3
Date Started Drilling: 5/30/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682656.1
Date Finished Drilling: 5/30/2014 1:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.5 ft NAVD88

(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 cinders, some medium to coarse gravel, little ash, trace glass, (10YR 4/2) dark grayish brown, medium dense to loose, dry, no odor, no staining.	10W-H34A-0.6-1.1
2							
3							10W-H34A-2.5-3.0
4							10W-H34A-4.5-5.0
5	4	0.0	moist to wet	FILL		CINDERS, and ash, little debris, loose, moist to wet, no odor, no staining, water table at 5.9 ft bgs.	10W-H34A-5.4-5.9
6							
7							10W-H34A-6.5-7.0
8							
9				NR		NO RECOVERY	10W-H34A-8.5-9.0
10	5	0.0	wet	FILL		ASH, with cinders, some silty sand, (10YR 4/1) dark gray, loose, wet, no odor, no staining.	10W-H34A-10.5-11.0
11							
12							10W-H34A-12.5-13.0
13							
14		0.0	wet	FILL		fine to medium silty SAND, some to little cinders, some to little ash, little debris, (10YR 2/2) very dark brown, wet, no odor, no staining.	10W-H34A-14.5-15.0
15	5	0.0	wet	FILL			10W-H34A-15.5-16.0
16		0.0	wet	FILL			10W-H34A-16.7-17.2
17							
18		0.0	dry	OL		UNDorg SILT, 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	10W-H34A-17.2-17.7
19							
20							

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



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Boring ID: 10W-H35A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610610.9
Date Started Drilling: 5/27/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682608.1
Date Finished Drilling: 5/27/2014 12:20:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.5 ft NAVD88

(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 silty SAND, some cinders, little to trace ash, trace coal, trace glass, (7.5YR 3/2) dark brown, dense to medium dense, dry, no odor, no staining.	10W-H35A-0.5-1.0
2							
3							10W-H35A-2.5-3.0
4							
5	5	0.0	sl. moist to wet	FILL		ASH, and cinders, little coal, trace debris, (10YR 4/1) dark gray, loose, slightly moist to wet, no odor, no staining, water table at 6.5 ft bgs.	10W-H35A-4.5-5.0
6							
7							10W-H35A-6.0-6.5
8							10W-H35A-6.5-7.0
9	5						10W-H35A-8.5-9.0
10		0.0	wet	FILL			
11							10W-H35A-10.5-11.0
12							
13	5	0.0	wet	FILL		ASH, with fine to medium silty sand, (10YR 6/1) gray, loose, wet, no odor, no staining.	10W-H35A-12.5-13.0
14							
15							10W-H35A-14.5-15.0
16		0.0	moist	FILL			
17	5	0.0	wet	SM		fine to medium silty SAND, little organics, little to trace ash, trace debris, (7.5YR 3/2) dark brown, soft to medium dense, moist, no odor, no staining. UNDno fine to medium SAND, little silt, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. UNDorg SILT, with organics, (7.5YR 4/2) brown, soft to medium dense, dry, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, very stiff, dry, strong organic odor, no staining. Soils consistent with MM.	10W-H35A-15.5-16.0
18		0.0	dry	OL			10W-H35A-16.0-16.5
19		0.0	dry	PT			
20		0.0	dry	OL			
						UNDorg SILT, 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	

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



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Boring ID: 10W-H37A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610586.7
Date Started Drilling: 5/28/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682557.1
Date Finished Drilling: 5/28/2014 11:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.5 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, some cinders, little brick, little crushed concrete, trace coal, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	10W-H37A-0.5-1.0
2							
3							10W-H37A-2.5-3.0
4							
5		0.0	dry	FILL		CINDERS, some fine to medium sand, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	10W-H37A-4.5-5.0
6	5	0.0	sl. moist to wet	FILL			10W-H37A-5.5-6.0
7							10W-H37A-6.5-7.0
8							
9						CINDERS, some ash, little debris, (7.5YR 4/1) dark gray, loose, slightly moist to wet, water table encountered at 6.0 ft bgs.	10W-H37A-8.5-9.0
10	5	0.0	moist	FILL			
11							10W-H37A-10.5-11.0
12							10W-H37A-11.5-12.0
13		0.0	slightly moist	SM		fine to medium silty SAND, (7.5YR 4/2) brown, medium dense, slightly moist, no odor, no staining. Soils consistent with UNDno.	10W-H37A-12.0-12.5
14	5						
15		0.0	dry to sl. moist	OL			
16		0.0	moist	OL			
17						UNDorg SILT, little organic fibers, (7.5YR 4/3) brown, low plasticity, soft, dry to slightly moist, no odor, no staining. Soils consistent with UNDorg. UNDorg SILT, little organic fibers, (7.5YR 3/3) dark brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg.	
18	5						
19							
20							

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

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Boring ID: 10W-H39A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610558.3
Date Started Drilling: 5/15/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682505.4
Date Finished Drilling: 5/15/2014 11:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry to sl. moist	FILL		fine to medium SAND, some coarse gravel, little concrete, trace debris, (2.5YR 4/3) reddish brown, loose, dry to slightly moist, no odor, no staining.	10W-H39A-1.0-1.5
2							
3							
4		0.0	slightly moist	FILL		fine to medium SAND, little cinders, little medium to coarse gravel, (5YR 4/4) reddish brown, loose, slightly moist, no odor, no staining.	10W-H39A-3.0-3.5
5	5	0.0	moist to wet	FILL		CINDERS, some fine to medium sand, little wood fragments, (5YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table encountered at a depth of 8.5 ft bgs.	10W-H39A-5.0-5.5
6							
7							
8							
9							10W-H39A-8.0-8.5
10							10W-H39A-9.0-9.5
11	5	0.0	wet	FILL		CINDERS, some ash, little fine to medium sand, trace debris, (5YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-H39A-11.0-11.5
12							
13							
14		0.0	moist	SM		UNDno sandy SILT, (5YR 5/3) reddish brown, (7.5YR 4/3) brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.	10W-H39A-12.5-13.0
15	5	0.0	moist to wet	SM		UNDno sandy SILT, (7.5YR 4/3) brown, low plasticity, soft, moist to wet, no odor, no staining. Soils consistent with UNDno.	
16							
17							
18		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, medium stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
19		0.0	slightly moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, slightly moist, slight organic odor. Soils consistent with UNDorg.	
20							

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

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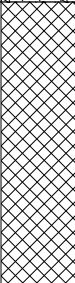
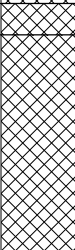
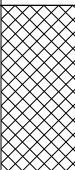
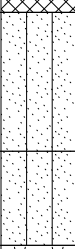
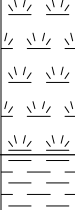
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Boring ID: 10W-H41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610530.5
Date Started Drilling: 5/15/2014 12:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682450.5
Date Finished Drilling: 5/15/2014 1:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By:	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.5 ft NAVD88

(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	67.0	dry to sl. moist	FILL		fine to medium SAND, some coarse gravel, little brick, (7.5YR 4/2) brown, loose, dry to slightly moist, no odor, no staining, highest PID at 1.5-2.0 ft bgs.	10W-H41A-0.5-1.0	
2							10W-H41A-1.5-2.0	
3							10W-H41A-2.5-3.0	
4							10W-H41A-4.5-5.0	
5							10W-H41A-6.5-7.0	
6	4	0.0	dry	FILL		fine to medium SAND, little cinders, little fine to medium gravel, (7.5YR 4/4) brown, loose, dry, no odor, no staining. CINDERS, some ash, little debris, (7.5YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table encountered at a depth of 9.0 ft bgs.	10W-H41A-8.5-9.0	
7		0.0	moist to wet	FILL			10W-H41A-10.5-11.0	
8							10W-H41A-12.3-12.8	
9							10W-H41A-12.8-13.3	
10	5			NR		NO RECOVERY		
11		0.0	wet	FILL		CINDERS, and ash, some medium gravel, little wood fragments, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.		
12								
13	0.0	moist	SM	UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDno.				
14	5					UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, soft, wet, no odor, no staining. Soils consistent with UNDno.		
15		0.0	wet	SM				
16		0.0	dry	PT			PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
17								
18		0.0	slightly moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/2) dark grayish brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.		
19								
20								

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

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Boring ID: 10W-H43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610506.3
Date Started Drilling: 5/14/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682397.1
Date Finished Drilling: 5/14/2014 10:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE	
2		0.0	dry	FILL		medium SAND, little gravel, trace ash, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	10W-H43A-0.5-1.0
3		0.0	dry	FILL		fine to medium SAND, little cinders, trace debris, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining.	10W-H43A-2.5-3.0
4							10W-H43A-4.5-5.0
5	4	0.0	dry	FILL		CINDERS, some fine to medium sand, little medium gravel, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining, water table encountered at a depth of 8.0 ft bgs.	10W-H43A-5.0-5.5
6							10W-H43A-6.5-7.0
7							10W-H43A-7.5-8.0
8		0.0	dry	FILL		fine to medium silty SAND, trace cinders, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	10W-H43A-8.5-9.0
9				NR		NO RECOVERY	
10	5	0.0	wet	FILL		coarse GRAVEL, little silty sand, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	10W-H43A-10.5-11.0
11							
12		0.0	wet	FILL		fine to medium SAND, trace cinders, trace debris, (10YR 5/2) grayish brown, loose, wet, no odor, no staining.	10W-H43A-12.0-12.5
13		0.0	moist	SP		UNDno fine to medium SAND, (7.5YR 4/3) brown, loose, moist, no odor, no staining. Soils consistent with UNDno.	10W-H43A-12.5-13.0
14							
15	5	0.0	moist to wet	SM		UNDno sandy SILT, (10YR 4/3) brown, low plasticity, soft, moist to wet, no odor, no staining. Soils consistent with UNDno.	
16							
17							
18		0.0	dry to sl. moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, dry to slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19							
20							

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

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Boring ID: 10W-I43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610548.0
Date Started Drilling: 5/14/2014 11:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682380.7
Date Finished Drilling: 5/14/2014 1:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

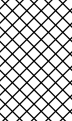

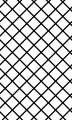



(Note: bgs = below ground surface)

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		CINDERS, some fine to medium sand, some ash, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	10W-I43A-0.5-1.0
2							
3							10W-I43A-2.5-3.0
4							10W-I43A-4.5-5.0
5	4	0.0	moist to wet	FILL		fine to medium SAND, little trace ash, (7.5YR 4/3) brown, loose, moist to wet, no odor, no staining, water table encountered at a depth of 8.5 ft bgs.	
6							10W-I43A-6.5-7.0
7							
8							10W-I43A-8.0-8.5
9				NR		NO RECOVERY	10W-I43A-8.5-9.0
10	5	0.0	wet	FILL		fine silty SAND, trace cinders, (10YR 4/1) dark gray, loose, wet, no odor, no staining.	
11		0.0	wet to saturated	FILL		CINDERS, some fine to medium sand, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining.	10W-I43A-10.5-11.0
12							
13							10W-I43A-12.5-13.0
14							10W-I43A-14.5-15.0
15	5	0.0	dry	FILL		fine to medium SAND, trace ash, trace organics, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	10W-I43A-15.5-16.0
16		0.0	dry to moist	SP		UNDno fine to medium SAND, (7.5YR 4/3) brown, loose, dry to moist, no odor, no staining. Soils consistent with UNDno.	10W-I43A-16.0-16.5
17		0.0	wet to saturated	SM		UNDno sandy SILT, (7.5YR 4/2) brown, low plasticity, very soft, wet to saturated, no odor, no staining. Soils consistent with UNDno.	
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/GGM present in any interval of this boring.

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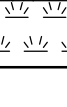
Project Name: PPG Garfield Ave	Drilling Company: Summit Drilling	
Project Number: 60595458	Drilling Method: Direct Push/Hand Auger	Coordinates (NJSPNAD83) x: 610529.3
Date Started Drilling: 12/9/2019	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682334.9
Date Finished Drilling: 12/9/2019	Core Size: 2 inch	Boring Total Depth: 20 ft
Logged By: Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: 8.5
Physical Location: Outside 10 West Building		Surface Elevation: 16.8 ft NAVD88

Depth (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Soil Description:	Sample ID
1	5	0	Dry to Moist	FILL		fine to medium SAND, some coarse gravel, little fill debris (glass and bricks), (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining	
2			Dry to Moist	FILL		fine to medium SAND, little coarse gravel and brick fragments, potential COPR nodules <1/8" diameter, magnetic characteristics, (5YR 3/2) dark reddish brown, medium dense, dry to moist, no odor, no staining	10W-I44A-2.0-2.5
3				FILL			
4			Dry to Moist			fine to medium SAND, some coarse gravel, little angular rocks, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining	
5	5	0					
6							
7							
8							
9	5	0	Moist to Wet	FILL		medium to coarse SAND, some coarse gravel and fill debris, (7.5YR 3/2) dark brown, medium dense, moist to wet, no odor, no staining	
10			Wet	FILL		fine to medium SAND, some silt, little coarse gravel, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining	
11							
12							
13	5	0	Wet	FILL		fine to coarse GRAVEL, some fine sands, little fill debris, (7.5YR 3/2) dark brown, medium dense, wet, no odor, no staining	10W-I44A-13.5-14.0
14			Wet	FILL		fine to medium SAND, some silt, little coarse gravel, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining	
15			Wet	FILL		fine to coarse GRAVEL, some fine sands, (7.5YR 3/2) dark brown, medium dense, wet, no odor, no staining	10W-I44A-15.5-16.0
16			Wet	FILL		fine to coarse silty SAND, little coarse gravel, (5YR 4/3) reddish brown, soft, wet, no odor, no staining	
17	5	0					
18			Moist to Wet	OL		UNDorg- silt, some organic fibers, trace fine sands, (7.5YR 3/2) dark brown, soft, moist to wet, slight organic odor, no staining	
19							
20			Moist	PT		PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining	

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

Comments:








Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610727.9
Date Started Drilling: 12/9/2019	Rig Type:	Coordinates (NJSPNAD83) y: 682703.4
Date Finished Drilling: 12/9/2019	Core Size:	Boring Total Depth: 20 ft
Logged By: TI	Project Manager:	Depth to Water:
Physical Location: 10W-PDI-2019		Surface Elevation: 13.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0	dry	FILL		DGA fine to coarse SAND, with coarse gravel and angular rocks, little ash, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining	10W-J31A-0.5-1.0
2			dry	FILL		fine to medium SAND, some COPR nodules (40%), trace silts, (7.5YR 6/3) light brown, medium dense, dry to moist, no odor, no staining	10W-J31A-2.0-2.5
3			moist	FILL		fine to medium SAND, little coarse gravel, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining	
4			moist	FILL		fine to medium SAND, little coarse gravel and coal fragment, (5YR 3/4) dark reddish brown, medium dense, moist, no odor, no staining	10W-J31A-4.0-4.5
5	4	0		NR		NO RECOVERY	
6			wet	FILL		fine to coarse GRAVEL, some f-c sands, little fill debris, (7.5YR 6/4) light brown, medium dense, wet, no odor, no staining	10W-J31A-6.0-6.5
7			wet	FILL		fine to coarse SAND, some silts and coarse gravel, little fill debris, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining	10W-J31A-8.0-8.5
8							
9							
10	5	0					10W-J31A-10.0-10.5
11			wet	FILL		fine to coarse gravelly SAND, with ash, some fill debris, little slag fragments, (2.5Y 5/1) gray, medium dense, wet, no odor, no staining	10W-J31A-12.0-12.5
12							
13							
14							10W-J31A-14.0-14.5
15	4	0		NR		NO RECOVERY	
16			wet	FILL		fine to coarse SAND, with fill debris (glass fragments), (7.5YR 3/3) dark brown, medium dense, wet, no odor, no staining	10W-J31A-16.0-16.5
17							
18			moist	PT		PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining	10W-J31A-18.0-18.5
19			wet	SM		fine to coarse SAND, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining	10W-J31A-18.5-19.0
20			moist	PT		PEAT (degraded vegetated material), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining	10W-J31A-19.0-19.5

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

Comments:








Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610721.4
Date Started Drilling: 12/10/2019	Rig Type:	Coordinates (NJSPNAD83) y: 682668.3
Date Finished Drilling: 12/11/2019	Core Size:	Boring Total Depth: 20 ft
Logged By: TI	Project Manager:	Depth to Water:
Physical Location: 10W-PDI-2019		Surface Elevation: 13.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	5	0.0		ASPHALT		Asphalt	
1			dry	FILL		fine to medium SAND, little COPR nodules (20-30%), (5YR 3/3) dark reddish brown, medium dense, dry to moist , no odor , no staining	10W-J32A-0.5-1.0
2							10W-J32A-2.0-2.5
3							
4			dry	FILL		fine to coarse SAND, some fill debris (glass, ash, brick), (2.5Y 5/2) grayish brown, medium dense, dry to moist , no odor , no staining	10W-J32A-4.0-4.5
5	3.5	0.0					
6							10W-J32A-6.0-6.5
7			moist	FILL		fine to coarse SAND, with fill debris (ash), (2.5Y 5/1) gray, medium dense, moist to wet , no odor , no staining	
8							10W-J32A-8.0-8.5
9				NR		NO RECOVERY	
10	4.5	0.0	wet	FILL		fine to coarse SAND, with coarse gravel and ash, (5Y 5/1) gray, medium dense, wet , no odor , no staining	10W-J32A-10.0-10.5
11							10W-J32A-12.0-12.5
12							
13							10W-J32A-14.0-14.5
14							
15	5	0.0	wet	FILL		fine to medium SAND, some coarse gravel, ash, (2.5Y 4/1) dark gray, medium dense, wet , no odor , no staining	10W-J32A-16.0-16.5
16							
17							
18							10W-J32A-18.0-18.5
19			moist	PT		PEAT (degraded vegetated material), some organic fibers, (7.5YR 3/2) dark brown, soft, moist , moderate organic odor , no staining	10W-J32A-18.5-19.0
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:

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610695.5
Date Started Drilling: 5/22/2014 1:45:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682636.7
Date Finished Drilling: 5/22/2014 1:55:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By:	Project Manager:	Depth to Water:
Physical Location: 10 West		Surface Elevation: 14.9 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	
1	5	0.0	dry	FILL		fine to medium SAND, with cinders, ash, little concrete, trace coal, (7.5YR 3/2) dark brown, dense, dry, no odor, no staining.	10W-J33A-1.0-1.5
2							
3							
4							
5	5	0.0	moist to wet	FILL		CINDERS, with ash, some fine to medium silty sand, (10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table at 5.5 ft bgs.	10W-J33A-5.0-5.5
6							
7							
8							
9	3.5	0.0	saturated	FILL		CINDERS, with ash, some fine to medium silty sand, trace debris, (10YR 3/1) very dark gray, very loose, saturated, no odor, no staining.	10W-J33A-9.0-9.5
10							
11							
12							
13	5			NR		NO RECOVERY	10W-J33A-11.0-11.5
14							
15		0.0	wet	FILL		CINDERS, with debris, (7.5YR 3/1) very dark gray, very loose, wet, no odor, no staining.	10W-J33A-13.0-13.5
16							
17	5						10W-J33A-15.0-15.5
18							
19		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/2) grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	10W-J33A-18.0-18.5
20		0.0	dry	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM.	10W-J33A-18.5-19.0
							10W-J33A-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) UND/MM confirmed to be 1 ft thick 3) No COPR/GGM present in any interval of this boring.



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Boring ID: 10W-J35A

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Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610667.4
Date Started Drilling: 5/22/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682582.6
Date Finished Drilling: 5/22/2014 1:40:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.1 ft NAVD88

(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 moist	FILL		fine to medium SAND, some silty sand, some to little cinders, ash, trace fine to medium gravel, trace concrete, (10YR 4/2) dark grayish brown, dense to loose, dry to moist, no odor, no staining.	10W-J35A-1.0-1.5
2							
3							10W-J35A-3.0-3.5
4							
5	5	0.0	moist	FILL		fine to medium silty SAND, with ash, some wood debris, little cinders, (7.5YR 3/4) dark brown, loose, moist, no odor, no staining. CINDERS, and ash, some fine to medium silty sand, little coal, trace debris, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining, water table at 5.5 ft bgs.	10W-J35A-5.0-5.5
6		0.0	wet	FILL			
7							10W-J35A-7.0-7.5
8							
9	3.5					CINDERS, with ash, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-J35A-9.0-9.5
10		0.0	wet	FILL			
11							10W-J35A-11.0-11.5
12							
13	5					NO RECOVERY	10W-J35A-13.0-13.5
14				NR			
15		0.0	wet	FILL			10W-J35A-15.0-15.5
16							
17	5					fine to medium silty SAND, with ash, cinders, little wood debris, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-J35A-17.0-17.5
18							
19		0.0	moist	FILL			10W-J35A-18.5-19.0
20		0.0	moist	OL			10W-J35A-19.0-19.5
		0.0	dry	PT		sandy SILT, some organics, trace fill material, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining. Appears to be disturbed native material. sandy SILT, with organics, (10YR 6/2) light brownish gray, low plasticity, soft, moist, no odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (10YR 4/3) brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM.	

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

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Boring ID: 10W-J38A

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Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610635.6
Date Started Drilling: 5/16/2014 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682522.1
Date Finished Drilling: 5/16/2014 12:50:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.2 ft NAVD88

(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 cinders, ash, little fine to coarse gravel, trace brick, concrete, (10YR 4/2) dark grayish brown, dense, dry, no odor, no staining.	10W-J38A-0.6-1.1
2							
3							10W-J38A-2.5-3.0
4							10W-J38A-4.5-5.0
5	4	0.0	moist to wet	FILL		ASH, and cinders, some fine to coarse sand, little fine to medium gravel, (10YR 3/1) very dark gray, loose, moist to wet, no odor, no staining, water table at 8.0 ft bgs.	
6							10W-J38A-6.5-7.0
7							10W-J38A-7.5-8.0
8							10W-J38A-8.5-9.0
9				NR		NO RECOVERY	
10	5	0.0	wet	FILL		CINDERS, and ash, with fine to medium silty sand, little fine to medium gravel, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-J38A-10.5-11.0
11							
12							10W-J38A-12.5-13.0
13							10W-J38A-14.5-15.0
14	5	0.0	moist to wet	FILL		sandy SILT, some wood debris, (5YR 2.5/1) black, soft, moist to wet, no odor, no staining.	
15							
16		0.0	moist	FILL		sandy SILT, little organics (grass), (10YR 4/3) brown, soft, moist, no odor, no staining. Appears to be disturbed native material.	10W-J38A-16.5-17.0
17		0.0	moist	SM			10W-J38A-17.0-17.5
18						sandy SILT, (10YR 4/3) brown, soft, moist, no odor, no staining. Soils consistent with UNDno.	
19							
20		0.0	dry	PT		PEAT (degraded vegetated material), 60% organic fibers, 40% organic silt, (7.5YR 2.5/2) very dark brown, medium dense to soft, dry, moderate organic odor, no staining. Soils consistent with MM.	

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

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Boring ID: 10W-J39A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610611.7
Date Started Drilling: 5/16/2014 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682477.5
Date Finished Drilling: 5/16/2014 1:40:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.2 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, little fine to coarse gravel, little to trace brick, trace glass, wood debris, (10YR 3/1) very dark gray, medium dense to dense, dry, moderate hydrocarbon odor, no staining.	10W-J39A-0.5-1.0
2							
3							10W-J39A-2.5-3.0
4							10W-J39A-3.0-3.5
5	4	0.0	wet	FILL		CINDERS, with ash, little medium to coarse sand, (10YR 3/1) very dark gray, loose, wet, no odor, no staining, water table at 7.5 ft bgs.	10W-J39A-4.5-5.0
6							
7							10W-J39A-6.5-7.0
8							10W-J39A-7.0-7.5
9				NR		NO RECOVERY	10W-J39A-8.5-9.0
10	5	0.0	wet	FILL		CINDERS, and ash, some fine to medium gravel, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-J39A-10.5-11.0
11							
12							10W-J39A-12.5-13.0
13							
14				NR		NO RECOVERY	10W-J39A-14.5-15.0
15	4	0.0	wet	FILL		fine to medium silty SAND, and wood debris, (5YR 2.5/1) black, loose, wet, no odor, hydrocarbon staining.	10W-J39A-16.5-17.0
16							
17		0.0	moist	FILL			10W-J39A-18.5-19.0
18		0.0	dry	PT			10W-J39A-19.0-19.5
19						PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
20							

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

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

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Boring ID: 10W-J41A

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Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610588.1
Date Started Drilling: 5/19/2014 10:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682423.2
Date Finished Drilling: 5/19/2014 11:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.2 ft NAVD88

(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		crushed CONCRETE, and coarse gravel, some fine to medium sand, (7.5YR 7/1) light gray, loose, dry, no odor, no staining.	10W-J41A-1.0-1.5
3		0.0	dry	FILL		fine to medium SAND, little ash, little fine to medium gravel, trace brick fragments, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	10W-J41A-3.0-3.5
4	5						
5		0.0	moist to wet	FILL		fine to medium silty SAND, little ash, little fine to medium gravel, trace coal, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining, water table encountered at a depth of 6.5 ft bgs.	10W-J41A-5.0-5.5
6							10W-J41A-6.0-6.5
7							10W-J41A-7.0-7.5
8							10W-J41A-8.0-8.5
9		0.0	wet	SP-SM		UNDno fine silty SAND, (7.5YR 4/2) brown, loose, wet, no odor, no staining. Soils consistent with UNDno.	10W-J41A-8.5-9.0
10	5	0.0	wet	SP-SM		UNDno fine silty SAND, some silt, (7.5YR 4/2) brown, wet, no odor, no staining. Soils consistent with UNDno.	
11							
12							
13							
14							
15	0			NR		NO RECOVERY. No recovery due to large native gravel obstructing liner path.	
16							
17							
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/GGM present in any interval of this boring.

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Boring ID: 10W-J45A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610559.6
Date Started Drilling: 5/13/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682324.3
Date Finished Drilling: 5/13/2014 12:10:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(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 cinders, ash, little silty sand, trace coal, medium dense, dry, no odor, no staining.	10W-J45A-0.5-1.0
2							
3							10W-J45A-2.5-3.0
4							10W-J45A-4.5-5.0
5	4	0.0	moist	FILL		SILT, trace debris, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, greenish staining noted.	10W-J45A-5.0-5.5
6		0.0	wet	FILL		ASH, with cinders, little silty sand, (10YR 5/2) grayish brown, wet, no odor, no staining, water table at 6.0 ft bgs.	10W-J45A-5.5-6.0
7							10W-J45A-6.5-7.0
8							
9				NR		NO RECOVERY	10W-J45A-8.5-9.0
10	5	0.0	wet	FILL		fine to medium silty SAND, some glass, little debris, trace coal, (10YR 4/2) dark grayish brown, medium dense, wet, no odor, no staining.	10W-J45A-10.5-11.0
11							
12							10W-J45A-12.5-13.0
13							10W-J45A-14.5-15.0
14	5	0.0	wet	FILL		fine silty SAND, trace glass, (10YR 4/2) dark grayish brown, soft, wet, no odor, no staining.	
15		0.0	moist	FILL		SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	10W-J45A-16.5-17.0
16							
17							10W-J45A-18.5-19.0
18	5	0.0	moist	FILL		SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	10W-J45A-19.7-20.2
19		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	10W-J45A-20.2-20.7
20							
21							
22							
23							

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

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Boring ID: 10W-K32A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610756.4
Date Started Drilling: 5/9/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682649.6
Date Finished Drilling: 5/9/2014 11:05:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 12.3 ft NAVD88









(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	slightly moist	ASPHALT		ASPHALT	
2		0.0	moist	FILL		crushed CONCRETE, some medium to coarse gravel, (7.5YR 7/1) light gray, loose, slightly moist, no odor, no staining.	10W-K32A-1.0-1.5
3		0.0	moist	FILL		fine to medium SAND, little fine to medium gravel, (10YR 5/6) yellowish brown, loose, moist, no odor, no staining.	
4		0.0	wet	FILL		fine to medium silty SAND, little cinders, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	10W-K32A-3.0-3.5
5		0.0	wet	FILL		GGM, and fine to medium sand, little medium gravel, little cinders, trace glass fragments, (5GY 5/2) grayish green, loose, wet, no odor, no staining, water table encountered at 4.0 ft bgs.	10W-K32A-3.5-4.0
6	5	0.0	wet	FILL		GGM, and fine to medium sand, little medium gravel, little cinders, (5GY 5/2) grayish green, loose, wet, no odor, no staining.	10W-K32A-5.0-5.5
7		0.0	wet	FILL		GGM, and cinders, (7.5YR 4/1) dark gray, loose, wet, no odor, green staining.	
8		0.0	moist	FILL		GGM, fine to medium sand, little cinders, trace wood fragments, (5GY 5/2) grayish green, loose, moist, no odor, no staining.	
9		0.0	moist	FILL		GGM, with fine to medium sand, little cinders, little ash, (5GY 5/2) grayish green, loose, moist, no odor, no staining.	
10	5	0.0	moist	FILL			10W-K32A-11.5-12.0
11		0.0	moist	FILL			
12		0.0	moist	FILL			10W-K32A-13.0-13.5
13		0.0	moist	FILL			
14		0.0	moist	FILL			
15	5	0.0	moist	FILL		GGM, with fine to medium sand, (5GY 5/2) grayish green, loose, moist, no odor, no staining.	10W-K32A-15.0-15.5
16		0.0	moist	FILL		SILT, little clay, (7.5YR 2.5/1) black, low plasticity, soft, moist, no odor, no staining.	10W-K32A-15.7-16.2
17		0.0	moist	FILL			10W-K32A-17.0-17.5
18		0.0	moist	FILL			
19		0.0	moist	FILL			10W-K32A-18.5-19.0
20		0.0	dry to sl. moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, medium stiff, dry to slightly moist, moderate organic odor. Soils consistent with MM.	10W-K32A-19.0-19.5

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

PPG - PPG_LOGS.GDT - 8/11/14 16:37










Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610700.8
Date Started Drilling: 12/12/2019	Rig Type:	Coordinates (NJSPNAD83) y: 682612.5
Date Finished Drilling: 12/12/2019	Core Size:	Boring Total Depth: 21 ft
Logged By:	Project Manager:	Depth to Water:
Physical Location: 10W-PDI-2019		Surface Elevation: 14.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	5	0		CONCRETE		CONCRETE	
1			dry	FILL		fine to medium SAND, little coarse gravel, trace fill debris (brick fragments), (7.5YR 4/3) brown, medium dense, dry to moist , no odor , no staining	10W-K34A-0.5-1.0
2			dry	FILL		fine to medium SAND, some coarse gravel, little fill debris (brick pieces), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist , no odor , no staining	10W-K34A-2.0-2.5
3			dry	FILL		fine to medium SAND, (7.5YR 6/4) light brown, medium dense, dry to moist , no odor , no staining	
4			dry	FILL		fine to medium SAND, little silt, trace coal/slag, (7.5YR 2.5/1) black, dense, dry to moist , slight chemical odor , no staining	10W-K34A-4.0-4.5
5	2.5	0		NR		fine to medium SAND, some coarse gravel, little fill debris (glass fragments and bricks), (7.5YR 4/2) brown, medium dense, dry to moist , no odor , no staining	
6			dry	FILL		NO RECOVERY	10W-K34A-6.0-6.5
7						fine to medium SAND, some fill debris (brick fragments and chunks), (5YR 4/4) reddish brown, medium dense, dry to moist , no odor , no staining	
8							10W-K34A-8.0-8.5
9				NR		NO RECOVERY	
10	5	0	wet	FILL		fine to coarse GRAVEL, some fill debris (ash, brick fragments), little fine to medium sands, (2.5Y 4/1) dark gray, medium dense, wet , no odor , no staining	10W-K34A-10.0-10.5
11							
12							10W-K34A-12.0-12.5
13							
14							10W-K34A-14.0-14.5
15	6	0					
16							10W-K34A-16.0-16.5
17							
18							10W-K34A-18.0-18.5
19							
20			moist	PT		PEAT (degraded vegetated material), little organic fibers, (7.5YR 3/2) dark brown, soft, moist , strong organic odor , no staining	10W-K34A-20.0-20.5
21							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610680.9
Date Started Drilling: 12/11/2019	Rig Type:	Coordinates (NJSPNAD83) y: 682587.0
Date Finished Drilling: 12/12/2019	Core Size:	Boring Total Depth: 20 ft
Logged By: TI	Project Manager:	Depth to Water:
Physical Location: 10W-PDI-2019		Surface Elevation: 14.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0		FILL		Concrete	
2			dry	FILL		fine to medium SAND, little fill debris (glass, bricks), (7.5YR 4/2) brown, medium dense, dry to moist, no odor, no staining	10W-K35A-0.5-1.0
3			dry	FILL		medium to coarse SAND, some coarse gravel, little fill debris, (7.5YR 4/2) brown, medium dense, dry to moist, no odor, no staining	10W-K35A-2.0-2.5
4				FILL		fine to medium SAND, some coarse gravel, trace COPR nodules, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining	
5			dry	FILL		Concrete	
6						fine to coarse SAND, some coarse gravel, little fill debris (glass fragments), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist, no odor, no staining	10W-K35A-4.0-4.5
7	2.5	0		NR		NO RECOVERY	
8			moist	FILL		fine to coarse SAND, some coarse gravel, little fill debris (glass fragments), (2.5Y 5/1) gray, medium dense, moist, no odor, no staining	10W-K35A-6.0-6.5
9				NR		NO RECOVERY	10W-K35A-8.0-8.5
10	0.5	0					
11							
12			wet	FILL		fine to coarse SAND, some coarse gravel, trace fill debris, (7.5YR 2.5/2) very dark brown, loose, wet, no odor, no staining	10W-K35A-12.0-12.5
13				NR		NO RECOVERY	
14							
15	4	0					
16			wet	FILL		fine to coarse SAND, some ash, (2.5Y 4/1) dark gray, medium dense, wet, no odor, no staining	10W-K35A-16.0-16.5
17							10W-K35A-17.5-18.0
18			moist	OL		fine to medium sandy SILT, trace organic fibers, (2.5Y 3/1) very dark gray, soft, moist, slight organic odor, no staining	10W-K35A-18.0-18.5
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:

PPG - 2012-09 RA PPG LOGS A.GDT - 3/28/22 18:44



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 10W-K44A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610576.3
Date Started Drilling: 5/12/2014 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682348.9
Date Finished Drilling: 5/12/2014 1:00:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, little fine to medium gravel, trace concrete, (10YR 3/3) dark brown, dry, no odor, no staining.	10W-K44A-0.5-1.0
2							
3							10W-K44A-2.5-3.0
4							
5	5	0.0	moist	FILL		fine to medium silty SAND, with cinders, ash, little wood debris, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	10W-K44A-4.5-5.0
6							
7							10W-K44A-6.5-7.0
8							
9	5	54.9	wet to saturated	FILL		fine to medium silty SAND, with cinders, (10YR 3/1) very dark gray, medium dense, wet to saturated, moderate hydrocarbon odor, hydrocarbon staining, sheen, water table at 10 ft bgs.	10W-K44A-8.5-9.0
10							
11							10W-K44A-9.5-10.0
12							
13	5	35.0	wet	FILL		fine to medium silty SAND, some cinders, (10YR 4/1) dark gray, medium dense, wet, slight hydrocarbon odor, hydrocarbon staining, sheen.	10W-K44A-10.5-11.0
14		0.0	moist	FILL			
15							10W-K44A-12.5-13.0
16							
17	5					sandy SILT, trace debris, (10YR 3/3) dark brown, low plasticity, soft, moist, no odor, no staining.	10W-K44A-14.5-15.0
18							
19							10W-K44A-16.5-17.0
20							
21	5	0.0	moist to wet moist	FILL		SILT, trace debris, (10R 4/2) weak red, low plasticity, soft, moist to wet, no odor, no staining.	10W-K44A-18.5-19.0
22							
23							10W-K44A-20.5-21.0
24							
25	5	0.0	moist	SM		UNDno SILT, (7.5YR 4/2) brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	10W-K44A-21.0-21.5
26							
27							
28							
29	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
30							
31							
32							

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

PPG - PPG LOGS.GDT - 8/11/14 15:52



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Boring ID: 10W-K45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610566.1
Date Started Drilling: 5/12/2014 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682316.2
Date Finished Drilling: 5/12/2014 12:20:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.6 ft NAVD88

(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	wet	FILL		fine to medium SAND, little stones, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining. fine to medium SAND, some cinders, ash, medium dense, dry, no odor, no staining.	10W-K45A-0.5-1.0
		0.0	dry	FILL			
2	5						10W-K45A-2.5-3.0
3							
4							
5							10W-K45A-4.5-5.0
6	5	0.0	moist	FILL		fine to medium silty SAND, with cinders, ash, (10YR 4/1) dark gray, soft, moist, no odor, no staining. sandy SILT, little to trace cinders, ash, (7.5YR 6/3) light brown, soft, moist to wet, no odor, no staining, water table at 6.2 ft bgs.	10W-K45A-5.7-6.2
7		0.0	moist to wet	FILL			10W-K45A-6.5-7.0
8		97.5	wet	FILL		sandy SILT, some cinders, ash, (10YR 4/1) dark gray, soft to loose, wet, moderate hydrocarbon odor, no staining.	
9							10W-K45A-8.5-9.0
10	5						10W-K45A-9.5-10.0
11		11.7	saturated	FILL		CINDERS, with silty sand, (7.5YR 2.5/1) black, loose, saturated, slight hydrocarbon odor, hydrocarbon staining. sandy SILT, some to little cinders, trace debris, (10YR 3/3) dark brown, soft, moist, slight hydrocarbon odor, no staining.	10W-K45A-10.5-11.0
12		14.1	moist	FILL			
13							10W-K45A-12.5-13.0
14	5						
15							10W-K45A-14.5-15.0
16		0.0	wet	FILL		SILT, little fine sand, little to trace clay, trace glass, (7.5YR 2.5/1) black, soft, wet, no odor, no staining.	
17							10W-K45A-16.5-17.0
18	5						
19							10W-K45A-18.5-19.0
20							10W-K45A-19.5-20.0
21		0.0	moist	FILL		SILT, trace debris, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	10W-K45A-20.5-21.0
22	5	0.0	moist	PT			10W-K45A-21.0-21.5
23						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, firm, moist, moderate organic odor, no staining. Soils consistent with MM.	10W-K45A-21.5-22.0
		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR	

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

PPG - PPG LOGS.GDT - 8/11/14 16:37



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Boring ID: 10W-L37A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610697.2
Date Started Drilling: 5/21/2014 12:45:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682503.2
Date Finished Drilling: 5/21/2014 1:50:00 PM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.0 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, some fine to coarse gravel, little glass, trace brick, (7.5YR 3/2) dark brown, dense, dry, no odor, no staining.	10W-L37A-0.5-1.0
2							
3							10W-L37A-2.5-3.0
4							
5	5	0.0	sl. moist to wet	FILL		fine to coarse SAND, with ash, cinders, little wood debris, trace glass, (10YR 3/1) very dark gray, medium dense to loose, slightly moist to wet, no odor, no staining.	10W-L37A-4.5-5.0
6							
7							10W-L37A-5.0-5.5
8							
9	5					CINDERS, and ash, with fine to medium silty sand, little wood debris, wet to saturated, no odor, no staining.	10W-L37A-6.5-7.0
10							
11							10W-L37A-8.5-9.0
12							
13	5	0.0	wet to saturated	FILL		CINDERS, and ash, with fine to medium silty sand, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-L37A-10.5-11.0
14							
15							10W-L37A-12.5-13.0
16							
17	5	0.0	wet	FILL		CINDERS, and ash, some silty sand, trace glass, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-L37A-14.5-15.0
18							
19							10W-L37A-16.5-17.0
20							
21	5	0.0	wet	FILL		sandy SILT, some organics, trace brick fragments, (7.5YR 3/4) dark brown, low plasticity, soft, wet, no odor, no staining. Appears to be disturbed native material.	10W-L37A-18.5-19.0
22							
23							
24							
25	5	0.0	wet	FILL		sandy SILT, with coarse gravel, some debris, (5YR 4/3) reddish brown, low plasticity, loose, wet, no odor, no staining.	10W-L37A-20.0-20.5
26							
27							10W-L37A-20.5-21.0
28							
29	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
30							
31							
32							

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

PPG - PPG LOGS.GDT - 8/11/14 16:37



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Boring ID: 10W-L39A

Page: 1

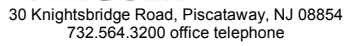
Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610668.6
Date Started Drilling: 5/19/2014 12:10:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682450.1
Date Finished Drilling: 5/19/2014 1:25:00 PM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.0 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, little ash, trace crushed concrete, trace brick, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining.	10W-L39A-0.5-1.0
2							
3							10W-L39A-2.5-3.0
4							10W-L39A-4.5-5.0
5	4	0.0	slightly moist	FILL		fine to medium SAND, little fine to medium gravel, trace debris, (7.5YR 2.5/2) very dark brown, loose, slightly moist, no odor, no staining.	10W-L39A-6.0-6.5
6							
7		0.0	wet	FILL		CINDERS, some fine to medium sand, little ash, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining, water table encountered at a depth of 6.5 ft bgs.	10W-L39A-6.5-7.0
8							
9				NR		NO RECOVERY	10W-L39A-8.5-9.0
10	5	0.0	moist to wet	FILL		CINDERS, with fine to coarse sand, (7.5YR 2.5/3) very dark brown, loose, moist to wet, no odor, no staining.	10W-L39A-10.5-11.0
11							
12							10W-L39A-12.5-13.0
13							10W-L39A-14.5-15.0
14	4	0.0	wet	FILL		fine to medium SAND, and cinders, little medium gravel, trace wood fragments, (7.5YR 3/1) very dark gray, loose, wet, slight hydrocarbon odor, no staining.	10W-L39A-16.5-17.0
15							
16							10W-L39A-18.5-19.0
17							
18				NR		NO RECOVERY	
19	5	8.1	moist to wet	FILL		fine to medium SAND, trace coarse gravel, (7.5YR 2.5/1) black, loose, moist to wet, slight hydrocarbon odor, hydrocarbon staining.	10W-L39A-20.5-21.0
20							
21							10W-L39A-22.0-22.5
22							
23		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	10W-L39A-22.5-23.0

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

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Boring ID: 10W-L41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610640.6
Date Started Drilling: 5/20/2014 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682396.8
Date Finished Drilling: 5/20/2014 11:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry to sl. moist	FILL		fine to medium SAND, some fine to medium gravel, little crushed concrete, little ash, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining.	10W-L41A-1.0-1.5
2							
3							10W-L41A-3.0-3.5
4							
5	5	0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little debris, (7.5YR 3/2) dark brown, loose, dry, no odor, no staining, water table encountered at a depth of 7.0 ft bgs.	10W-L41A-5.0-5.5
6							10W-L41A-6.5-7.0
7							10W-L41A-7.0-7.5
8							
9							10W-L41A-9.0-9.5
10	4	0.0	dry to moist	FILL		fine to medium SAND, little ash, little medium gravel, trace glass fragments, (7.5YR 2.5/3) very dark brown, loose, dry to moist, no odor, no staining.	10W-L41A-11.0-11.5
11							
12							10W-L41A-13.0-13.5
13							
14				NR		NO RECOVERY	
15	5	0.0	wet to saturated	FILL		CINDERS, and fine to medium sand, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining.	10W-L41A-15.0-15.5
16							
17							10W-L41A-17.0-17.5
18							
19							10W-L41A-19.0-19.5
20	5	0.0	wet	FILL		CINDERS, and fine to medium sand, trace debris, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	
21							10W-L41A-21.0-21.5
22		0.0					10W-L41A-21.5-22.0
23		0.0					
				OL		UNDorg SILT, 70% organic fibers, 30% organic silt, (7.5YR 3/2) dark brown, low plasticity, medium stiff, dry to slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
				PT			
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, stiff, dry,	

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

PPG - PPG LOGS.GDT - 8/11/14 16:37



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 10W-L43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610614.5
Date Started Drilling: 5/13/2014 12:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682343.2
Date Finished Drilling: 5/13/2014 1:20:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 11.6 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry to wet	FILL		fine to medium SAND, little fine to medium gravel, little to trace ash, trace wood debris, (10YR 4/2) dark grayish brown, medium dense, dry to wet, water table at 5.0 ft bgs.	10W-L43A-0.5-1.0
2							
3							10W-L43A-2.5-3.0
4							
5	4	0.0	wet	FILL		ASH, some cinders, little silty sand, trace wood debris, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	10W-L43A-4.5-5.0
6							
7							10W-L43A-6.5-7.0
8							
9	5		wet to saturated	NR		NO RECOVERY	10W-L43A-8.5-9.0
10							
11		0.0		FILL		ASH, and cinders, trace debris, (10YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining.	10W-L43A-10.0-10.5
12							10W-L43A-10.5-11.0
13	5	0.0	moist	FILL		sandy SILT, trace ash, glass, (10YR 5/2) grayish brown, low plasticity, soft, moist, no odor, no staining.	10W-L43A-12.5-13.0
14							
15		0.0		OL		UNDorg SILT, 60% organic silt, 40% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	10W-L43A-14.0-14.5
16							10W-L43A-14.5-15.0
17	5	0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
18							
19		0.0		OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 6/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
20							

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

PPG - PPG_LOGS.GDT - 8/11/14 16:37







30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 10W-M45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610616.2
Date Started Drilling: 5/28/2014 12:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682283.7
Date Finished Drilling: 5/28/2014 12:40:00 PM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		Elevation: 11.4 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT		ASPHALT	10W-M45A-1.0-1.5
2		0.0		FILL		fine to medium SAND, some ash, little crushed concrete, trace brick, trace debris, (7.5YR 2.5/2) very dark brown, loose, dry, no odor, no staining.	
3							10W-M45A-3.0-3.5
4							
5	5	0.0	wet	FILL		fine to medium SAND, and cinders, little fine to medium gravel, (10YR 4/2) dark grayish brown, loose, wet, no odor, no staining, water table encountered at 5.5 ft bgs. Sheen observed from 6.5 ft bgs to 8.0 ft bgs.	10W-M45A-5.0-5.5
6							10W-M45A-7.0-7.5
7							
8		0.0	wet to saturated	FILL		fine to medium SAND, little fine gravel, trace debris, (7.5YR 6/3) light brown, loose, wet to saturated, no odor, no staining.	10W-M45A-9.0-9.5
9	5						
10		0.0	wet	FILL		ASH, some debris, little fine to medium sand, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	10W-M45A-11.0-11.5
11							
12		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	10W-M45A-11.5-12.0
13	5						
14		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
15		0.0	dry	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, 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/GGM present in any interval of this boring.




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Test Pit ID: 10W-P3BS-5+04-3R

Page: 1

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60580814	Drilling Method: Soft dig	Coordinates (NJSPNAD83) x: 610641.35
Date Started Drilling: 5/19/2022	Rig Type:	Coordinates (NJSPNAD83) y: 682667.91
Date Finished Drilling: 5/18/2022	Core Size:	Boring Total Depth: 4.6 ft
Logged By: Alan Buob	Project Manager: Aimee Ruiter	Depth to Water:
Physical Location:		Surface Elevation: 14.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
—						Soil Not Logged	
1							
2							
3							
4			dry	FILL		Silty sand (SM), coarse, poorly graded, subangular, 25-35% silt, brick, cobbles, ceramics and Ash, 20-30% roots, Trace metal, No CCPW [FILL] - 10R 4/8 (red), dry - no odour, no staining - non-cohesive, loose	10W-P3BS-5+04-3R-4.1-4.6

Notes:

bgs - below surface grade
MM - meadow mat


COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60580814	Drilling Method: Soft dig	Coordinates (NJSPNAD83) x: 610679.2
Date Started Drilling: 5/19/2022	Rig Type:	Coordinates (NJSPNAD83) y: 682660.59
Date Finished Drilling: 5/18/2022	Core Size:	Boring Total Depth: 4.6 ft
Logged By: Alan Buob	Project Manager: Aimee Ruiter	Depth to Water:
Physical Location:		Surface Elevation: 13.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1						Soil Not Logged	
2							
3							
4			wet	FILL		Silty sand (SM), fine to medium, poorly graded, subangular, 25-35% silt and cobbles, 20-30% roots and ceramics, No CCPW [FILL] - 10YR 2/1 (black), wet - no odour, no staining - non-cohesive, loose to medium dense	10W-P3BS-5+15-40R-4.1-4.6

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60635148	Drilling Method:	Coordinates (NJSPNAD83) x: 610666.58
Date Started Drilling: 6/28/2021	Rig Type:	Coordinates (NJSPNAD83) y: 682508.7
Date Finished Drilling: 6/28/2021	Core Size: Test Pit (within Excavation)	Boring Total Depth: 21.1 ft
Logged By:	Project Manager: Cameron Dixon	Depth to Water:
Physical Location:		Surface Elevation: 15.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1						Soil Excavated. Test pit begins on 9.1 ft bgs	
2							
3							
4							
5							
6							
7							
8							
9							
10		0	dry	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% angular, medium to coarse gravel, glass and Ash, No CCPW [FILL] - 10YR 2/2 (very dark brown / dusky yellowish brown), dry - no odour, no staining - non-cohesive, loose to loose	10W-P3BS-K38A-EX-9.1-9.6
11		0	dry	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, glass and Ash, No CCPW, metal, and plastic debris [FILL] - 10YR 4/3 (brown), dry - no odour, no staining - non-cohesive, loose	10W-P3BS-K38A-EX-11.1-11.6
12							
13		0	wet	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, glass and Ash, 5-15% peat, No CCPW, metal, and plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff	10W-P3BS-K38A-EX-13.1-13.6
14							
15		0.2	wet	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, glass and Ash, 5-15% peat, No CCPW, metal, and plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff	10W-P3BS-K38A-EX-15.1-15.6
16							
17		0.2	wet	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, glass and Ash, 5-15% peat, No CCPW, metal, and plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff	10W-P3BS-K38A-EX-17.1-17.6
18							
19		0.3	wet	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, glass and Ash, 5-15% peat, No CCPW, metal, and plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff	10W-P3BS-K38A-EX-19.1-19.6
20							
21		0.2	wet	SM		Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, peat, glass and Ash, No CCPW, metal, and	10W-P3BS-K38A-EX-20.6-21.1

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


Comments:


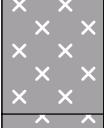
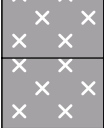
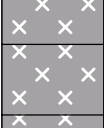
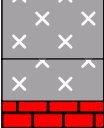
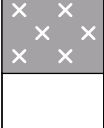

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60635148	Drilling Method:	Coordinates (NJSPNAD83) x: 610666.58
Date Started Drilling: 6/28/2021	Rig Type:	Coordinates (NJSPNAD83) y: 682508.7
Date Finished Drilling: 6/28/2021	Core Size: Test Pit (within Excavation)	Boring Total Depth: 21.1 ft
Logged By:	Project Manager: Cameron Dixon	Depth to Water:
Physical Location:		Surface Elevation: 15.1 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
						<div> plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff Silty sand with gravel (SM), fine to medium, poorly graded, subangular, 15-25% silt, 25-35% subangular, fine to medium gravel, peat, glass and Ash, No CCPW, metal, and plastic debris [FILL] - 10YR 2/1 (black), wet - organics odour, no staining - cohesive, soft to medium stiff </div>	


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

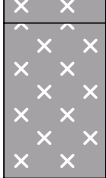
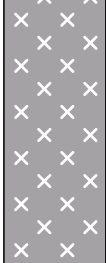
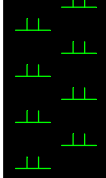
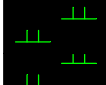
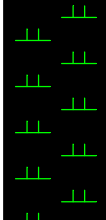
Comments:

		Client: PPG Industries		BORING ID: 133-B6	
		Site: Site 133			
Start Date: 12/7/2006		Project: Site Investigation		Page: 1 of 4	
		Coordinates: X-610753.2 Y-682262.7		Depth of Boring: 36.00	
End Date: 12/13/2006		Elevation: 10.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters


0		ASPHALT: Street level ASPHALT	1.2 ppm	133-B6A (0.7-1.2)	Cr+6, TAL Metals
		FILL: Gray medium COBBLES and coarse GRAVEL.			
		FILL: Black fine SAND, some fine Gravel, little Coal pieces.	0.0 ppm	133-B6B (2.1-2.6)	Cr+6, TAL Metals
2		FILL: Dark Gray medium-sized COBBLES, some fine Black Sand.			
		FILL: Black fine GRAVEL, some fine Sand and Ash, little Woody Organic material.	1.4 ppm	133-B6C (3.1-3.6)	Cr+6, TAL Metals
		FILL: BRICK, some Black medium Sand.			
4		FILL: Black medium GRAVEL, some Fill Material (ash, brick fragments, fine gravel-sized slag, ceramics).	1.7 ppm	133-B6D (4.2-4.7)	Cr+6, TAL Metals
		FILL: Blocky, medium cobble-sized SLAG			
		FILL: Green-gray SILT and CLAY, some fine to coarse Gravel, wet.	0.0 ppm		
		FILL: Dark Brown (7.5YR 4/2) silty CLAY, little fine to medium Sand and small angular Gravel, medium stiff, wet. No odor.			
6		BRICK: Whole Brick layer	0.0 ppm		
		FILL: Dark Brown (7.5YR 4/2) and Brown (7.5YR 4/3) fine to coarse silty SAND, little small angular Gravel, Fill Material (shells, coal fragments), medium dense, moist. No odor.			
8		NR: No Recovery	N/A	133-B6E (8.0-8.5)	Cr+6, TAL Metals
		FILL: Gray (7.5YR 5/1) small angular GRAVEL, some Silt, Fill Material (ash, ceramics, coal, brick), loose, wet. No odor.			

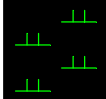
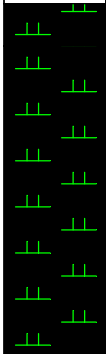

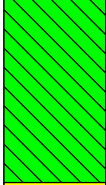
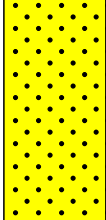
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries	BORING ID: 133-B6		
		Site: Site 133			
Start Date: 12/7/2006		Project: Site Investigation		Page: 2 of 4	
		Coordinates: X-610753.2 Y-682262.7		Depth of Boring: 36.00	
End Date: 12/13/2006		Elevation:		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

10		FILL: Reddish Brown (2.5YR 5/3) SILT, trace angular Gravel, medium dense, moist. No odor.	N/A		
		NR: No Recovery			
12		FILL: Reddish Brown (5YR 4/3) clayey SILT, little coarse Sand, loose, wet. No odor.	N/A	133-B6F (12.0-13.0)	Cr+6, TAL Metals
				133-B6FD (12.0-13.0)	Cr+6, TAL Metals
14		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	N/A	133-B6G (13.9-14.4)	Cr+6, TAL Metals
		NR: No Recovery			
16		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.	N/A		
		PEAT: Very Dark Gray (Gley N3/) organic CLAY, little Organics, medium stiff, moist. Sulfur odor.			
18				133-B6H (18.0-18.5)	Cr+6, TAL Metals

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

		Client: PPG Industries	BORING ID: 133-B6		
		Site: Site 133			
Start Date: 12/7/2006		Project: Site Investigation	Page: 3 of 4		
		Coordinates: X-610753.2 Y-682262.7	Depth of Boring: 36.00		
End Date: 12/13/2006		Elevation:	Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

20		NR: No Recovery	N/A		
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.			
22		PEAT: Very Dark Gray (Gley N3/) organic CLAY, trace Organics, medium stiff, moist. Sulfur odor.		133-B6I (22.0-22.5)	Cr+6, TAL Metals
		SAND: Gray (Gley N5/) very fine SAND, some Silt, medium stiff, moist. No odor.			
24		NR: No Recovery			
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.			
26		PEAT: Very Dark Gray (Gley N3/) organic CLAY, trace Organics, medium stiff, moist. Sulfur odor.		133-B6J (24.5-25.0)	Cr+6, TAL Metals
		CLAY: Light Greenish Gray (Gley 5GY 7/1) silty CLAY, trace small angular Gravel, medium stiff, moist. No odor.			
		SAND: Weak Red (10R 4/2) fine to coarse SAND, little Silt, loose, wet. No odor.			

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

Client: PPG Industries

Site: Site 133

BORING ID:

133-B6

Start Date:
12/7/2006

Project: Site Investigation

Page: 4 of 4

Coordinates: X-610753.2 Y-682262.7

Depth of Boring: 36.00

End Date:
12/13/2006

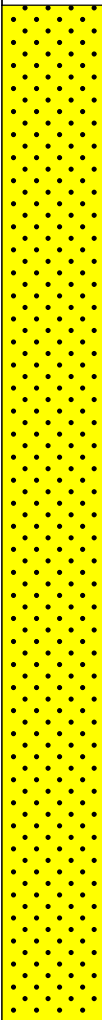
Elevation:

Geologist: P. Kelly, M. Merdinger


Drill Subcontractor: Eichelberger/Terra Probe Incorporated



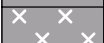









Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters
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28		NR: No Recovery	N/A		
		SAND: Weak Red (10R 4/2) fine to coarse SAND, trace small rounded Gravel, trace Silt, (28.6-28.8 ft bgs GRAVEL) loose, wet. No odor.			
30					
32			N/A		
34					
36		NR: No Recovery			
		NULL: End of Boring at 36 ft.			

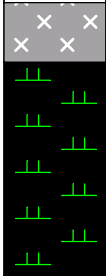
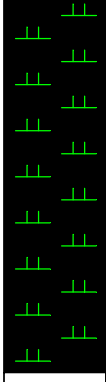
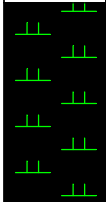
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries		BORING ID: 133-B7	
		Site: Site 133			
Start Date: 12/7/2006		Project: Site Investigation		Page: 1 of 3	
		Coordinates: X-610689.1 Y-682200.0		Depth of Boring: 32.00	
End Date: 12/13/2006		Elevation: 10.5 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters


0		ASPHALT: Street level ASPHALT	1.5 ppm		
		FILL: Gray coarse GRAVEL		133-B7A (0.8-1.3)	Cr+6, TAL Metals
		FILL: Black coarse SAND, some fine Gravel, little medium Gravel and Coal pieces.			
2		BRICK: Whole Brick layer	118.0 ppm	133-B7B (2.3-2.8)	Cr+6, TAL Metals
		FILL: Black coarse SAND, some Ash, Green-gray fine Sand lenses. Heavy petroleum odor.			
					
4			138.0 ppm	133-B7C (4.5-5.0)	Cr+6, TAL Metals
		FILL: Black coarse SAND, some coarse Gravel, Fill Material (wood, ceramics), loose, wet. Heavy petroleum odor.			
					
6		FILL: Brown (10YR 5/3) SILT, trace Clay, Fill Material (ash, ceramics, weathered stones, gravel-mix), wet. No odor.	N/A		
		NR: No Recovery			
8		FILL: Brown (10YR 5/3) SILT, trace Clay, Fill Material (ash, ceramics, weathered stones, gravel-mix), wet. No odor.		133-B7D (8.5-9.5)	MS/MSD, Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/3) very fine to fine silty SAND, little small angular Gravel, mottling to a Dark Brown, loose, wet. No odor.			
10					
		NR: No Recovery			

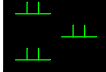
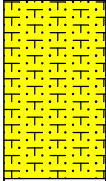
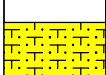
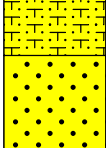
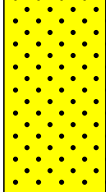

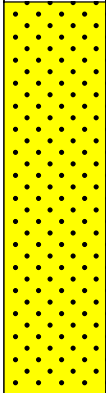

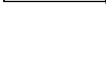
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries	BORING ID: 133-B7		
		Site: Site 133			
Start Date: 12/7/2006		Project: Site Investigation		Page: 2 of 3	
		Coordinates: X-610689.1 Y-682200.0		Depth of Boring: 32.00	
End Date: 12/13/2006		Elevation:		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: Eichelberger/Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters


12		FILL: Reddish Brown (5YR 4/3) very fine to fine silty SAND, little small angular Gravel, mottling to a Dark Brown, loose, wet. No odor.	N/A	133-B7E (12.5-13.0)	Cr+6, TAL Metals
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.			
14		NR: No Recovery			
16		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, medium stiff, moist. Sulfur odor.	N/A	133-B7F (16.5-17.0)	Cr+6, TAL Metals
18					
20		NR: No Recovery	N/A	133-B7G (20.5-21.0)	Cr+6, TAL Metals
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little to trace Organics/Peat, medium stiff, moist. Sulfur odor.			


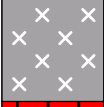


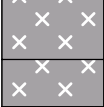

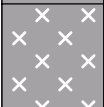


NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries	BORING ID: 133-B7		
		Site: Site 133			
Start Date: 12/7/2006	Project: Site Investigation		Page: 3 of 3		
	Coordinates: X-610689.1 Y-682200.0		Depth of Boring: 32.00		
End Date: 12/13/2006	Elevation:		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					
		SILTY SAND: Dark Gray (5YR 4/1) very fine to fine silty SAND, little to trace small rounded Gravel and Silt, loose, wet. No odor.		133-B7H (22.3-22.8)	Cr+6, TAL Metals
24		NR: No Recovery	N/A		
		SILTY SAND: Dark Gray (5YR 4/1) and Dark Greenish Gray (Gley 5GY 4/1) mottled, very fine to fine silty SAND, little to trace small rounded Gravel and Silt, medium dense, dry. No odor.			
26		SAND: Reddish Brown (2.5YR 4/3) fine to coarse SAND, little to trace small rounded Gravel and Silt, loose, wet. No odor.			
		NR: No Recovery			
28		SAND: Reddish Brown (2.5YR 4/3) very fine to fine SAND, little Silt, loose, wet. No odor.	N/A		
30					
		NR: No Recovery			
32		NULL: End of Boring at 32 ft.			





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

		Client: PPG Industries		BORING ID: 133-B8		
		Site: Site 133				
Start Date: 1/5/2007		Project: Site Investigation		Page: 1 of 2		
		Coordinates: X-610752.7 Y-682193.6		Depth of Boring: 16.00		
End Date: 1/5/2007		Elevation: 12.1 ft NAVD88		Geologist: M. Merdinger		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: Concrete floor			
		FILL: Black TOPSOIL and Fill SAND, Fill Material (ceramics, plastic), loose, moist. No odor.		133-B8A (0.7-1.2)	Cr+6, TAL Metals
		BRICK: Brick and Concrete pieces.			
2		FILL: Dark Brown (7.5YR 3/3) SILT and fine FILL (glass, ceramic, brick, concrete, coal), loose, dry. No odor.			
		NR: No Sample			
4		FILL: Dark Brown (7.5YR 3/3) SILT and fine FILL (glass, ceramic, brick, concrete, coal), loose, dry. No odor.	0.0 ppm		
		FILL: Black-stained SILT and GLASS			
		FILL: Dark Brown (7.5YR 3/2) SILT, trace Clay, Fill Material (gravel, brick), loose, moist. No odor.	4.0 ppm	133-B8B (5.0-6.0)	MS/MSD, Cr+6, TAL Metals
6		FILL: Very Dark Gray (10R 3/1) to Black SILT, some very fine Sand, some fine Fill Material (ash, shell, brick, glass), Coal tar, loose, wet. Naphthalene and paint thinner odor.	9.0 ppm		
		NR: No Recovery			
8		FILL: Very Dark Gray (10R 3/1) to Black SILT, some	0.0 ppm		

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

		Client: PPG Industries		BORING ID: 133-B8		
		Site: Site 133				
Start Date: 1/5/2007		Project: Site Investigation		Page: 2 of 2		
		Coordinates: X-610752.7 Y-682193.6		Depth of Boring: 16.00		
End Date: 1/5/2007		Elevation:		Geologist: M. Merdinger		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters

10		very fine Sand, some fine Fill Material (ash, shell, brick, glass), Coal tar, loose, wet. Naphthalene and paint thinner odor.	7.5 ppm	133-B8C (9.0-10.0)	Cr+6, TAL Metals
		FILL: Olive Brown (2.5Y 4/3) and Weak Red (10R 4/4) mottled SILT and very fine SAND, little Clay, medium dense, moist. No odor.		133-B8CD (9.0-10.0)	Cr+6, TAL Metals
12		FILL: Grayish Brown (2.5Y 5/2) SILT and ASH, some fine Fill Material (gravel, shells, rubber, sand), loose, wet. No odor.	3.5 ppm		
		FILL: No Recovery			
14		FILL: Grayish Brown (2.5Y 5/2) SILT and ASH, some fine Fill Material (gravel, shells, rubber, sand), loose, wet. No odor.	N/A		
		FILL: Dark Gray (2.5Y 4/1) very fine sandy SILT, trace fine Gravel, loose, wet. No odor.			
		FILL: Gray (2.5Y 5/1) SILT and crushed CONCRETE, little to trace Sand, loose, wet. No odor.		133-B8D (13.0-13.5)	Cr+6, TAL Metals
		PEAT: PEAT (Meadow Mat), some Organics, moist, medium stiff. Sulfur odor.		133-B8E (13.5-14.0)	Cr+6, TAL Metals
16		NR: No Recovery			
		NULL: End of Boring at 16 ft.			




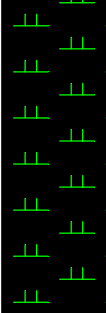

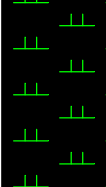

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B19
	Site: Site 133	
Start Date: 12/7/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-610791.5 Y-682367.7	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation: 11.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Street level ASPHALT	30.0 ppm		
		FILL: Gray medium GRAVEL Rock (Sub-surface Macadam), dry.		133-B19A (0.9-1.4)	Cr+6, TAL Metals
		FILL: Red-brown fine gravel-sized COPR (50%), some fine Sand, dry.			
2					
		FILL: Gray-green SILT cohesive lenses, little Slag and fine Gravel, moist.	26.1 ppm	133-B19B (3.2-3.7)	Cr+6, TAL Metals
4		FILL: Dark Reddish Gray (5YR 4/1) SILT and GRAVEL, Fill Material (brick, concrete, coal, ceramics), little medium to coarse Sand, Bright Green staining, 1% COPR, wet. No odor. (WASTE MUD)	0.0 ppm		
		FILL: Reddish Brown (5YR 4/3) SILT, trace Clay and coarse Sand, wet. No odor.	0.0 ppm	133-B19D (4.5-5.0)	Cr+6, TAL Metals
6		NR: No Recovery			
8		FILL: Black SILT and medium GRAVEL, Fill Material (wood, coal), wet. No odor.	0.1 ppm		
		FILL: Red (2.5YR 4/6) SILT, little very fine to fine Sand, trace angular Gravel, Fill Material (ceramics, metal machine parts), wet. No odor.	0.2 ppm	133-B19E (8.5-9.5)	MS/MSD, Cr+6, TAL Metals
10		FILL: Pale Red (2.5YR 6/2) SILT, some medium to coarse Sand, yellow staining, loose, wet. No odor. (WASTE MUD)			
		FILL: Red (2.5YR 4/6) SILT, little very fine to fine Sand, trace small angular Gravel, Wood, wet. No odor.			

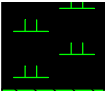

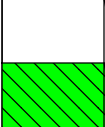
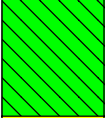
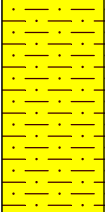

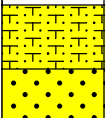
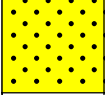
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div>ENSR AECOM</div>	Client: PPG Industries	BORING ID: 133-B19
	Site: Site 133	
Start Date: 12/7/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		NR: No Recovery	0.2 ppm		
		FILL: Black, Red-brown, White, Yellow, and Brown crushed COAL and CERAMICS, trace Silt, loose, wet. No odor.			
		FILL: Weak Red (2.5YR 4/2) SILTY CLAY, trace Wood Material, semi-firm, wet. No odor.		133-B19F (13.1-13.6)	Cr+6, TAL Metals
14		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	0.3 ppm		
		NR: No Recovery			
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor.		133-B19G (17.0-17.5)	Cr+6, TAL Metals
16			0.3 ppm		
18			2.6 ppm		
		NR: No Recovery			
20		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor.	25.0 ppm		
			47.0 ppm	133-B19H (21.0-21.5)	Cr+6, TAL Metals
			21.0 ppm		
22					

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


<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B19
	Site: Site 133	
Start Date: 12/7/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
24		CLAY: Dark Greenish Gray (Gley 5GY 4/1) SILTY CLAY, trace very fine Sand, Micaceous, firm, wet. Sulfur odor.	12.0 ppm	133-B19I (23.0-23.5)	Cr+6, TAL Metals
		NR: No Recovery	20.3 ppm		
		CLAY: Dark Greenish Gray (Gley 5GY 4/1) SILTY CLAY, trace very fine Sand, Micaceous, loose, wet. Sulfur odor.	16.1 ppm		
26		SILT: Dark Grayish Brown (10YR 4/2) SILT, little to trace Clay, trace Organics, very firm, moist. Sulfur odor.	5.7 ppm		
		NR: No Recovery	1.3 ppm		
28		SILTY SAND: Gray (10YR 5/1) very fine SILTY SAND, firm, moist. No odor.	0.2 ppm		
		SAND: Weak Red (10R 4/4) fine SAND, trace Pebbles and Silt, semi-firm, wet. No odor.	0.0 ppm		
30		NR: No Recovery			
32	NULL: End of Boring at 32 ft.				

NOTES:

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

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B20
	Site: Site 133	
Start Date: 12/11/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X-610835.8 Y-682412.2	Depth of Boring: 32.00
End Date: 12/18/2006	Elevation: 11.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0		ASPHALT: Street level ASPHALT			
		FILL: Black coarse GRAVEL, some Silt and fine Sand, dry.	138.0 ppm	133-B20A (0.7-1.2)	Cr+6, TAL Metals
		FILL: Black cohesive ORGANICS, some fine Gravel, dry. Strong odor.	300.0 ppm	133-B20B (1.5-2.4)	Cr+6, TAL Metals
2		FILL: Black fine gravel-sized COPR (75%), little Orange Clay. Petroleum odor.	325.0 ppm		
		FILL: Red-brown fine SAND, some fine to coarse Gravel, little fine gravel-sized COPR (12%).		133-B20C (2.9-3.4)	Cr+6, TAL Metals
		FILL: Black fine SAND, some Clay, little fine to coarse Gravel and medium gravel-sized Slag.	13.5 ppm	133-B20D (3.5-4.0)	MS/MSD, Cr+6, TAL Metals
4		FILL: Black fine SAND, little Clay and Silt, little coarse medium Gravel, 20% COPR, wet. Slight naphthalene odor.			
		NR: No Recovery			
6					
8		FILL: Black SILT, little Clay, trace fine Sand, loose, wet. Impacted with Coal Tar. Naphthalene odor.	9.1 ppm	133-B20E (8.0-9.0)	Cr+6, TAL Metals
				133-B20ED (8.0-9.0)	Cr+6, TAL Metals
		FILL: Black medium to coarse SAND, some small coarse Gravel, little Silt and Clay, sheen, wet. Impacted with Coal Tar. Naphthalene odor.	13.4 ppm		
10			18.7 ppm	133-B20F (10.0-10.5)	Cr+6, TAL Metals
		NR: No Recovery			

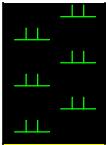
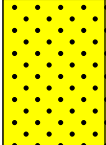
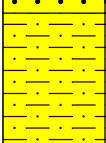
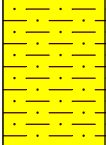
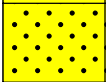
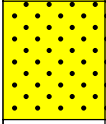


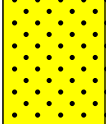
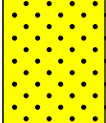
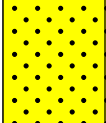
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B20
	Site: Site 133	
Start Date: 12/11/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/18/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		FILL: Dark Grayish Brown (10YR 4/2) SILT and CLAY, firm, moist. Naphthalene odor.	0.4 ppm	133-B20G (11.1-11.6)	Cr+6, TAL Metals
14		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	0.1 ppm	133-B20H (13.0-14.0)	MS/MSD, Cr+6, TAL Metals
			0.3 ppm		
16		NR: No Recovery	0.2 ppm		
18		PEAT: Very Dark Gray (10YR 4/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor.	0.2 ppm	133-B20I (17.0-17.5)	Cr+6, TAL Metals
			1.8 ppm		
20		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	1.9 ppm	133-B20J (18.8-19.3)	Cr+6, TAL Metals
		NR: No Recovery			
		PEAT: Dark Gray (10YR 4/1) organic CLAY, little Organic/Peat material, firm, moist. Sulfur odor.	0.2 ppm		





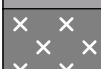

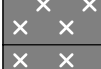
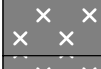

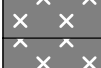


NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B20
	Site: Site 133	
Start Date: 12/11/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/18/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
22			12.5 ppm		
		SAND: Dark Greenish Gray (5GY 4/1) very fine SAND, some Silt, loose, wet. Sulfur odor.	0.3 ppm		
24		SILT: Dark Greenish Gray (5GY 4/1) SILT, some Clay, loose to firm, wet to moist. No odor.	8.7 ppm		
			3.6 ppm		
26		SAND: Greenish Gray (5GY 5/1) very fine to medium SAND, some Silt, loose, wet. No odor.	7.4 ppm		
		SAND: Weak Red (10R 4/4) medium to coarse SAND, some Clay, trace Silt, wet. No odor.	0.0 ppm		
		NR: No Recovery	0.0 ppm		
28		SAND: Weak Red (10R 4/4) medium to coarse SAND, some Clay, trace Silt, wet. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/4) fine to coarse SAND, trace Silt, loose, wet. No odor.	0.0 ppm		
30			0.0 ppm		
			0.0 ppm		
32		NULL: End of Boring at 32 ft.			

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

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B21
	Site: Site 133	
Start Date: 12/8/2006	Project: Site Investigation	Page: 1 of 3
	Coordinates: X- 610722.7 Y-682342.9	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation: 11.8 ft NAVD88	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters		
0		TOPSOIL: Black Topsoil, dry.	553.0 ppm	133-B21A (1.0-1.5)	Cr+6, TAL Metals		
		CONCRETE: Concrete Pad.					
		FILL: Dark Brown fine GRAVEL, some coarse Gravel and coarse Sand, dry. Strong petroleum odor.					
2		CONCRETE: Concrete Pad.	846.0 ppm	133-B21B (2.1-2.6)	Cr+6, TAL Metals		
		FILL: Black fine SAND, some fine to coarse Gravel, dry. Strong petroleum odor.					
							
4		FILL: Gray to Black-stained fine GRAVEL, some woody Organics, medium Sand and Silt, dry. Strong petroleum odor.	654.0 ppm	133-B21C(4.5-5.0) 133-B21CD(4.5-5.0)	Cr+6, TAL Metals Cr+6, TAL Metals		
		FILL: Reddish Gray (5YR 5/2) SILT and GRAVEL, Fill Material, Bright Green staining, 10% COPR, wet. No odor. (WASTE MUD)	5.0 ppm				
			8.2 ppm				
6		NR: No Recovery	4.5 ppm	133-B21D (8.5-9.0)	Cr+6, TAL Metals		
8		FILL: Black SILT and WOOD, Fill Materail, little medium to coarse Sand, wet. No odor.	0.1 ppm	133-B21D (8.5-9.0)	Cr+6, TAL Metals		
		FILL: Dark Brown (7.5YR 3/2) SILT, some very fine Sand, Fill Material (wood, brick, slag, rock fragments), little medium semi-round Gravel, wet. No odor.	0.9 ppm				
							
10		FILL: Dark Brown (7.5YR 3/3) SILTY SAND, crushed Fill Material (brick, ceramics, shells), wet. No odor.					
		NR: No Recovery					

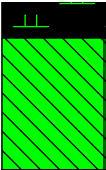
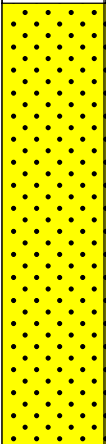
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B21
	Site: Site 133	
Start Date: 12/8/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		FILL: Crushed FILL Material (ceramics, ash, wood, paper stained Red-brown and Green, little silt), wet. No odor.	1.4 ppm		
		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	0.9 ppm	133-B21E (12.4-13.4)	Cr+6, TAL Metals
14			0.6 ppm		
		NR: No Recovery			
16		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, trace Silt, semi-firm, wet. Sulfur odor.	0.1 ppm		
			0.2 ppm	133-B21F (16.5-17.0)	Cr+6, TAL Metals
18			0.1 ppm		
			0.2 ppm		
20		NR: No Recovery			
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor.	0.6 ppm		
			12.3 ppm	133-B21G (20.5-21.0)	Cr+6, TAL Metals

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

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B21
	Site: Site 133	
Start Date: 12/8/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/15/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
22		CLAY: Greenish Gray (Gley 5GY 5/1) SILTY CLAY, trace very fine Sand, semi-firm, wet. Sulfur odor.	47.5 ppm	133-B21H (22.0-22.5)	Cr+6, TAL Metals
		NR: No Recovery	10.3 ppm		
24		NR: No Sample taken - Broken acetate liner. Visually: Gray Silty Sand and Red-brown coarse to medium Sand.	N/A		
26					
28		SAND: Weak Red (10R 4/4) fine to medium SAND, trace Silt and Pebbles, wet. No odor.	0.3 ppm		
			0.4 ppm		
30			1.3 ppm		
			3.0 ppm		
		NR: No Recovery			
32		NULL: End of Boring at 32 ft.			

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

ENSR AECOM	Client: PPG Industries		BORING ID: 133-B22
	Site: Site 133		
Start Date: 12/8/2006	Project: Site Investigation		Page: 1 of 3
	Coordinates: X-610706.6 Y-682414.3		Depth of Boring: 32.00
End Date: 12/18/2006	Elevation: 12.3 ft NAVD88		Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI		Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
0	x x x x x x x x x x x x x x x	FILL: Black SILT, some fine to coarse Gravel, dry.	0.0 ppm	133-B22A (0.0-0.5)	Cr+6, TAL Metals
			2.8 ppm		
2	x x x x x x x x x x x x x x x	FILL: Red-brown fine gravel-sized COPR (50%), some Silt, little Rootlets, wet.		133-B22B (2.0-2.5)	Cr+6, TAL Metals
			150.0 ppm		
4	x x x x x x x x x x x x x x x	FILL: Gray to Black-stained SILT, some fine to medium Gravel, sheen, wet. Strong petroleum odor.		133-B22C (4.0-4.5)	Cr+6, TAL Metals
			23.4 ppm		
6	x x x x x x x x x x x x x x x	FILL: Dark Grayish Brown (10YR 4/2) to Black-stained SILT and small jagged GRAVEL, some fine Sand, Fill Material (shells, ash, slag, wood), loose, wet. Impacted with Coal Tar. Oil odor.			
			27.9 ppm		
	x x x x x x x x x x x x x x x	FILL: Brown (7.5YR 4/2) SILT, some Clay, little small jagged Gravel, trace fine Sand, 5% COPR, slight Yellow staining, loose, wet. Odor.			
			6.2 ppm		
	x x x x x x x x x x x x x x x	FILL: Grayish Brown (2.5Y 5/2) SILT and jagged GRAVEL, Bright Green staining, 10% COPR, moist. No odor. (WASTE MUD)			
			0.7 ppm	133-B22D (8.0-8.5)	Cr+6, TAL Metals
8		NR: No Recovery			
	x x x x x x x x x x x x x x x	FILL: Grayish Brown (2.5Y 5/2) SILT and jagged GRAVEL, Bright Green staining, 10% COPR, moist. No odor. (WASTE MUD)			
			0.5 ppm		
10		A-3: Dark Gray (Gley N4/0) SILT and COAL, little fine to medium Sand, Fill Material (ceramics, coal, ash), loose, sheen, wet. Naphthalene odor.			
		NR: No Recovery	0.5 ppm		

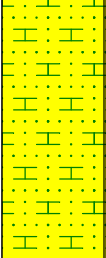

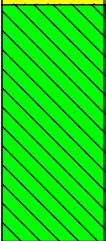
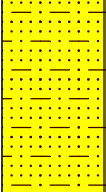
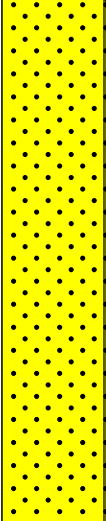
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B22
	Site: Site 133	
Start Date: 12/8/2006	Project: Site Investigation	Page: 2 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/18/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
12		FILL: Very Dark Gray (5YR 3/1) SILT, some Clay, semi-firm, moist. No odor.	7.6 ppm	133-B22E (12.0-12.5)	MS/MSD, Cr+6, TAL Metals
		FILL: Pinkish Gray (5YR 6/2) ASH and jagged GRAVEL, some Silt, trace Clay, Fill Material (ceramics, coal, brick), wet. No odor.	0.6 ppm	133-B22F (13.2-13.7)	Cr+6, TAL Metals
14		PEAT: Dark Grayish Brown (2.5Y 4/2) organic CLAY, little Organics/Peat, firm, moist. No odor.	0.3 ppm		
		NR: No Recovery			
16		PEAT: Dark Grayish Brown (2.5Y 4/2) organic CLAY, little Organics/Peat, firm, moist. Sulfur odor.	0.1 ppm		
		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	5.6 ppm	133-B22G (17.0-17.5)	Cr+6, TAL Metals
18			13.8 ppm		
		NR: No Recovery	15.3 ppm		
20		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	6.4 ppm		
			56.3 ppm		

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

<div> <div>ENSR</div> <div>AECOM</div> </div>	Client: PPG Industries	BORING ID: 133-B22
	Site: Site 133	
Start Date: 12/8/2006	Project: Site Investigation	Page: 3 of 3
	Coordinates: X- Y-	Depth of Boring: 32.00
End Date: 12/18/2006	Elevation:	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller:

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
22		SILT AND CLAY: Gray (Gley N5/0) SILT and CLAY, fiem, moist. Slight sulfur odor.	15.3 ppm	133-B22H (21.7-22.3)	Cr+6, TAL Metals
			8.6 ppm		
24		NR: No Recovery	0.7 ppm		
		SILT AND CLAY: Gray (Gley N5/0) SILT and CLAY, fiem, moist. Slight sulfur odor.	1.3 ppm		
		CLAY: Dark Grayish Brown (10YR 4/2) CLAY, some to little Silt, trace Organics, firm, moist. Slight sulfur odor.	6.6 ppm		
26		SAND AND SILT: Gray (Gley N5/0) very fine SILT and SAND, little to trace Clay, trace small angular Gravel, wet. No odor.	0.2 ppm		
		NR: No Recovery	0.1 ppm		
28		SAND: Dark Reddish Brown (2.5YR 3/4) fine SAND, little Silt, wet. No odor.	0.1 ppm		
			0.1 ppm		
30			0.1 ppm		
			0.1 ppm		
32		NULL: End of Boring at 32 ft.			






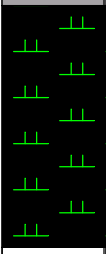
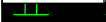
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR AECOM		Client: PPG Industries		BORING ID: 133-B23		
		Site: Site 133				
Start Date: 12/8/2006		Project: Site Investigation		Page: 1 of 4		
		Coordinates: X-610752.5 Y-682464.7		Depth of Boring: 36.00		
End Date: 12/14/2006		Elevation: 12.3 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI		Driller:		
Depth (ft)	Lithology	Description		PID	Sample ID	Sample Parameters

0		ASPHALT: Street level ASPHALT			
		FILL: Gray coarse GRAVEL	30.5 ppm	133-B23A (0.5-1.0)	Cr+6, TAL Metals
		FILL: Dark Brown-red fine gravel-sized COPR (50%), some Clay and Silt, little medium Gravel, wet.			
2					
		FILL: Gray-green SILT lenses, some coarse Gravel, little Glass shards, wet.	28.4 ppm	133-B23B (3.2-3.7)	Cr+6, TAL Metals
4		FILL: Dark Reddish Gray (5YR 4/2) fine SANDY SILT, some Clay, little coarse Sand, 20% COPR, loose, wet. Slight petroleum odor.			
		FILL: Black TOPSOIL, organic-rich, slight Yellow-Green staining, loose, moist. Petroleum odor.	101.0 ppm		
6			124.0 ppm	133-B23C (6.0-6.5)	Cr+6, TAL Metals
		NR: No Recovery			
8		FILL: Black coarse SAND and coarse GRAVEL, Wood, sheen, wet. Impacted with Coal Tar. Naphthalene odor.	0.5 ppm		
			2.3 ppm		
		FILL: Very Dark Grayish Brown (10YR 3/2) very fine SILTY SAND, trace small Gravel, wet. Naphthalene odor.		133-B23D(9.5-10.0) 133-B23DD(9.5-10.0)	Cr+6, TAL Metals Cr+6, TAL Metals
10					

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

<div>ENSR AECOM</div>		Client: PPG Industries			BORING ID: 133-B23		
		Site: Site 133					
Start Date: 12/8/2006		Project: Site Investigation			Page: 2 of 4		
		Coordinates: X- Y-			Depth of Boring: 36.00		
End Date: 12/14/2006		Elevation:			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller:		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

12			32.5 ppm		
		NR: No Recovery			
		FILL: Very Dark Grayish Brown (10YR 3/2) very fine SILTY SAND, trace small Gravel, trace Clay, loose, wet. Naphthalene odor.	0.8 ppm		
			0.1 ppm		
		FILL: Black SILT and fine SAND, trace Shell Material, wet. No odor.	0.3 ppm	133-B23E (14.0-14.5)	Cr+6, TAL Metals
		FILL: Dark Reddish Brown (5YR 3/2) SILTY CLAY, semi-firm, wet. No odor.			
		NR: No Recovery			
		FILL: Very Dark Gray (7.5YR 3/1) SILTY CLAY, some very fine Sand, trace coarse Sand, wet. No odor.	0.0 ppm		
			0.0 ppm		
		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	134.0 ppm	133-B23F (17.5-18.0)	Cr+6, TAL Metals
20		NR: No Recovery			
			93.0 ppm		

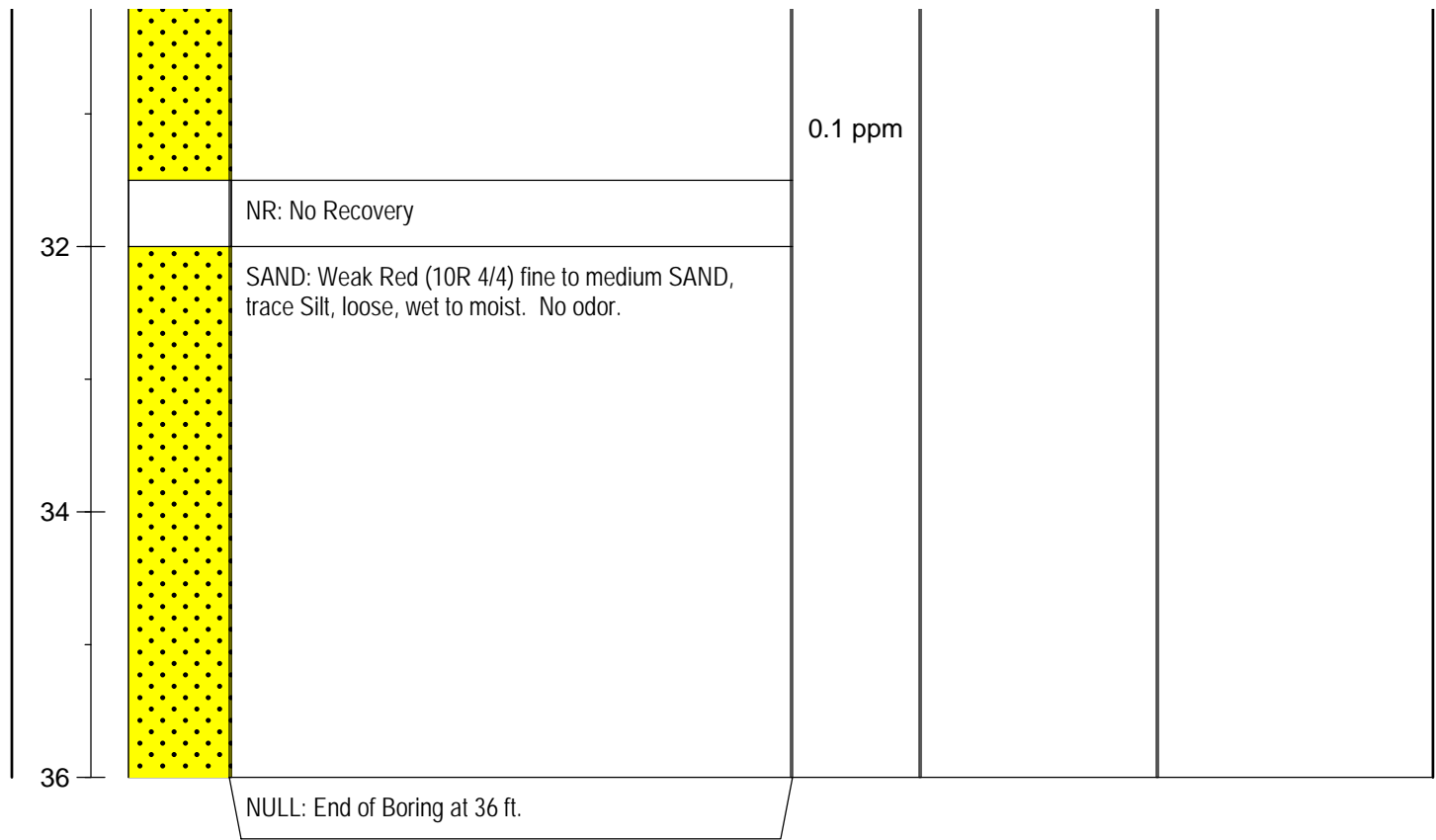
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 133-B23		
		Site: Site 133				
Start Date: 12/8/2006		Project: Site Investigation		Page: 3 of 4		
		Coordinates: X- Y-		Depth of Boring: 36.00		
End Date: 12/14/2006		Elevation:		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI		Driller:		
Depth (ft)	Lithology	Description		PID	Sample ID	Sample Parameters

22		PEAT: PEAT (Meadow Mat), some Organics, moist, firm. Sulfur odor.	297.0 ppm	133-B23G (21.2-21.7)	Cr+6, TAL Metals
		PEAT: Very Dark Gray (Gley N3/0) organic CLAY, some Organics/Peat, firm, moist. Sulfur odor.	117.0 ppm		
24		SILT: Greenish Gray (Gley 5GY 5/1) SILT, trace fine Sand and fine rounded Gravel, firm, wet. No odor.	101.0 ppm	133-B23H (24.0-24.5)	Cr+6, TAL Metals
			33.4 ppm		
26		SAND: Greenish Gray (Gley 5GY 5/1) fine SAND, some Silt, loose, wet. No odor.	14.2 ppm		
		SAND: Weak Red (10R 4/4) very fine to coarse SAND, little Silt, trace fine rounded Gravel, loose, wet. No odor.	0.3 ppm		
28		NR: No Recovery	0.1 ppm		
		SAND: Weak Red (10R 4/4) fine to medium SAND, trace Silt, loose, wet to moist. No odor.	0.1 ppm		
30			0.0 ppm		

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

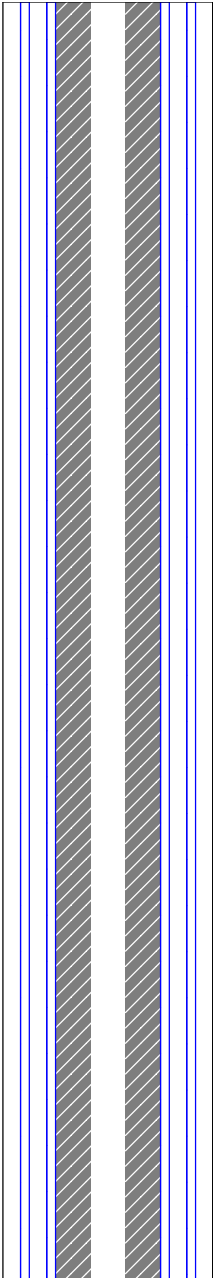

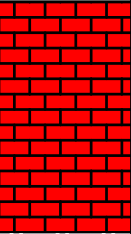

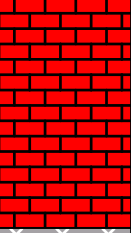

ENSR AECOM		Client: PPG Industries		BORING ID: 133-B23	
		Site: Site 133			
Start Date: 12/8/2006		Project: Site Investigation		Page: 4 of 4	
		Coordinates: X- Y-		Depth of Boring: 36.00	
End Date: 12/14/2006		Elevation:		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller:	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters



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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation:** 11.9 ft NAVD88**State Plane Coordinates:** X: 610670.8 Y: 682283.1**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****133-MW1C**

Page: 1 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings	0.0			Very Dark Brown (10YR 2/2) medium to fine SAND, little medium to fine Gravel, trace organics, plastic, moist, loose. No odor.
1		133-1CA (1.0-2.0) Cr+6, TAL Metals	0.0			
2						Soft Dig refusal on brick foundation. No sample, augered through.
3						
4		133-1CB (4.0-4.5) Cr+6, TAL Metals	N/A	50/2		Very Dark Gray (5YR 3/1) SILT, some coarse Sand (Fill Sand), crushed Fill Material (brick), trace organics, wet, loose. Diesel fuel odor. Refusal on Brick.
5			N/A	1		No Recovery
6				3		
7				4		
8				10		
9		133-1CC (9.0-10.0) Cr+6, TAL Metals 133-1CCD (9.0-10.0) Cr+6, TAL Metals	N/A	N/A		Brick foundation. No sample, augered through.
10						Gray (5Y 5/1) SILT, trace coarse to fine Sand interbedded with Ash and crushed Fill Material (C/D), moist to wet, loose. Black water in sample. No odor.
11				6		No Recovery
				6		Gray (5Y 5/1) SILT, trace coarse to fine Sand interbedded with Ash and crushed Fill Material

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary

ENSR | AECOM

133-MW1C

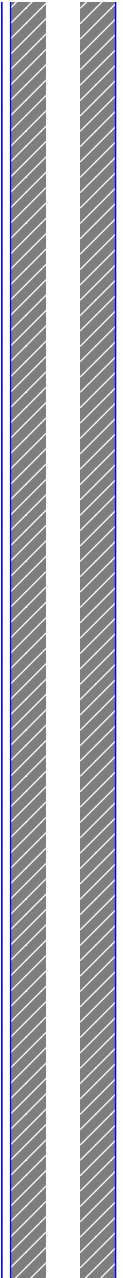
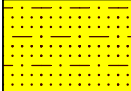
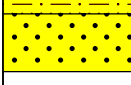

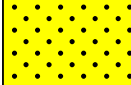
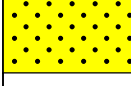




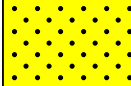

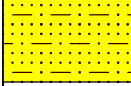

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
12			N/A	3		(C/D), moist to wet, very loose. Black water in sample. No odor.
				4		No Recovery
				5		No Recovery
				4		No Recovery
13		133-1CD (13.0-14.0) MS/MSD, Cr+6, TAL Metals	N/A	1		Dark Gray (Gley1 4N/0) PEAT, organics, cohesive, very soft, moist. No odor.
				2		
				1		
				2		No Recovery
15		133-1CE (15.0-15.5) Cr+6, TAL Metals	N/A	2		Dark Gray (Gley1 4N/0) PEAT, trace organics, cohesive, very soft, moist. Slight sulfur odor.
				2		
				2		
				2		No Recovery
17		133-1CF (17.0-18.0) MS/MSD, Cr+6, TAL Metals	0.0	WH		Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor.
				1		
18			0.0	1		No Recovery
				1		No Recovery
19		133-1CG (19.0-20.0) Cr+6, TAL Metals	0.0	2		Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor.
		133-1CGD (19.0-20.0) Cr+6, TAL Metals		1		
20			0.0	1		No Recovery
				1		No Recovery
21		133-1CH (21.0-21.5) Cr+6, TAL Metals	0.0	1		Dark Gray (Gley 4N/0) organic CLAY, little Silt, trace organics and shells, moist, cohesive, very soft. No odor.
				2		No Recovery

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****133-MW1C**

Page: 3 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
23		133-1CI (23.0-23.5) Cr+6, TAL Metals	0.0	2		
				3		
24			0.0	8		Gray (Gley1 5N/0) very fine SAND and SILT, trace Clay and medium rounded Gravel, wet, medium dense. No odor.
25			0.0	13		
				14		Weak Red (10R 4/3) very fine SAND, some Silt, trace Clay and fine to medium round Gravel, wet, medium dense. No odor.
				12		
26			0.0	3		No Recovery
				2		Weak Red (10R 4/3) coarse to fine graded SAND, trace rounded fine Gravel and Silt, wet, very loose. No odor.
			0.0	2		
27		133-1CJ (27.0-27.8) Cr+6, TAL Metals	0.0	3		No Recovery
		133-1CJD (27.0-27.8) Cr+6, TAL Metals		6		Weak Red (10R 4/3) medium to coarse SAND, some Silt, little fine to medium rounded Gravel, loose, wet. No odor.
28			0.0	7		
				5		No Recovery
				6		
29			0.0	6		Weak Red (10R 4/3) coarse to fine graded SAND, some to little Silt, little medium to coarse rounded Gravel, wet, loose. No odor.
30			0.0	6		
				5		
31		133-1CK (31.0-31.5) MS/MSD, Cr+6, TAL Metals	0.0	7		No Recovery
				6		Weak Red (10R 4/3) medium to fine SAND and SILT, trace fine to medium rounded Gravel, wet, loose. No odor.
32			0.0	5		
				6		No Recovery
				6		
33			0.0	6		

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****133-MW1C**

Page: 4 of 7

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
34				5		Weak Red (10R 4/3) fine SAND and SILT, wet, loose. No odor.
			0.0	6		
35				6		No Recovery
			0.0	2		Weak Red (10R 4/3) fine SAND and SILT, wet, very loose. No odor.
				4		
36			0.0	4		Weak Red (10R 4/4) SILT, some very fine Sand, wet, loose. No odor.
				5		No Recovery
37			0.0	4		Weak Red (10R 4/4) SILT, little very fine Sand, wet, very loose. No odor.
				1		No Recovery
38				3		
				4		
39			N/A	6		Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose. No odor.
				5		
40				6		
				7		No Recovery
41			0.0	8		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor.
				6		
42			0.0	7		No Recovery
				9		
43			0.0	7		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor.
				6		
44			0.0	7		

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****133-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
45			0.0	7		No Recovery
46			0.0	4		Weak Red (10R 4/4) SILT, little to trace very fine Sand, wet, loose. No odor.
47			0.0	5		
48			0.0	6		No Recovery
49			0.0	8		
50			0.0	8		Weak Red (10R 4/4) SILT, wet, loose. No odor.
51			0.0	7		
52			0.0	8		No Recovery
53			0.0	7		Weak Red (10R 4/4) SILT, wet, loose. No odor.
54			0.0	7		
55			0.0	8		No Recovery
			0.0	7		Weak Red (10R 4/4) SILT, trace to none very fine Sand, wet, loose. No odor.
			0.0	6		
			0.0	6		No Recovery
			0.0	7		
			0.0	7		Weak Red (10R 4/4) SILT, wet, loose. No odor.
			0.0	8		
			0.0	7		Weak Red (10R 5/4) SILT and little interbedded Silty Clay, loose, wet. No odor.
			0.0	5		No Recovery
			0.0	6		Weak Red (10R 4/4) SILT, wet, loose. No odor.

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****133-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
56				5		Dark Gray (5YR 4/1) CLAY, some Silt, with trace interbedded Weak Red (10R 5/4) Silt, moist, cohesive, medium. No odor.
			0.0	6		
57				7		No Recovery
			0.0	3		Dark Gray (5YR 4/1) CLAY and Weak Red (10R 5/4) SILT, interbedded, firm, cohesive, soft. No odor.
				4		
58			0.0	4		
				4		
59			0.0	4		
				7		
60			0.0	6		Reddish Brown (2.5YR 4/3) interbedded Silty CLAY and SILT, cohesive, medium, moist. No odor.
				5		
61			0.0	3		
				3		
62			0.0	5		
				4		
63			0.0	6		
				6		
64			0.0	6		Gray (5Y 5/1) CLAY, interbedded with trace Weak Red (10R 5/4) Silt and very fine Sand, cohesive, medium, moist. No odor.
				6		
65			0.0	3		Gray (5Y 5/1) CLAY, interbedded with some Weak Red (10R 5/4) Silt and very fine Sand, cohesive, soft, moist. No odor.
				4		
66			0.0	6		

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

Client: PPG Industries**Site:** Site 133**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/26/2007**Elevation****State Plane Coordinates** X: 682282.8 Y: 610670.5**Drilling Method:** HSA/Mud Rotary

ENSR | AECOM

133-MW1C

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
67		#00 Sand Seal	0.0	6		No Recovery
68				7		Gray (5Y 5/1) CLAY, interbedded with some Weak Red (10R 5/4) Silt and very fine Sand, cohesive, medium, moist. No odor.
69				9		
70				27		Weak Red (10R 5/4) SILT, interbedded with Clayey SILT, loose, moist. No odor.
71				13		Weak Red (10R 5/4) SILT, some fine to coarse sub-angular Gravel, little Silt, trace Clay, wet, medium dense. No odor.
72				14		No Recovery
73				14		Weak Red (10R 5/4) SILT, some fine to coarse Sand and fine to coarse sub-angular Gravel, wet, medium dense. No odor.
74				13		No Recovery
75				12		Weak Red (10R 5/4) SILT, some fine to coarse Sand and fine to coarse sub-angular Gravel, wet, medium dense. No odor.
76				12		No Recovery
77				13		Weak Red (10R 5/4) SILT, some fine to coarse Sand and fine to coarse sub-angular Gravel, wet, medium dense. No odor.
				11		No Recovery
				10		No Recovery
				12		No Recovery
				10		No Recovery
				11		No Recovery
				13		No Recovery
				35		Weak Red (10R 5/4) SILT, some fine to coarse sub-angular Gravel, little cobble-sized Rocks, trace fine Sand, moist, dense to very dense. No odor.
				30		
				50/3		
				NULL		No Recovery
						Refusal at 77 ft.

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610732.9
Date Started Drilling: 7/10/2013 1:17:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682494.4
Date Finished Drilling: 7/10/2013 2:20:00 PM	Core Size: 3 in	Boring Total Depth: 17 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - M37A		Elevation: 11.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		fine silty SAND, some concrete fragments, (10YR 4/4) dark yellowish brown, non plastic, medium dense, dry to slightly moist.	
2		0.0	slightly moist	FILL		fine silty SAND, some fine cinders, little gravel, trace COPR, (10YR 3/3) dark brown, non plastic, loose, slightly moist.	
3	1.3	0.0	slightly moist	FILL		fine CINDERS, little silty sand, (10YR 2/1) black, non plastic, loose, slightly moist.	
4		0.0	slightly moist	FILL		CINDERS, some ash, little fine silty sand, (10YR 5/2) grayish brown, non plastic, medium dense, slightly moist, strong petroleum odor, sheen.	
5	2	33.4	moist	FILL		NO RECOVERY	
6						COPR, little fine to medium sand, (2.5YR 3/2) dusky red, non plastic, loose, moist, slight petroleum odor, sheen.	
7	1.3	25.8	moist	FILL		fine CINDERS, little GGM, trace gravel, (5Y 4/2) olive gray, non plastic, loose, moist, slight petroleum odor, sheen.	
8				NR		NO RECOVERY	
9	2	0.0	moist to wet	FILL		fine silty SAND, little cinders, trace coal, (10YR 2/2) very dark brown, non plastic, loose, moist to wet.	133-P3B-M37A-8.5-9.0
10		0.0	moist	FILL		fine silty SAND, some fine cinders, (10YR 2/2) very dark brown, non plastic, loose, moist	
11	1.7	0.0	moist	FILL		fine silty SAND, little fine gravel, trace roots, (10YR 3/3) dark brown, non plastic, loose, moist	133-P3B-M37A-10.5-11.0
12		0.0	moist to wet	NR		NO RECOVERY	
13	0.6			FILL		fine to medium silty SAND, some cinders, little fine gravel, (10YR 2/1) black, non plastic, loose, moist to wet.	133-P3B-M37A-12.0-12.5
14				NR		NO RECOVERY	
15	2	0.0	moist to wet	FILL		SILT, with fine sand, little cinders, trace roots, fine gravel, (10YR 2/1) black, non plastic, soft, moist to wet.	133-P3B-M37A-14.0-14.5
16		1.2	moist	OL		SILT, 80% organic silt, 20% organic fibers, medium plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M37A-15.0-15.5
17	1	2.1	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M37A-15.5-16.0

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 133-P3B-M38A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610719.4
Date Started Drilling: 7/2/2013 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682467.6
Date Finished Drilling: 7/2/2013 1:50:00 PM	Core Size: 3 in	Boring Total Depth: 19 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - M38A		Elevation: 12.3 ft NAVD88

(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	moist	FILL		fine to medium SAND, some COPR, trace brick, cinders, ash, coarse gravel, (7.5YR 5/6) strong brown, non plastic, loose, moist, no odor, no staining.	
2		0.0	moist	FILL		COPR, some fine to medium sand, little fine to medium gravel, (2.5YR 3/6) dark red, non plastic, loose, slightly moist, no odor, no staining.	
3	1.4	0.0	moist	FILL		fine silty SAND, little ash, little wood fragments, trace fine gravel, (10YR 5/2) grayish brown, non plastic, loose to soft, moist, no odor, no staining.	
4				NR			
5	1.7	0.0	moist	FILL		COPR, some fine to medium sand, little fine to medium gravel, (2.5YR 3/6) dark red, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-M38A-4.5-5.0
6				NR		NO RECOVERY	
7	2	0.0	moist	FILL		fine silty SAND, some ash, little fine to medium gravel, trace coal, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist, no odor, no staining.	133-P3B-M38A-6.5-7.0
8				NR		NO RECOVERY	
9	1.3	0.0	moist	FILL		medium SAND, with fine to coarse gravel, some ash, little coal, (10YR 4/6) dark yellowish brown, non plastic, loose, moist, no odor, no staining.	133-P3B-M38A-8.5-9.0
10				NR		NO RECOVERY	
11	1.2	0.0	moist	FILL		ASH, some fine silty sand, some cinders, coal, wood fragments, little fine to coarse gravel, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist, no odor, no staining.	133-P3B-M38A-10.5-11.0
12				NR		NO RECOVERY	
13	2	0.0	moist	FILL		fine silty SAND, some roots, little fill material, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining.	133-P3B-M38A-12.5-13.0
14				NR		NO RECOVERY	
15	2	0.0	moist	FILL		fine silty SAND, some roots, little fill material, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining.	133-P3B-M38A-14.5-15.0
16				NR		NO RECOVERY	
17	2	0.0	moist	FILL		fine sandy SILT, some roots, little fill material, (7.5YR 4/4) brown, non plastic, soft, moist, no odor, no staining.	133-P3B-M38A-16.0-16.5
18				NR		NO RECOVERY	
19	1	2.4	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M38A-17.2-17.7
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	

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



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Boring ID: 133-P3B-M39A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610705.9
Date Started Drilling: 7/10/2013 10:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682440.8
Date Finished Drilling: 7/10/2013 11:30:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 133 - M39A		Elevation: 12.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	FILL		fine silty SAND, little brick, trace fine gravel, (5YR 5/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL			
		0.0	slightly moist	CONCRETE		fine to medium silty SAND, with GGM and COPR, (5YR 5/8) yellowish red, non plastic, loose to soft, slightly moist, no odor, no staining.	
		0.0	dry	FILL			
2		0.0	dry	FILL		weathered CONCRETE, green staining.	
3	1.3	0.0	slightly moist	FILL		GGM, little COPR, (5GY 4/4) olive green, low plasticity, soft, dry, no odor, green staining.	
				NR		GGM, little COPR, (5GY 4/4) olive green, low plasticity, soft, dry, no odor, green staining.	
4		0.0	moist	FILL		fine SAND, some cinders, coal, little ash, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
5	2					NO RECOVERY	
6		0.0	moist	FILL		fine to medium silty SAND, some cinders, coal, little fine gravel, wood fragments, (7.5YR 3/3) dark brown, non plastic, loose to soft, moist, no odor, no staining.	
7	2					fine to medium SAND, with cinders, ash, coal, some ceramics, tar-like material, little GGM, (7.5YR 2.5/1) black, non plastic, loose to dense, moist, moderate petroleum odor, green staining.	
8		0.0	moist	FILL		fine to medium SAND, with cinders, ash, coal, little ceramics, tar-like material, (7.5YR 2.5/1) black, non plastic, loose to dense, moist, moderate petroleum odor, sheen.	
9	2	0.0	moist	FILL		GGM, little cinders, trace coarse gravel, (5Y 5/2) olive gray, low plasticity, dense, moist, no odor, green staining.	
10		0.0	moist	FILL		fine to medium SAND, with cinders, some ash, little GGM, (10YR 4/4) dark yellowish brown, moist, no odor, green staining.	133-P3B-M39A-11.0-11.5
11	2	0.0	moist	FILL		ASH, with cinders, coal, some ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3B-M39A-11.0-11.5X
12		0.0	moist	FILL		CINDERS, some ash, coal, little silt, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
13	2	0.0	moist	FILL		fine silty SILT, little cinders, trace ash, roots, (7.5YR 4/2) brown, non plastic, loose to soft, moist, no odor, no staining.	133-P3B-M39A-13.0-13.5
14		0.0	moist	FILL		SILT, some fine sand, trace cinders, ash, (7.5YR 3/4) dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3B-M39A-15.0-15.5
15	2						
16		0.0	moist	FILL		SILT, some fine sand, trace cinders, ash, (7.5YR 3/4) dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3B-M39A-16.5-17.0
17	2	3.1	dry	PT		PEAT (degraded vegetated material), 80% organic silt, 20% organic fibers, (7.5YR 3/3) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M39A-17.0-17.5
18							

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



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Boring ID: 133-P3B-M40A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610692.4
Date Started Drilling: 7/3/2013 10:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682414.0
Date Finished Drilling: 7/3/2013 12:00:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - M40A		Elevation: 13.2 ft NAVD88

(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	moist	FILL		fine silty SAND, some fine to medium gravel, some wood fragments, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	
2	2	0.0	moist	FILL		fine silty SAND, some fine to medium gravel, some wood fragments, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	
3	2	0.0	moist	FILL		fine silty SAND, some fine to medium gravel, some wood fragments, (7.5YR 3/2) dark brown, non plastic, loose to soft, moist, no odor, no staining.	
4	2	3.1	slightly moist	FILL		fine to medium SAND, some coal, cinders, ash, little wood fragments, trace oil like material, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, slight tar odor, no staining.	
5	2	0.0	slightly moist	FILL		fine to medium SAND, some coal, cinders, ash, little wood fragments,, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, slight tar odor, no staining.	
6	2	0.0	slightly moist	FILL		fine to medium SAND, some coal, cinders, ash, little wood fragments,, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, slight tar odor, no staining.	
7	2	0.0	slightly moist	FILL		fine to medium SAND, some coal, cinders, ash, little wood fragments,, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, slight tar odor, no staining.	
8	1.8	0.0	slightly moist	FILL		fine to medium silty SAND, some coal, cinders, ash, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, slight tar odor, no staining.	133-P3B-M40A-9.0-9.5
9	1.3	0.0	slightly moist	NR		NO RECOVERY	
10	1.3	0.0	slightly moist	FILL		fine to medium silty SAND, some coal, cinders, ash, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, slight tar odor, no staining.	133-P3B-M40A-10.5-11.0
11	1.3	0.0	slightly moist	NR		NO RECOVERY	
12	1.7	0.0	slightly moist	FILL		fine to medium silty SAND, some coal, cinders, ash, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, slight tar odor, no staining.	133-P3B-M40A-12.5-13.0
13	1.7	0.0	slightly moist	FILL		fine to medium silty SAND, some coal, cinders, ash, some fine to medium gravel, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, slight tar odor, no staining.	133-P3B-M40A-12.5-13.0
14	2	0.0	moist	NR		sandy SILT, wood fragments, trace roots, (7.5YR 3/2) dark brown, low plasticity soft, moist, no odor, no staining.	133-P3B-M40A-14.5-15.0
15	2	1.2	moist	FILL		NO RECOVERY	
16	2	2.3	dry	PT		SILT, with roots, little wood fragments, little fine sand, (7.5YR 3/2) dark brown, low plasticity, soft, moist, no odor, no staining.	133-P3B-M40A-15.0-15.5
						UNDorg SILT, with 90% organic silt roots, 10% organic fibers, (7.5YR 3/3) dark brown, medium plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.	

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610688.7
Date Started Drilling: 7/18/2013 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682376.8
Date Finished Drilling: 7/18/2013 1:00:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - M41A		Elevation: 13.7 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.6	0.0	dry	FILL		fine to medium SAND, with roots, grass, (7.5YR 4/2) brown, non plastic, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no odor, no staining.	
3	1	0.0	dry	FILL		NO RECOVERY	
4		0.0	slightly moist	FILL		medium to coarse SAND, some coarse gravel, (10YR 6/4) light yellowish brown, non plastic, loose, dry, no odor, no staining.	
5	2	0.0	slightly moist	FILL		fine to medium SAND, with cinders, coal, little medium gravel, (7.5YR 2.5/1) black, non plastic, loose, slightly moist, no odor, no staining.	
6		0.0	slightly moist	FILL		NO RECOVERY	
7	1.2	0.0	slightly moist	FILL		fine silty SAND, with cinders, ash, little fine gravel, (5YR 4/2) dark reddish gray, non plastic, loose to dense, slightly moist, no odor, no staining.	133-P3B-M41A-6.5-7.0
8		0.0	slightly moist	FILL		GGM, with ash, cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity, stiff, slightly moist, no odor, green staining.	
9	1	0.0	moist	FILL		GGM, with ash, cinders, little salt precipitate, (5YR 5/2) reddish gray, low plasticity stiff, slightly moist, no odor, green staining.	133-P3B-M41A-8.5-9.0
10		0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	
11	1.3	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3B-M41A-10.5-11.0
12		0.0	moist	FILL		NO RECOVERY	
13	2	0.0	moist	FILL		ASH, with cinders, coal, some wood fragments, ceramics, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor, no staining.	133-P3B-M41A-12.5-13.0
14		0.0	moist	FILL		SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining.	
15	2	0.0	moist	FILL		SILT, some roots, little clay, (7.5YR 2.5/1) black, medium plasticity, soft, moist to saturated, no odor, no staining.	133-P3B-M41A-14.5-15.0
16		0.0	moist	MH		UNDno SILT, 90% inorganic silt, 10% organic fibers, medium plasticity, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDno.	133-P3B-M41A-15.0-15.5

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



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Boring ID: 133-P3B-M42A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610633.3
Date Started Drilling: 4/11/2014 11:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682360.3
Date Finished Drilling: 4/11/2014 12:05:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - M42A		Elevation: 13.5 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	FILL		fine to medium SAND, some grass, (7.5YR 6/4) light brown, dense, dry, no odor, no staining.	
2		0.0	dry	FILL		crushed CONCRETE, and fine sand, with coarse gravel, (10YR 8/1) white, very dense, dry, no odor, no staining.	133-P3B-M42A-1.0-1.5
3		0.0	dry	FILL		fine to medium SAND, little crushed concrete, fine to medium gravel, (7.5YR 3/1) very dark gray, very dense, dry, no odor, no staining.	133-P3B-M42A-3.0-3.5
4	5						
5		0.0	moist	FILL		fine to medium SAND, little fine to medium gravel, (7.5YR 3/1) very dark gray, dense, moist, no odor, no staining.	133-P3B-M42A-5.0-5.5
6							
7	5						
8		0.0	moist	FILL		fine silty SAND, with cinders, ash, little coarse gravel, medium dense, moist, no odor, no staining.	133-P3B-M42A-7.0-7.5
9							
10	5						
11		0.0	wet	FILL		CINDERS, with ash, some fine sand, little fine to medium gravel, (10YR 5/1) gray, medium dense to loose, wet, no odor, no staining.	133-P3B-M42A-9.0-9.5
12							
13	5						
14		0.0	moist	FILL		SILT, trace fine sand, wood debris, (10YR 5/2) grayish brown, low plasticity, soft, moist, no odor, no staining.	133-P3B-M42A-11.0-11.5
15							
16	5	0.0	wet	FILL		SILT, trace organics, (10YR 4/1) dark gray, low plasticity, very soft, wet, no odor, no staining.	133-P3B-M42A-13.0-13.5
17		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M42A-14.8-15.3
18		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, firm, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M42A-15.3-15.8
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.

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Boring ID: 133-P3B-M43A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610651.4
Date Started Drilling: 4/11/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682332.9
Date Finished Drilling: 4/11/2014 11:02:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - M43A		Elevation: 12.1 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		0.0	dry	FILL		crushed CONCRETE, with fine to coarse gravel, some fine to medium sand, (10YR 5/1) gray, very dense, dry, no odor, no staining.	
3		0.0	dry to moist	FILL		fine to medium SAND, with cinders, ash, little crushed brick, (7.5YR 2.5/1) black, dry to moist, no odor, no staining.	
4	5						
5		0.0	moist	FILL		fine to medium SAND, with cinders, ash, little fine to medium gravel, trace glass, (7.5YR 2.5/1) black, (10YR 4/1) dark gray, loose, moist, no odor, no staining. GGM, and fine to medium sand, little cinders, ash, trace glass, (10YR 5/1) gray, low plasticity, medium dense to loose, moist to wet, no odor, green staining.	
6		0.0	moist to wet	FILL			
7							
8		0.0	moist	FILL		CINDERS, with ash, little slag, fine to medium gravel, (7.5YR 7/1) light gray, medium dense, moist, no odor, no staining.	133-P3B-M43A-8.5-9.0
9		0.0	wet	FILL		fine to medium silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. fine to medium silty SAND, with ash, cinders, little fine to medium gravel, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	
10	5	0.0	wet	FILL			133-P3B-M43A-10.5-11.0
11							
12							
13		0.0	moist	FILL		SILT, trace fine sand, fill material, organics, (7.5YR 3/1) very dark gray, low plasticity, soft, moist, no odor, no staining.	133-P3B-M43A-12.5-13.0
14		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M43A-13.3-13.8
15	5	0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, strong organic odor, no staining. Soils consistent with UNDorg.	
16							
17							
18	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
19							
20							

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












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Boring ID: 133-P3B-M44A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610638.5
Date Started Drilling: 4/11/2014 10:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682306.9
Date Finished Drilling: 4/11/2014 11:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 15 ft
Logged By: FM SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - M44A		Elevation: 11.5 ft NAVD88

(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		CONCRETE		crushed CONCRETE	
		0.0	moist	FILL		medium to coarse gravelly SAND, some silt, trace fill debris, (10YR 3/3) dark brown, loose, moist, no odor, no staining.	133-P3B-M44A-1.0-1.5
		0.0	moist to wet	FILL		fine to medium silty SAND, trace gravel, trace brick fragments, (10YR 5/1) gray, loose, moist to wet, no odor, no staining.	133-P3B-M44A-3.0-3.5
5	5	0.0	moist	FILL		fine to medium silty SAND, trace fill debris, (10YR 4/1) dark gray, loose, moist.	133-P3B-M44A-5.0-5.5
7		0.0	moist	FILL		fine to medium silty SAND, some large brick fragments, some medium gravel, (10YR 5/3) brown, loose, moist.	133-P3B-M44A-7.0-7.5
9		0.0	moist to sl. moist	FILL		fine to medium silty SAND, some fine gravel, loose, moist to slightly moist, no odor, no staining.	133-P3B-M44A-9.0-9.5
11	5	0.0	moist	OL		fine organic SILT, trace fill material with organic fibers, (7.5YR 3/1) very dark gray, low plasticity, medium dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M44A-11.0-11.5
12							133-P3B-M44A-12.0-12.5
13		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3B-M44A-12.5-13.0
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.



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Boring ID: 133-P3B-M45A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610624.5
Date Started Drilling: 4/17/2014 9:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682281.2
Date Finished Drilling: 4/17/2014 10:30:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - M45A		Elevation: 11.4 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	133-P3B-M45A-0.2-0.7
		0.0	dry	FILL		fine SAND, and fine to medium gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, some wood debris, little cinders, fine gravel, trace glass, ash, (7.5YR 3/2) dark brown, medium dense, dry.	
2	5						133-P3B-M45A-2.0-2.5
3							
4							133-P3B-M45A-4.0-4.5
5	3.5	0.0	moist	FILL		fine to medium silty SAND, little glass, trace ash, medium dense, moist, no odor, no staining.	133-P3B-M45A-6.0-6.5
6							
7		0.0	wet	FILL		fine to medium silty SAND, some ash, little cinders, fine to medium gravel, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	
8	1.7						133-P3B-M45A-8.0-8.5
9				NR		NO RECOVERY	
10		0.0	wet	FILL		fine to coarse silty SAND, little ash, trace fine gravel, (7.5YR 3/1) very dark gray, medium dense, wet, no odor, no staining.	133-P3B-M45A-10.2-10.7
11	1.7	0.0	moist to wet	OL		UNDorg SILT, 80% organic fibers, 20% organic silt, very soft, moist to wet, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M45A-10.7-11.2
12				NR		NO RECOVERY	
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.



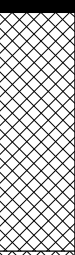
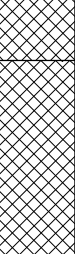
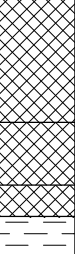



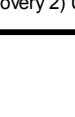
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Boring ID: 133-P3B-M46A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610610.3
Date Started Drilling: 4/17/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682253.0
Date Finished Drilling: 4/17/2014 9:20:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - M46A		Elevation: 12.0 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT		ASPHALT	
2		0.0		FILL		fine to medium SAND, little fine to medium gravel, crushed concrete, trace wood debris, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining.	133-P3B-M46A-1.0-1.5
3							133-P3B-M46A-3.0-3.5
4	5	0.0	moist	FILL		fine to medium silty SAND, some fine gravel, little brick fragments, trace glass, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining.	
5		0.0	moist to wet	FILL		fine to medium silty SAND, some wood debris, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, medium dense, moist to wet, no odor, no staining.	133-P3B-M46A-5.0-5.5
6							133-P3B-M46A-7.0-7.5
7	5						133-P3B-M46A-9.0-9.5
8		0.0	wet	FILL		CINDERS, with fine to medium gravel, some wood debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
9		0.0	wet	FILL		fine to medium silty SAND, some wood debris, (7.5YR 3/2) dark brown, medium dense, wet, no odor, no staining.	133-P3B-M46A-11.0-11.5
10	5	0.0	dry	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, medium stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M46A-11.5-12.0
11							
12							
13	5						
14		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
15		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
16	5						
17							
18							
19	5						
20							
21							

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

PPG - PPG_LOGS.GDT - 6/19/14 10:14



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732.564.3200 office telephone

Boring ID: 133-P3B-N37A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610759.7
Date Started Drilling: 5/17/2013 11:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682480.9
Date Finished Drilling: 5/20/2013 10:40:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - N37A		Elevation: 11.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0 0.0	dry moist	FILL FILL		medium SAND, trace fine gravel, little silt, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor, no staining. COPR, little fine sand and silt, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining.	
2		0.0 0.0		NR FILL		NO RECOVERY COPR, little fine to medium sand and gravel, (5YR 4/2) dark reddish gray, non plastic, loose, wet, no odor, no staining.	
3	2		wet				
4		8.7	moist	FILL		SILT, with fine to medium sand, trace brick fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, slight chemical-like odor.	
5	1.7						
6		0.0 0.0		NR FILL		NO RECOVERY SILT, some sand, trace fill material, (7.5YR 2.5/1) black, non plastic, soft, moist to wet, no odor, no staining.	
7	2		moist				
8		0.0	moist	FILL		SILT, some fine sand, little fine gravel, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	
9	1.5	0.0	dry	CONCRETE		CONCRETE, (5GY 6/2) light grayish green, non plastic, hard, dry, green staining.	133-P3B-N37A-9.0-9.5
10		0.0	moist	FILL		medium silty SAND, trace fine gravel, (7.5YR 2.5/1) black, non plastic, loose to soft, moist, no odor, no staining.	
11	2	33.9	moist	FILL		NO RECOVERY	
12						medium to coarse SAND, trace fine gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist, sheen, with oil-like odor.	133-P3B-N37A-11.0-11.5
13	2	28.6	moist	FILL		medium to coarse SAND, trace fine gravel, (7.5YR 3/1) very dark gray, non plastic, loose, moist, sheen, with oil-like odor.	
14		15.8	moist	FILL		medium to coarse SAND, trace fine to coarse gravel, (7.5YR 3/2) dark brown, non plastic, loose, moist, no odor, slight sheen.	133-P3B-N37A-13.0-13.5
15	1.5	126	wet	FILL		fine to medium CINDERS, little gravel, little fine to coarse sand, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, moderate tar odor, sheen.	
16		11.6	moist	FILL		SILT, some fine to medium sand, little cinders, (10YR 4/2) dark grayish brown, low plasticity, soft, moist to wet, slight tar odor, sheen.	133-P3B-N37A-15.0-15.5
17	2	0.0		NR		NO RECOVERY	
18		6.5	moist	FILL		fine to medium silty SAND, some fine to medium cinders, (10YR 2/1) black, non plastic, loose, moist to wet, moderate tar odor, sheen.	133-P3B-N37A-17.0-17.5
19						fine to medium silty SAND, little roots, (10YR 4/2) dark grayish brown, non plastic, loose, moist.	133-P3B-N37A-17.6-18.1
20	2	3.3 50.8	moist moist	FILL PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt little fine silty sand, (10YR 3/3) dark brown, non plastic, medium dense, moist, moderate sulfur odor. Soils consistent with MM.	133-P3B-N37A-18.1-18.6

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610746.2
Date Started Drilling: 5/17/2013 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682454.1
Date Finished Drilling: 5/17/2013 11:35:00 AM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - N38A		Elevation: 11.5 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0 0.0	dry wet	FILL FILL		fine to medium SAND, little fine gravel, (7.5YR 4/1) dark gray, non plastic loose, dry, no odor, no staining. COPR, trace fine sand, little silt, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining.	
2		4.6	wet	NR FILL		NO RECOVERY COPR, trace fine sand, little silt, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining.	
3	1.6	8.0	moist	FILL NR		fine to medium SAND, and silt, little fine gravel, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
4		0.2	moist	FILL		NO RECOVERY	
5	1.8					medium SAND, with silt, little fine to medium gravel, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	
6		0.0	moist	NR FILL		NO RECOVERY medium SAND, with silt, little fine to medium gravel, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	
7	2	0.0	moist	FILL		medium SAND, with fine to medium gravel and silt, (7.5YR 4/1) dark gray, non plastic, soft to loose, moist, no odor, no staining, some ash.	
8		0.0	wet	FILL		NO RECOVERY	
9	1.7	0.0	moist	FILL		medium SAND, with fine to medium gravel and silt, (7.5YR 4/1) dark gray, non plastic, soft to loose, moist, no odor, no staining, some ash.	
10		0.0	wet	NR FILL		NO RECOVERY medium to coarse SAND, with fine to medium gravel, (10YR 5/3) brown, non plastic, loose, wet, no odor, no staining.	
11	1.9					GGM, some silt, (5GY 5/2) grayish green, non plastic, soft, moist, no odor, green staining.	
12		0.0	moist	NR FILL		NO RECOVERY medium to coarse SAND, trace COPR, little fine gravel, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	
13	2	0.0	moist	FILL		NO RECOVERY	
14		0.0	moist	FILL		medium to coarse SAND, with fine gravel, (10YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	
15	1.4					SILT, little sand and roots, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	
16		0.0	moist	NR		NO RECOVERY	
17	1.8	1.3	moist	PT		medium silty SAND, with roots, trace fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	133-P3B-N38A-16.0-16.5
18				NR		PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3B-N38A-16.5-17.0
						NO RECOVERY	

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

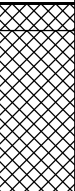
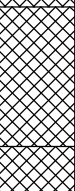
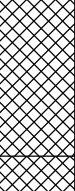

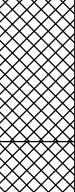
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610732.7
Date Started Drilling: 5/17/2013 8:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682427.3
Date Finished Drilling: 5/17/2013 10:25:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - N39A		Elevation: 10.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.6	0.0	dry	FILL		fine to medium SAND, with fine gravel and glass fragments, (10YR 3/6) dark yellowish brown, non plastic, loose, dry, no odor, no staining.	
		0.0	moist	FILL		COPR, little fine sand and silt, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining.	
2				NR		NO RECOVERY	
3	2	0.0	moist	FILL		COPR, little fine sand and silt, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining.	
4		0.0	moist	FILL		SILT, with fine sand, little fine gravel, (10YR 5/2) grayish brown, non plastic, soft, moist, no odor, no staining.	
5		0.0	moist	FILL		SILT, with sand, trace fine gravel, (7.5YR 2.5/1) black, non plastic, soft to loose, moist to wet, no odor, no staining.	
6	2	1.8	moist	FILL		SILT, some sand and roots, (7.5YR 2.5/2) very dark brown, non plastic, soft to loose, moist, no odor, no staining.	
7		0.6	moist	FILL		fine to medium sandy SILT, trace fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	
8	1.5	0.0	moist	FILL		SILT, some COPR and fine sand, (7.5YR 3/4) dark brown, non plastic, soft, moist, no odor, no staining.	
9		0.0	moist	FILL		GGM, some silt, (10Y 5/2) grayish olive, non plastic, soft, moist, green staining.	
10	1	0.0	moist	FILL		fine to medium SAND, with ash and fine gravel, (7.5YR 4/1) dark gray, non plastic, soft, moist, no odor, no staining.	133-P3B-N39A-8.0-8.5
11				NR		NO RECOVERY	
12	1.8	0.0	moist	FILL		fine to medium SAND, with ash and fine gravel, (7.5YR 4/1) dark gray, non plastic, soft, moist, no odor, no staining, trace silt and ceramics.	133-P3B-N39A-10.0-10.5
13		0.0	moist	FILL		NO RECOVERY	
14	1.7	0.0	wet	NR		fine to medium SAND, and silt, little fine gravel, (7.5YR 3/2) dark brown, non plastic, soft, moist to wet, no odor, no staining.	133-P3B-N39A-12.0-12.5
15				FILL		fine SAND, with silt, little wood fragments, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	
16	1.8	0.0	moist	FILL		NO RECOVERY	
		0.8	moist	OL		medium to coarse SAND, some fine gravel and ash, (7.5YR 4/1) dark gray, non plastic, loose, wet, no odor, no staining.	133-P3B-N39A-14.0-14.5
		1.4	moist	PT		medium SAND, with silt and roots, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	133-P3B-N39A-14.5-15.0
				NR		NO RECOVERY	
						medium SAND, with silt and roots, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	
						UNDorg SILT, with organics, (7.5YR 3/4) dark brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
						PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining. Soils consistent with MM.	
						NO RECOVERY	

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610719.2
Date Started Drilling: 12/16/2013 10:46:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682400.5
Date Finished Drilling: 12/16/2013	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: A. Bogucki	Project Manager:	Depth to Water:
Physical Location: Site 133 - N40A		Surface Elevation: 10.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	1.0	moist to wet	FILL		fine to medium silty SAND, some gravel, subangular, (10YR 4/2) dark grayish brown, non plastic, loose, moist, moderate petroleum odor, no staining. COPR, little fine to medium sand, little gravel, subangular, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, slight petroleum odor, no staining.	
2							
3		618	moist to wet	FILL			
4	5					fine SAND, some GGM, some gravel, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet, strong petroleum odor, sheen.	
5							
6		24.7	wet	FILL			
7							
8	5	3.7	wet	FILL		fine to coarse GRAVEL, angular, little fine to medium sand, little GGM, (5YR 4/1) dark gray, non plastic, loose, wet, slight petroleum odor, green staining.	133-P3B-N40A-8.5-9.0
9							
10		0.0	wet	FILL			
11		0.0	wet	FILL			
12							
13	5					fine to medium SAND, some rock fragments, some glass, (5YR 4/3) reddish brown, non plastic, medium dense, wet, no odor, no staining. fine to medium SAND, some ash, some gravel, (10YR 4/1) dark gray, non plastic, medium dense, wet, no staining, slight burn odor.	133-P3B-N40A-10.5-11.0
14							
15		0.0	moist	FILL			
16							
17	5	10.7	moist	PT		PEAT (degraded vegetated material), 90% organic silt, 10% organic fibers, (10YR 4/2) dark grayish brown, high plasticity, soft, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3B-N40A-12.5-13.0
18							
19							
20							
21							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610705.7
Date Started Drilling: 7/10/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682373.7
Date Finished Drilling: 7/10/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 133 - N41A		Elevation: 12.5 ft NAVD88

(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	moist	FILL		fine silty SAND, little coarse gravel, (7.5YR 3/3) dark brown, non plastic, loose to soft, moist, no odor, no staining.	
2		0.0	wet	FILL		medium to coarse SAND, some fine to medium gravel, little crushed concrete, (10YR 6/6) brownish yellow, non plastic, very loose, wet, no odor, no staining.	
3	0.8			NR		medium to coarse SAND, some fine to medium gravel, little crushed concrete, trace brick, (10YR 6/6) brownish yellow, non plastic, very loose, wet, no odor, no staining. NO RECOVERY	
4		0.0	wet	FILL		medium to coarse SAND, some fine to medium gravel, little crushed concrete, trace brick, (10YR 6/6) brownish yellow, non plastic, very loose, wet, no odor, no staining. NO RECOVERY	133-P3B-N41A-4.0-4.5
5	0.6			NR			
6		0.0	wet	FILL		medium to coarse SAND, some fine to medium gravel, little crushed concrete, trace brick, (10YR 6/6) brownish yellow, non plastic, very loose, wet, no odor, no staining.	133-P3B-N41A-6.0-6.5
7	1.4	0.0	moist	FILL		fine to medium SAND, with cinders, some ash, little coal, (5YR 3/3) dark reddish brown, non plastic, loose, moist, no odor, no staining.	
8		0.0	slightly moist	FILL		NO RECOVERY	133-P3B-N41A-8.0-8.5
9	1.3			NR		fine silty SAND, some ash, some cinders, little coal, wood fragments, (10YR 4/2) dark grayish brown, non plastic, loose to soft, slightly moist, no odor, no staining. NO RECOVERY	
10		0.0	wet	FILL		fine to medium SAND, with cinders, some coal, little ceramics, trace brick, (10YR 5/6) yellowish brown, non plastic, loose, wet, no odor, no staining. NO RECOVERY	133-P3B-N41A-10.0-10.5
11	0.8			NR			
12		0.0	wet	FILL		fine to medium SAND, with cinders, some coal, ceramics, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	133-P3B-N41A-12.0-12.5
13	2	0.0	moist	FILL		SILT, some fine sand, little roots, coal, cinders, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, no staining.	133-P3B-N41A-13.0-13.5
14		1.9	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/4) dark brown, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3B-N41A-13.5-14.0
15	1	2.4	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	
		2.1	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/3) dark brown, non plastic, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-N42A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610692.5
Date Started Drilling: 4/10/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682348.1
Date Finished Drilling: 4/10/2014 11:00:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - N42A		Elevation: 11.2 ft NAVD88

(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	moist	FILL		fine to medium silty SAND, with crushed concrete, (7.5YR 2.5/3) very dark brown, loose, moist, no odor, no staining.	
2		27.0	moist	FILL		fine to medium SAND, some cinders, coal, ash, little fine gravel, trace brick, (7.5YR 2.5/3) very dark brown, loose, moist, moderate hydrocarbon odor, sheen.	
4		0.0	moist	FILL		GGM, with COPR, some cinders, ash, fine gravel, (2.5YR 6/1) reddish gray, moist, no odor, green staining.	
5	5	0.0	moist	FILL		fine to medium SAND, with cinders, some coal slag, trace coarse gravel, trace brick, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3B-N42A-5.0-5.5
7							133-P3B-N42A-7.0-7.5
9		0.0	moist	FILL		fine to medium silty SAND, trace cinders, (7.5YR 3/2) dark brown, loose to dense, moist, no odor, no staining.	133-P3B-N42A-9.0-9.5
10	5	0.0	moist	FILL		fine to medium silty SAND, with fine gravel, trace fibers, wood fragments, (10YR 4/2) dark grayish brown, moist to wet, no odor, no staining.	133-P3B-N42A-10.3-10.8
11		0.0	moist to wet	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/2) dark brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3B-N42A-10.8-11.3
12		0.0	moist	PT			
13			slightly moist				
14							
15							

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-N43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610679.5
Date Started Drilling: 4/10/2014 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682319.2
Date Finished Drilling: 4/10/2014 10:25:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - N43A		Elevation: 11.5 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	moist	CONCRETE		CONCRETE	
1		0.0		FILL		fine to medium silty SAND, some cinders, trace coal, (7.5YR 4/6) strong brown, loose to dense, moist, no odor, no staining.	
2		0.0	dry	FILL		crushed CONCRETE, (9.5/2.5Y _/1) white, loose, dry, no odor, slight green staining.	
2		180.3	moist	FILL		fine to medium SAND, some cinders, fine gravel, little coal slag, (7.5YR 2.5/1) black, loose, moist, strong hydrocarbon odor, sheen.	
3		0.0	moist	FILL		GGM, some fine sand, little COPR, fine gravel, trace salt precipitate, (5GY 4/2) dark grayish brown, stiff, moist, no odor, green staining.	
4				NR		NO RECOVERY	
5	5	0.0	moist	FILL		GGM, and cinders, some fine to medium sand, fine gravel, trace ash, coal, (5GY 3/2) very dark grayish green, dense, moist, no odor, green staining.	
6							
7							
8		0.0	slightly moist	FILL		BRICK, (5R 5/8) red, hard, slightly moist, no odor, no staining.	133-P3B-N43A-8.3-8.8
9		0.0	moist	FILL		fine to medium silty SAND, little cinders, fine gravel, trace coal, (7.5YR 3/2) dark brown, dense, moist, no odor, no staining.	
10		0.0	moist	FILL		CINDERS, with ash, some fine to medium sand, fine gravel, little ceramics, fill material, coal, loose, moist, no odor, no staining.	133-P3B-N43A-10.3-10.8
11							133-P3B-N43A-11.0-11.5
12	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 3/3) dark brown, soft to stiff, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-N43A-11.5-12.0
13		0.0	slightly moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	
14							
15							
16	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
17							
18							
19							
20							

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

PPG - PPG_LOGS.GDT - 6/19/14 10:14










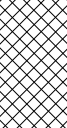




30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-N44A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610664.9
Date Started Drilling: 4/11/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682293.9
Date Finished Drilling: 4/11/2014 9:55:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - N44A		Elevation: 12.0 ft NAVD88

(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		CONCRETE		crushed CONCRETE	
		0.0	moist	FILL		medium to coarse silty SAND, some crushed concrete, medium gravel, some ash, (10YR 3/1) very dark gray, dense, moist, no odor, no staining.	
5	5	0.0	moist to wet	FILL		fine to medium gravelly SAND, trace silt, (10YR 3/6) dark yellowish brown, medium dense, moist to wet, no odor, no staining.	133-P3B-N44A-6.0-6.5
7		0.0	wet to saturated	FILL		medium to coarse gravelly SAND, some silt, trace organic fibers, (10YR 3/1) very dark gray, medium dense, wet to saturated, no odor, no staining.	133-P3B-N44A-8.0-8.5
8		0.0	moist to wet	FILL		medium to coarse gravelly SAND, trace silt, trace organics, (10YR 3/2) very dark grayish brown, loose, moist to wet, no odor, no staining.	
9		0.0	moist to wet	FILL		medium to coarse gravelly SAND, some ash and cinders, some glass and brick fragments, (10YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3B-N44A-10.0-10.5
12	5	0.0	moist to wet	FILL		fine to coarse gravelly SAND, some silt, some ash and cinders, trace brick fragments, (10YR 5/1) gray, loose, moist to wet, no odor, no staining.	133-P3B-N44A-12.0-12.5
13		0.0		FILL		medium to coarse silty SAND, (10YR 4/1) dark gray, medium dense, no odor, no staining.	133-P3B-N44A-14.0-14.5
15		0.0		FILL		medium to coarse silty SAND, (10YR 4/1) dark gray, medium dense, no odor, no staining.	133-P3B-N44A-15.0-15.5
16	5	0.0	slightly moist	OL		SILT, 80% organic silt, 20% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-N44A-15.5-16.0
17		0.0	slightly moist	OL		SILT, 90% organic silt, 10% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
18		0.0					
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.

PPG - PPG_LOGS.GDT - 6/19/14 10:14



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Boring ID: 133-P3B-N45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610651.4
Date Started Drilling: 4/17/2014 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682265.9
Date Finished Drilling: 4/17/2014 10:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 15 ft
Logged By: MI, SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - N45A		Elevation: 11.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT		ASPHALT	133-P3B-N45A-0.2-0.7
2		0.0		FILL		fine to medium SAND, with ash, trace coarse gravel, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining.	133-P3B-N45A-2.0-2.5
3		0.0	dry	FILL		fine to medium SAND, little fine to medium gravel, little crushed concrete, trace roots, (7.5YR 2.5/3) very dark brown, loose, dry, no odor, no staining.	133-P3B-N45A-4.0-4.5
4	5	0.0		FILL		coarse GRAVEL, some fine to medium sand, trace brick, (7.5YR 2.5/1) black, loose, moist to wet, no odor, no staining.	133-P3B-N45A-6.0-6.5
5		0.0	moist	FILL		CINDERS, some fine to medium sand, little fine to medium gravel, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3B-N45A-8.0-8.5
6		0.0		FILL		fine to medium silty SAND, little coarse gravel, little organic fibers, trace coal, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	133-P3B-N45A-10.0-10.5
7	5	0.0	dry	FILL		sandy SILT, little cinders, trace coal, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	133-P3B-N45A-11.0-11.5
8		0.0		OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 2.5/2) very dark brown, low plasticity, soft to stiff, dry to moist, no odor, no staining. Soils consistent with UNDorg.	133-P3B-N45A-11.5-12.0
9		0.0	dry to moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/2) brown, low plasticity, soft to stiff, moist, slight organic odor. Soils consistent with UNDorg.	
10		0.0		OL			
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.











30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-N46A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610635.7
Date Started Drilling: 4/10/2014 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682240.9
Date Finished Drilling: 4/17/2014 9:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - N46A		Elevation: 11.1 ft NAVD88

(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	wet	FILL		fine to medium silty SAND, some ash, little wood fragments, trace roots, (7.5YR 2.5/3) very dark brown, loose, wet, no odor, no staining.	133-P3B-N46A-0.0-0.5
2		0.0	dry to moist	FILL		ASH, some cinders, little crushed concrete, trace coarse gravel, (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining.	133-P3B-N46A-2.0-2.5
3							
4	5						133-P3B-N46A-4.0-4.5
5		0.0	moist	FILL		ASH, some fine to medium sand, some cinders, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3B-N46A-6.0-6.5
6							
7	5	0.0	moist	FILL		fine to medium silty SAND, some ash, trace ceramics, trace wood, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3B-N46A-8.0-8.5
8							
9							
10	5	0.0	moist	FILL		fine to coarse SAND, some fine to coarse gravel, little cinders, trace wood fragments, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	133-P3B-N46A-10.0-10.5
11		0.0	dry to moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, non plastic, soft to stiff, dry to moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-N46A-10.5-11.0
12							133-P3B-N46A-11.0-11.5
13	5						
14		0.0	dry	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 6/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
15							
16	5						
17		0.0	dry	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
18							
19							
20							

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



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Boring ID: 133-P3B-O37A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610786.5
Date Started Drilling: 7/8/2013 2:09:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682467.4
Date Finished Drilling: 7/9/2013 9:00:00 AM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - O37A		Elevation: 11.5 ft NAVD88

(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	CONCRETE		CONCRETE, weathered, (10YR 6/1) gray, non plastic, dense, dry.	
		0.0	slightly moist	FILL		COPR, little gravel, (5YR 3/4) dark reddish brown, non plastic, medium dense, slightly moist.	
2		0.0	moist	FILL		COPR, some fine to medium sand some gravel, (5YR 3/2) dark reddish brown, non plastic, medium dense, moist.	
3	2	0.0	moist	FILL		ASH, some GGM, little fine sand, (10YR 2/1) black, non plastic, loose, moist, moderate petroleum odor, sheen.	
4		0.0	moist	FILL		ASH, some GGM, little cinders, (10YR 2/1) black, non plastic, medium dense, moist, slight petroleum odor, sheen.	
5	2	0.0	moist	FILL		GGM, little salt precipitate, (5GY 6/2) light grayish green, non plastic, medium dense, moist.	
6		0.0	moist	FILL		GGM, some cinders, (5GY 6/2) light grayish green, non plastic, medium dense, moist to wet.	
7	2	0.0	moist	FILL		fine to medium SAND, some silt, (10YR 4/3) brown, non plastic, dense, moist.	133-P3B-O37A-6.5-7.0
8		0.0	moist	FILL		fine to medium silty SAND, some ash, some cinders trace metal, (10YR 3/2) very dark grayish brown, non plastic, dense, moist.	
9	2	0.0	moist	FILL		fine to medium SAND, some silt, (10YR 4/2) dark grayish brown, non plastic, dense, moist to wet.	133-P3B-O37A-8.5-9.0
10		0.0	moist	FILL		fine to coarse gravelly SAND, trace coal trace cinders, (10YR 5/2) grayish brown, non plastic loose, moist, no odor, no staining.	
11	2	0.0	moist	FILL		fine to medium silty SAND, some fine to coarse gravel, (10YR 5/2) grayish brown, non plastic loose, moist, no odor, no staining.	133-P3B-O37A-10.5-11.0
12		0.0	moist	FILL		fine to medium silty SAND, trace fine to medium gravel, trace roots, (10YR 2/2) very dark brown, non plastic, loose, moist, no odor, no staining.	
13	2	0.0	moist	FILL		fine to medium silty SAND, trace fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist.	133-P3B-O37A-12.5-13.0
14		0.0	slightly moist	FILL		fine to medium silty SAND, trace fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist.	
15	2	0.0	slightly moist	FILL		fine to medium silty SAND, trace fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist.	133-P3B-O37A-14.5-15.0
16		0.0	slightly moist	FILL		fine to medium SAND, trace silt, fine to medium gravel, (10YR 4/2) dark grayish brown.	
17	2	0.0	slightly moist	FILL		fine to medium SAND, trace silt, trace fine to medium gravel, (5YR 5/2) reddish gray, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-O37A-16.5-17.0
18		0.0	slightly moist	FILL		fine to medium SAND, trace silt, trace fine to medium gravel, (5YR 5/2) reddish gray, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-O37A-18.0-18.5
19	2	2.1	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.	133-P3B-O37A-18.5-19.0
20							

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-O38A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610773.0
Date Started Drilling: 12/18/2013 9:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682440.6
Date Finished Drilling: 12/18/2013 12:00:00 PM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 133 - O38A		Elevation: 11.2 ft NAVD88

(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		fine to coarse CONCRETE, fragments, (10YR 7/2) light gray.	
2		0.0	moist	FILL		COPR, some fine to medium sand, some gravel, (5YR 3/2) dark reddish brown, non plastic, loose, moist.	
3		0.0	moist to wet	FILL		COPR, (2.5YR 4/4) reddish brown, low plasticity, soft, moist to wet.	
4		0.0	wet	FILL		fine CINDERS, some ash, little wood, (10YR 2/1) black, non plastic, loose, wet, burnt odor.	
5	5	12.5	wet	FILL		GGM, some fine cinders, (10YR 2/1) black, non plastic, loose, wet, slight petroleum odor.	
6		0.0	moist to wet	FILL		GGM, trace wood fragments, trace fine to medium sand, (2.5Y 4/2) dark grayish brown, low plasticity, medium dense, moist to wet, no odor, green staining.	
7		0.0	wet	FILL		fine to coarse SAND, little silt, little brick, (10YR 2/2) very dark brown, non plastic, loose, wet, no odor, no staining.	
8		0.0	wet	FILL		fine to coarse SAND, some fine to medium gravel, (10YR 2/2) very dark brown, non plastic, medium dense, wet, slight petroleum odor, no staining.	
9	5	15.2	wet	FILL		fine to coarse SAND, some fine to medium gravel, (10YR 2/2) very dark brown, non plastic, medium dense, wet, slight petroleum odor, no staining.	133-P3B-O38A-9.2-9.7
10		0.0	moist	FILL		fine silty SAND, trace roots, trace gravel, (10YR 3/3) dark brown, non plastic, dense, moist, slight chemical odor, no staining.	133-P3B-O38A-11.2-11.7
11		0.0	moist	FILL		fine silty SAND, trace roots, trace gravel, (10YR 3/3) dark brown, non plastic, dense, moist, slight chemical odor, no staining.	133-P3B-O38A-13.2-13.7
12		0.0	moist	FILL		fine to coarse SAND, some fine to coarse gravel, little fill material, (10YR 2/2) very dark brown, non plastic, medium dense, wet, no odor, no staining.	133-P3B-O38A-15.2-15.7
13	5	0.0	moist	FILL		SILT, little clay, little fine sand, (10YR 4/2) dark grayish brown, high plasticity, soft, moist, no staining, slightly burnt odor.	133-P3B-O38A-16.5-17.0
14		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	133-P3B-O38A-17.0-17.5
15		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	
16		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fiber, 20% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	
17							
18							
19							
20							

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

PPG - 2012-09 RA PPG_LOGS_A_GDT - 1/29/16 14:27



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Boring ID: 133-P3B-O39A

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
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610759.5
Date Started Drilling: 7/9/2013 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682413.8
Date Finished Drilling: 7/9/2013 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 133 - O39A		Elevation: 11.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		medium to coarse GRAVEL, crushed concrete, (7.5YR 5/1) gray, non plastic, loose to hard, dry, no odor, no staining.	
2		0.0	dry	FILL		COPR, little fine silty sand, (2.5YR 4/6) red, non plastic, loose, dry to slightly moist, no odor, slight green staining.	
3	1.4	0.0	dry	FILL		COPR, little fine silty sand, (2.5YR 4/6) red, non plastic, loose, dry to slightly moist, no odor, slight green staining.	
4		0.0	moist	FILL		ASH, some silt, trace wood, (9.5/2.5Y /1) white, non plastic, loose to soft, moist, no odor, no staining.	
5	2	0.0	slightly moist	NR		fine silty SAND, some coal, wood fragments, (7.5YR 2.5/1) black, non plastic loose, slightly moist, slight petroleum odor, no staining.	
6		0.0	slightly moist	FILL		NO RECOVERY	
7	0.7	0.0	slightly moist	FILL		GGM, little fine sand trace fine gravel, ash, cinders, (5GY 5/2) grayish green, non plastic, soft, slightly moist, no odor, green staining.	
8		0.0	slightly moist	FILL		gravelly SAND, little wood fragments, trace GGM, non plastic, loose, slightly moist, no odor, slight green staining.	
9	1.2	0.0	moist	NR		gravelly SAND, little wood fragments, with ash, little cinders, trace GGM, non plastic, loose, slightly moist, no odor, no staining, slight green staining.	133-P3B-O39A-8.0-8.5
10		0.0	slightly moist	FILL		NO RECOVERY	
11	1.5	0.0	slightly moist	NR		ASH, little sand, (N 4/) dark gray, non plastic, loose, moist, no odor, no staining.	
12		0.0	slightly moist	FILL		SILT, trace wood fragments, trace ash, (7.5YR 2.5/2) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-O39A-10.0-10.5
13	1.2	0.0	slightly moist	NR		NO RECOVERY	
14		0.0	slightly moist	FILL		SILT, some ash, trace wood fragments, trace glass, (7.5YR 2.5/2) very dark brown, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-O39A-12.0-12.5
15	2	0.0	slightly moist	NR		NO RECOVERY	
16		0.0	slightly moist	FILL		LEAN CLAY, trace sand, trace coal, (7.5YR 3/2) dark brown, low plasticity, soft, slightly moist, no odor, no staining.	133-P3B-O39A-14.0-14.5
17	2	0.0	slightly moist	OL		NO RECOVERY	
18		0.0	slightly moist	FILL		SILT, with sand, (7.5YR 3/2) dark brown, low plasticity, soft, slightly moist, no odor, no staining.	
		0.0	slightly moist	FILL		SILT, with clay, (7.5YR 2.5/2) very dark brown, low plasticity, soft, slightly moist, slight organic odor.	133-P3B-O39A-16.2-16.7
		0.0	slightly moist	FILL		SILT, with clay, (7.5YR 2.5/2) very dark brown, low plasticity soft, slightly moist, slight organic odor.	133-P3B-O39A-16.7-17.2
		0.0	slightly moist	OL		SILT, 80% Inorganic silt, 20% organic fibers, (7.5YR 4/2) brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDno.	133-P3B-O39A-16.7-17.2X

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610746.0
Date Started Drilling: 12/17/2013 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682387.0
Date Finished Drilling: 12/17/2013 1:30:00 PM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: A. Bogucki	Project Manager:	Depth to Water:
Physical Location: Site 133 - O40A		Surface Elevation: 11.3 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, (10YR 6/1) gray.	
1		0.0	dry to moist	FILL		COPR, some fine to medium sand, little cinders, (5YR 4/2) dark reddish gray, non plastic, dense, dry to moist, no odor, no staining, little GGM.	
2							
3	5	1.0	moist to wet	FILL		fine silty SAND, some cinders, some gravel, (2.5Y 3/2) very dark grayish brown, non plastic, dense, moist to wet, no odor, no staining, trace GGM, trace glass, trace ceramic.	
4		0.0	moist	FILL		GGM, some cinders, trace paper, (5Y 4/2) olive gray, non plastic, dense, moist, no odor, no staining.	
5		0.0	moist	FILL		GGM, some cinders, (5Y 4/2) olive gray, non plastic, dense, moist, no odor, no staining.	
6		0.0	wet	FILL		BRICK, some silty fine to medium sand, (5YR 4/2) dark reddish gray, non plastic, dense, wet, no odor, no staining.	133-P3B-O40A-5.5-6.0
7							133-P3B-O40A-6.0-6.5
8	5	0.0	wet	FILL		CINDERS, some ash, little metal, (10YR 2/2) very dark brown, non plastic, dense, wet, no odor, no staining.	
9							133-P3B-O40A-8.0-8.5
10		0.0	slightly moist	FILL		fine to medium silty SAND, some cinders, trace ceramics, (10YR 3/4) dark yellowish brown, non plastic, medium dense, slightly moist.	
11		0.0	wet	FILL		fine to coarse silty SAND, some fine cinders, some gravel, subangular, (10YR 2/2) very dark brown, non plastic, medium dense, wet, no odor, no staining.	133-P3B-O40A-10.0-10.5
12							133-P3B-O40A-12.0-12.5
13	5	0.0	moist	FILL		SILT, little cinders, little fill material, (10YR 4/2) dark grayish brown, low plasticity, medium dense, moist, no odor, no staining.	133-P3B-O40A-13.5-14.0
14		8.9	moist	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 3/2) very dark grayish brown, high plasticity, medium dense, moist, slight organic odor, no staining. Soils consistent with MM.	133-P3B-O40A-14.0-14.5
15							

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

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



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Boring ID: 133-P3B-O41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610732.5
Date Started Drilling: 5/16/2013 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682360.2
Date Finished Drilling: 5/16/2013 11:45:00 AM	Core Size: 3 in	Boring Total Depth: 14 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - O41A		Elevation: 11.4 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		fine to medium SAND, with fine to coarse gravel, trace silt, (7.5YR 4/2) brown, non plastic, loose, dry to moist, no odor, no staining.	
2		0.0	moist	FILL		fine to medium SAND, and COPR, trace fine gravel, (5YR 3/2) dark reddish brown, non plastic, loose, dry to moist, no odor, no staining.	
3	2	0.0	moist	FILL		medium to coarse SAND, trace ash, (7.5YR 2.5/1) black, non plastic, very loose, moist, no odor, no staining.	
4		0.0	dry	FILL		fine to medium silty SAND, with COPR, (5YR 3/4) dark reddish brown, non plastic, soft, moist, no staining.	
5	2	0.0	moist	FILL		fine to medium silty SAND, with COPR, (5YR 3/4) dark reddish brown, non plastic, soft, moist, no staining.	
6		0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, little silt, (7.5YR 4/6) strong brown, non plastic, soft, dry to moist, no odor, no staining.	133-P3B-O41A-5.0-5.5
7	1.5	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel and silt, (7.5YR 3/2) dark brown, non plastic, soft to loose, moist, no odor, no staining.	
8		0.0	wet	FILL		medium to coarse SAND, little fine to medium gravel and fill material, (10YR 4/2) dark grayish brown, non plastic, loose, wet, no odor, no staining.	133-P3B-O41A-6.5-7.0
9	1.1	0.0	wet	FILL		fine to medium SAND, with fine to coarse gravel, little silt, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining.	
10		0.0	wet	FILL		medium to coarse SAND, with fine to medium gravel, trace silt, (7.5YR 3/2) dark brown, wet, no odor, no staining.	133-P3B-O41A-8.5-9.0
11	1.6	0.0	wet	FILL		medium to coarse SAND, with fine to medium gravel, trace silt, (7.5YR 3/2) dark brown, wet, no odor, no staining.	
12		0.0	wet	FILL		fine to medium SAND, and silt, with fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	133-P3B-O41A-10.5-11.0
13	2	0.0	wet	FILL		NO RECOVERY	
14		1.3	moist	PT		medium to coarse silty SAND, with fine to medium gravel and wood fragments, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	133-P3B-O41A-12.5-13.0
						fine to medium silty SAND, with fill material and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, soft to loose, wet to saturated, no odor, no staining, and wood fragments.	133-P3B-O41A-13.0-13.5
						NO RECOVERY	
						SILT, with fine sand and fill material, (7.5YR 2.5/3) very dark brown, non plastic, soft to loose, wet, no odor, no staining.	
						ASH, with fine sand and fine gravel, (7.5YR 5/1) gray, non plastic, loose, wet, no odor, no staining.	
						SILT, with fine sand and fill material, (7.5YR 2.5/3) very dark brown, non plastic, soft to loose, wet, no odor, no staining.	
						fine GRAVEL, with fine sand and silt, (7.5YR 4/1) dark gray, non plastic, loose, wet, no odor, no staining.	
						NO RECOVERY	
						fine to medium GRAVEL, with fine sand and silt, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	
						SILT, with roots and fill material, (7.5YR 3/4) dark brown, non plastic, soft, moist, no odor, no staining.	
						PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 4/2) brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	

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



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Boring ID: 133-P3B-O44A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610692.2
Date Started Drilling: 4/10/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682280.6
Date Finished Drilling: 4/10/2014 9:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - O44A		Elevation: 11.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.7	0.0	moist	CONCRETE		CONCRETE	
2		0.0	moist to wet	FILL		fine to medium SAND, little crushed concrete, trace stones, (5YR 6/3) light reddish brown, medium dense, moist, no odor, no staining.	
3						medium to coarse SAND, little cinders, trace gravel, cobbles, ash, (7.5YR 2.5/1) black, medium dense, moist to wet, no odor, no staining.	
4				NR		NO RECOVERY	
5	5	1.0	wet to saturated	FILL		fine to medium silty SAND, (7.5YR 7/1) light gray, medium dense to loose, wet to saturated, slight solvent odor, no staining.	
6		0.0	wet	FILL		fine to coarse silty SAND, some fine to medium gravel, (10YR 5/2) grayish brown, medium dense, wet, no odor, no staining.	
7		0.0	moist	FILL		fine to medium silty SAND, (5R 6/6) light red, medium dense, moist, no odor, no staining.	
8							
9							
10							
11	5	0.0	wet	FILL		fine silty SAND, with ash, fine to medium gravel, (10YR 5/1) gray, medium dense, wet, no odor, no staining.	133-P3B-O44A-11.0-11.5
12							
13							133-P3B-O44A-12.7-13.2
14		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, firm, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3B-O44A-13.2-13.7
15		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, low plasticity, medium stiff to soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
16	5					UNDorg SILT, 90% organic fibers, 10% organic silt, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
17							
18							
19							
20							

PPG - PPG_LOGS.GDT - 6/19/14 10:14

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.



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Boring ID: 133-P3B-O45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610677.8
Date Started Drilling: 4/14/2014 11:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682293.1
Date Finished Drilling: 4/14/2014 12:45:00 PM	Core Size: 2.0 in	Boring Total Depth: 15 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3B - O45A		Elevation: 11.2 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry to moist	FILL		fine to medium SAND, some fine to medium gravel, little cinders, ash, trace brick fragments, coal, (10YR 3/1) very dark gray, dense, dry to moist, no odor, no staining.	133-P3B-O45A-1.0-1.5
2							
3							133-P3B-O45A-3.0-3.5
4							
5	5	0.0	saturated	FILL		fine silty SAND, little glass, trace fill material, (10YR 4/2) dark grayish brown, loose to dense, saturated, no odor, no staining.	133-P3B-O45A-5.0-5.5
6							
7		0.0	wet	FILL		fine to medium silty SAND, with cinders, ash, little medium gravel, trace brick fragments, (10YR 3/1) very dark gray, soft to medium dense, wet, no odor, no staining.	133-P3B-O45A-7.0-7.5
8							
9							133-P3B-O45A-9.0-9.5
10	5	0.0	moist to wet	FILL		fine to medium silty SAND, some wood debris, little cinders, ash, fine gravel, trace coal, medium dense, moist to wet, no odor, no staining.	
11							
12		0.0	moist	FILL		fine to medium silty SAND, some fibers, little medium gravel, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	133-P3B-O45A-11.3-11.8
13		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3B-O45A-11.8-12.3
14							
15							

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610813.3
Date Started Drilling: 12/18/2013 12:55:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682453.9
Date Finished Drilling: 12/18/2013 2:22:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: R. Kantor	Project Manager:	Depth to Water:
Physical Location: Site 133 - P37A		Surface Elevation: 12.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	CONCRETE		CONCRETE, (10YR 7/1) light gray, non plastic, dry, no odor, no staining. COPR, little fine sand, little gravel, (2.5YR 4/4) reddish brown, non plastic, medium dense, dry to moist, moderate petroleum odor, no staining.	
2		225	dry to moist	FILL			
3		162	moist to wet	FILL			
4		126	moist to wet	FILL			
5	5	68.2	moist to wet	FILL		GGM, little cinders, (5GY 5/4) light olive green, non plastic, medium dense, moist to wet, moderate petroleum odor, iron oxide staining. GGM, little wood fragments, little gravel, (5GY 4/2) dark greyish brown, non plastic, medium dense, moist to wet, moderate petroleum odor. fine to coarse CINDERS, some GGM, trace glass, (5Y 3/2) dark olive gray, non plastic loose, wet.	
6		0.0	moist to wet	FILL			
7			wet				
8			wet				
9	1	0.0	wet	FILL		CINDERS, some ash, trace wood, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining. CINDERS, some ash, little fill material, (10YR 3/1) very dark gray, non plastic, medium dense, wet, slight petroleum odor.	133-P3B-P37A-9.6-10.1
10		43.5	wet	FILL			
11							133-P3B-P37A-11.6-12.1
12							133-P3B-P37A-13.6-14.1
13	5	24.8	moist to wet	FILL		fine silty SAND, little medium sand, trace fill material, (10YR 4/2) dark grayish brown, low plasticity, soft, moist to wet, slight petroleum odor. PEAT (degraded vegetated material), 50% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, high plasticity, soft, moist, moderate organic odor, no staining, 30% fine sand. Soils consistent with MM.	133-P3B-P37A-15.5-16.0
14		37.6	moist	PT			133-P3B-P37A-16.0-16.5
15							133-P3B-P37A-16.5-17.0
16							
17							
18							
19							
20							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610799.8
Date Started Drilling: 7/9/2013 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682427.1
Date Finished Drilling: 7/9/2013 2:10:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - P38A		Elevation: 11.5 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	FILL		coarse GRAVEL, some fine to medium sand, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, little COPR, trace silt, trace fine to medium gravel, (7.5YR 3/2) dark brown, non plastic, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		COPR, (2.5YR 4/4) reddish brown, non plastic, loose, dry, no odor, no staining.	
3	1.7	0.0	dry	FILL		COPR, (2.5YR 2.5/3) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
4				NR		NO RECOVERY	
5	1.5	0.0	dry	FILL		NO RECOVERY	
6							
7	1	0.0	dry	FILL		GGM, little COPR, trace cinders, (5Y 5/2) olive gray, non plastic, soft, dry, no odor, no staining.	
8				NR		NO RECOVERY	
9	1.7	0.0	slightly moist	FILL		ASH, trace coal, cinders, (10YR 3/1) very dark gray, non plastic, loose, slightly moist, no odor, no staining.	
10				NR		NO RECOVERY	
11	1.8	0.0	dry	FILL		ASH, little cinders, trace coal, (10YR 4/1) dark gray.	133-P3B-P38A-10.5-11.0
12				NR		NO RECOVERY	
13	2	0.0	slightly moist	FILL		sandy SILT, trace cinders, trace coal, trace ash, trace wood fragments, fine gravel, (7.5YR 2.5/3) very dark brown, low plasticity, soft, slightly moist, no odor, no staining.	133-P3B-P38A-12.5-13.0
14				NR		NO RECOVERY	
15	1	0.0	slightly moist	FILL		silty SAND, trace roots, (7.5YR 4/2) brown, non plastic, loose, slightly moist, no odor, no staining.	133-P3B-P38A-14.5-15.0
16				NR		NO RECOVERY	
17	2	0.0	moist	FILL		ELASTIC SILT, trace fine sand, trace roots, (10YR 2/1) black, high plasticity, soft, moist, slight burnt odor.	133-P3B-P38A-16.5-17.0
18							
19	2	0.0	moist	FILL		ELASTIC SILT, trace fine sand, trace roots, (10YR 2/1) black, high plasticity, soft, moist, slight burnt odor.	133-P3B-P38A-18.0-18.5
		0.4	moist	MH		ELASTIC SILT, 20% organic fibers, (10YR 3/2) very dark grayish brown, high plasticity, soft, moist. Soils consistent with UNDno.	133-P3B-P38A-18.5-19.0
20							

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



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Boring ID: 133-P3B-P39A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610786.3
Date Started Drilling: 12/18/2013 8:30:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682400.3
Date Finished Drilling: 12/18/2013 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 133 - P39A		Elevation: 11.6 ft NAVD88

(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	moist	FILL		fine to medium SAND, some gravel, (10YR 2/1) black, non plastic, loose, moist, no odor, no staining. COPR, some silty fine sand, little rock fragments, (2.5YR 4/2) weak red, non plastic, medium dense, moist, no odor, no staining.	
2		0.0	moist	FILL			
3		0.0		FILL			
4	5	0.0		FILL		GGM, (5Y 4/2) olive gray.	
5		0.0	moist to wet	FILL			
6		0.0	moist	FILL			
7	5	0.0	moist	FILL		fine to coarse CINDERS, little glass, little ash, (10YR 4/1) dark gray, non plastic, dense, wet, no odor, no staining, trace wire, trace ceramic.	133-P3B-P39A-6.5-7.0
8		0.0	moist to wet	FILL			133-P3B-P39A-8.5-9.0
9		0.0	moist to wet	FILL			133-P3B-P39A-10.5-11.0
10	5	0.0	moist	FILL		SILT, little cinders, little glass, (10YR 4/2) dark grayish brown, low plasticity, medium dense, wet, no odor, no staining, trace metals.	
11		0.0	moist	FILL			
12		0.0	moist	FILL			
13	5	7.3	moist	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% organic silt, (10YR 4/2) dark grayish brown, medium plasticity, medium stiff, moist, moderate sulfur odor, no staining. Soils consistent with MM.	133-P3B-P39A-12.5-13.0
14							133-P3B-P39A-13.0-13.5
15							133-P3B-P39A-13.5-14.0
16							
17							
18							
19							
20							

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

PPG - 2012-09 RA PPG LOGS_A_GDT - 1/29/16 14:27

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610772.8
Date Started Drilling: 12/17/2013 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682373.5
Date Finished Drilling: 12/17/2013 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 133 - P40A		Elevation: 11.7 ft NAVD88

(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	moist	FILL		fine to coarse GRAVEL, subangular, little fine to medium sand, (10YR 4/2) dark grayish brown, non plastic, loose, moist.	
		3.7	moist	ASPHALT		ASPHALT, (10YR 2/1) black, non plastic loose, moist.	
		0.0	moist	FILL		COPR, (5YR 4/4) reddish brown, non plastic, medium dense, moist, no odor, no staining.	
		0.0	moist	FILL		fine to medium silty SAND, little COPR, little gravel, (2.5YR 4/2) weak red, non plastic, loose, moist, no odor, no staining, little salt precipitate.	
		70.0	moist	FILL		fine silty SAND, some tar, some paper, (2.5YR 4/2) weak red, non plastic, dense, moist, moderate petroleum odor, no staining.	
2	5	521	moist	FILL		fine silty SAND, some rock fragments, (5YR 4/2) dark reddish gray, non plastic, dense, moist, moderate petroleum odor, sheen.	133-P3B-P40A-5.0-5.5
						GGM, trace brick, trace metal, (5Y 4/2) olive gray, non plastic, medium dense, moist, no odor, green staining.	133-P3B-P40A-6.5-7.0
						CINDERS, little gravel, little ash, (10YR 2/2) very dark brown, non plastic, medium dense, wet, slight petroleum odor, little wood, trace metal, trace ceramic.	133-P3B-P40A-8.5-9.0
						fine silty SAND, little clay, trace ceramics, (10YR 4/2) dark grayish brown, low plasticity, soft, wet, no odor, no staining.	133-P3B-P40A-10.5-11.0
3	5	0.0	moist to wet	FILL		fine to medium silty SAND, little gravel, trace fill material, (5YR 4/2) dark reddish gray, non plastic, medium dense, moist to wet, no staining, slight burnt odor.	133-P3B-P40A-12.5-13.0
							133-P3B-P40A-13.5-14.0
							133-P3B-P40A-14.0-14.5
						90% organic fiber, little 10% organic silt, (10YR 4/4) dark yellowish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with MM.	
4							

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



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Boring ID: 133-P3B-P41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610759.3
Date Started Drilling: 5/16/2013 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682346.7
Date Finished Drilling: 5/16/2013 10:35:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - P41A		Elevation: 11.7 ft NAVD88

(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	moist	FILL		fine to medium SAND, with wood fragments, little silt, (7.5YR 3/3) dark brown, non plastic, loose, moist, no odor, no staining.	
		0.0	moist	FILL		COPR, trace fine sand, trace silt, (5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining, some brick fragments.	
2		0.0	moist	NR			
		0.0	moist	FILL		fine to medium silty SAND, some COPR, (5YR 2.5/2) dark reddish brown, non plastic, soft to loose, moist, no odor, no staining.	
3	1.8	0.0	moist	FILL		NO RECOVERY	
4		0.0	moist	NR		fine to medium SAND, with medium gravel, little silt, (7.5YR 3/2) dark brown, non plastic, soft to medium, dense, moist.	
		0.0	moist	FILL		medium SAND, with silt and fill material, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist, no odor, no staining.	133-P3B-P41A-5.0-5.5
5	1.6	0.0	wet	FILL		NO RECOVERY	
6		1.1	wet	NR		medium SAND, with brick, little fine to medium gravel, (7.5YR 5/1) gray, non plastic, loose, moist to wet, no odor, no staining, some glass, ceramics and fill material.	
		0.6	moist	FILL		fine to medium SAND, little fine gravel, little silt, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	133-P3B-P41A-6.5-7.0
7	1			NR		NO RECOVERY	
8		0.8	wet	FILL		fine to medium GRAVEL, with fine to medium sand, little ash, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	
9	1			NR		ASH, with fine to medium sand, and fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist, no odor.	133-P3B-P41A-8.5-9.0
10		0.0	wet	FILL		NO RECOVERY	
11	1.8					fine to medium sandy SILT, with fine to medium, gravel and ash, (7.5YR 3/1) very dark gray, non plastic, soft, wet, no odor, no staining.	133-P3B-P41A-10.5-11.0
12		0.0	moist	FILL		NO RECOVERY	
		0.0	wet	NR		fine to medium SAND, with fine gravel and silt, (7.5YR 2.5/1) black, non plastic, loose, wet, no odor, no staining.	133-P3B-P41A-12.5-13.0
13	2			FILL		ASH, with fine sand, trace fine gravel, (7.5YR 5/1) gray, non plastic, loose, moist, no odor, no staining.	133-P3B-P41A-13.2-13.7
		0.3	moist	OL		NO RECOVERY	
14	1	1.5	moist	PT		fine to medium SAND, and silt, with ash, (7.5YR 3/1) very dark gray, non plastic, soft to loose, wet, no odor, no staining, and fine to medium gravel.	133-P3B-P41A-13.7-14.2
15						UNDorg SILT, some organics, (7.5YR 4/2) brown, non plastic, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg. PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-P42A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610744.8
Date Started Drilling: 5/16/2013 2:50:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682326.9
Date Finished Drilling: 5/16/2013 9:31:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - P42A		Elevation: 11.4 ft NAVD88

(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	moist	FILL		fine to medium SAND, with silt and roots, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, with COPR, little roots, (5YR 3/4) dark reddish brown, non plastic, loose, dry to moist, no odor, no staining.	
		0.0	moist	FILL		fine to medium SAND, with fine gravel, trace COPR, (7.5YR 2.5/1) black, non plastic, loose, moist, no odor, no staining.	
2	2	0.0	moist	NR FILL		NO RECOVERY	
3		0.0	moist	FILL		fine to medium silty SAND, trace COPR and fill material, (7.5YR 3/1) very dark gray, moist to wet, no odor, no staining, little coal.	
4		0.0	moist	FILL		medium SAND, with silt, little wood fragments, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist, no odor, no staining, some roots.	133-P3B-P42A-5.0-5.5
5	2	0.0	moist	FILL		medium to coarse SAND, with wood fragments and silt, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
6		0.0	moist	FILL		medium SAND, little silt and fine gravel, (7.5YR 4/6) strong brown, non plastic, soft to loose, moist to wet, no odor, no staining.	133-P3B-P42A-6.5-7.0
7	1.5	0.0		FILL		medium SAND, with silt, little fine to medium gravel, (7.5YR 4/6) strong brown, non plastic, soft to loose, moist to wet, no odor, no staining.	
8		0.0	wet	NR		medium to coarse SAND, with fill material.	
9	1.3	0.0	moist	FILL		NO RECOVERY	133-P3B-P42A-8.5-9.0
10		0.0	moist	FILL		fine to medium SAND, with silt and brick, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	
11	1.8	0.0	moist	FILL		fine to medium SAND, with fine gravel and fill material, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	133-P3B-P42A-10.5-11.0
12		0.0	moist	FILL		NO RECOVERY	
13	2	0.0	wet	NR FILL		fine to medium SAND, with silt, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining.	133-P3B-P42A-12.7-13.2
14		0.0	moist	OL		SAND, with ash and fine gravel, (7.5YR 4/1) dark gray, non plastic, loose, moist to wet, no odor, no staining.	133-P3B-P42A-13.2-13.7
15	1	1.3	moist	PT		SILT, with fine gravel and brick, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining, little ash.	
						NO RECOVERY	
						medium to coarse SAND, some silt and fine gravel, (7.5YR 3/2) dark brown, non plastic, soft to loose, wet, no odor, no staining.	
						UNDorg SILT, with organics, (7.5YR 3/2) dark brown, non plastic, soft, moist, slight organic odor, no staining.	
						Soils consistent with UNDorg.	
						PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	
						PEAT (degraded vegetated material), with 80% organic fibers and 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistent with MM.	

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



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Boring ID: 133-P3B-Q37A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610840.1
Date Started Drilling: 5/20/2013 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682440.4
Date Finished Drilling: 5/20/2013 2:45:00 PM	Core Size: 3 in	Boring Total Depth: 18 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Q37A		Elevation: 12.5 ft NAVD88

(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	CONCRETE		CONCRETE, (10YR 7/2) light gray, non plastic, very dense, dry.	
2	2	1762	slightly moist	FILL		fine to medium silty SAND, some COPR, little brick, little cinders, (2.5YR 2.5/1) reddish black, non plastic, loose, slightly moist, strong petroleum odor.	
3	2	1566	moist	FILL		COPR, little fine silty sand, little cinders, (5YR 4/4) reddish brown, non plastic, loose, moist, strong petroleum odor.	
4	2	902	moist	FILL		GGM, some COPR, little fill material, (2.5YR 4/1) dark reddish gray, non plastic, medium dense, moist, strong petroleum odor.	
5	2	168	moist	FILL		GGM, some COPR, little ash, (10Y 5/2) grayish olive, non plastic, medium dense, moist, moderate petroleum odor.	
6	2	70.6	moist	FILL		GGM, some COPR, little ash, (5GY 5/2) grayish green, non plastic, loose, moist, slight petroleum odor.	
7	2						
8	2	108	wet	FILL		CINDERS, some ash, little GGM, (2.5Y 4/2) dark grayish brown, non plastic, loose, wet, moderate petroleum odor.	
9	2						
10		67.2	wet	FILL		fine to coarse CINDERS, some ash, some fine to medium sand, some wood chips, some glass, some oil-like material, (10YR 4/1) dark gray, non plastic, loose, wet, strong solvent odor, sheen.	133-P3B-Q37A-10.8-11.3
11	1.3			NR		NO RECOVERY	
12		21.8	wet	FILL		fine to medium CINDERS, some ash, little glass fragments, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, moderate solvent odor, sheen.	133-P3B-Q37A-12.8-13.3
13	1.5	2.0	wet	FILL		fine to medium silty SAND, little glass, little wood fragments, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, moderate petroleum odor.	
14				NR		NO RECOVERY	
15	1.7	0.0	wet	FILL		fine SAND, little cinders, little silt, trace glass, trace roots, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	133-P3B-Q37A-14.8-15.3
16				NR		NO RECOVERY	
17	2	0.0	wet	FILL		fine to medium SAND, some ash, some cinders, little glass, (10YR 4/2) dark grayish brown, non plastic, loose, wet.	133-P3B-Q37A-16.5-17.0
18		2.3	moist	PT		fine SAND, little cinders, little roots, (7.5YR 4/3) brown, non plastic, loose, moist.	133-P3B-Q37A-17.0-17.5
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic, loose, moist, moderate sulfur odor. Soils consistent with MM.	

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3B-Q38A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610826.6
Date Started Drilling: 5/14/2013 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682413.6
Date Finished Drilling: 5/15/2013 9:40:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Q38A		Elevation: 11.7 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0	moist	FILL		GRAVEL, some fine to coarse sand, (7.5YR 3/2) dark brown, non plastic, loose, moist, moderate HC odor.	
2		0.0	wet	FILL		GRAVEL, some COPR some silt, little fine to medium sand, (5YR 4/4) reddish brown, non plastic, loose, wet.	
3		0.0	wet	FILL		COPR, little gravel, (5YR 4/3) reddish brown, non plastic, loose, wet.	
4	2	0.0	wet	FILL		GRAVEL, some glass fragments, (10YR 3/1) very dark gray, non plastic, loose, wet, mostly water; not many solids in auger.	
5		0.0	wet	FILL		GRAVEL, little COPR little glass, little metal, (10YR 3/2) very dark grayish brown, non plastic, loose, wet, slight HC odor, sheen.	
6	1	0.0	moist	FILL		ASH, some cinders, (10YR 4/1) dark gray, non plastic, loose, moist, slight burnt odor.	
7		0.0	moist	FILL		fine CINDERS, some ash, little coal, (10YR 2/2) very dark brown, non plastic, loose, moist, slight burnt odor.	
8	1.5			NR		fine CINDERS, some ash, little fill material, (10YR 2/1) black, non plastic, loose, moist to wet, slight burnt odor.	
9		0.0	moist	FILL		NO RECOVERY	
10	1.8			FILL		fine to medium silty SAND, some ash, some fine cinders, little wood, little roots, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, slight burnt odor.	133-P3B-Q38A-8.5-9.0
11		0.0	moist	NR		NO RECOVERY	
12	2			FILL		fine to medium silty SAND, some ash, some fine cinders, some gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet, slight burnt odor.	133-P3B-Q38A-10.5-11.0
13		0.0	moist	FILL		fine silty SAND, little clay, little roots, little cinders, (10YR 4/3) brown, low plasticity, soft, moist, slight burnt odor.	133-P3B-Q38A-12.5-13.0
14	2	1.9	moist	PT		clayey PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt and clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	133-P3B-Q38A-13.2-13.7
15		2.3	moist	PT		clayey PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt and clay, (10YR 4/2) dark grayish brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	133-P3B-Q38A-13.7-14.2
16							

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



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Boring ID: 133-P3B-Q39A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610810.1
Date Started Drilling: 5/14/2013 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682389.8
Date Finished Drilling: 5/15/2013 10:50:00 AM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Q39A		Elevation: 11.8 ft NAVD88

(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	moist	FILL		GRAVEL, some COPR, little fill material, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist, slight burnt odor.	
2		0.0	wet	FILL		COPR, little cinders, little gravel, non plastic, loose, wet, mostly water in auger.	
3	2	0.0	wet	FILL		GRAVEL, some COPR little fill material, (7.5YR 2.5/3) very dark brown, non plastic, loose, wet, mostly water in auger.	
4		0.0	wet	FILL		ASH, some GGM, some cinders, (5Y 5/2) olive gray, non plastic, loose, wet, mostly water in auger.	
5	2	0.0	moist	FILL		GGM, some ash, some cinders, little gravel, (2.5Y 4/1) dark gray (5Y 6/3) pale olive, non plastic, loose, moist to wet.	
6		0.0	moist	FILL		GGM, some COPR, some ash, little cinders, (5YR 4/2) dark reddish gray, non plastic, loose, moist.	
7	1.3	0.0	moist	FILL		GGM, some cinders, some ash, (5Y 5/3) olive, non plastic, loose, moist to wet.	
8		0.0	wet	FILL		fine to medium CINDERS, some ash, (10YR 4/1) dark gray, non plastic, loose, wet.	133-P3B-Q39A-6.8-7.3
9	1.3			NR		NO RECOVERY	
10		0.0	wet	FILL		fine to medium CINDERS, some ash, some gravel, (10YR 3/2) very dark grayish brown, non plastic, loose, wet.	133-P3B-Q39A-8.8-9.3
11		0.0	moist	FILL		fine to medium silty SAND, some gravel, (10YR 5/3) brown, non plastic, medium dense, moist.	
12	1.6			NR		NO RECOVERY	
13		0.0	wet	FILL		fine to medium SAND, little silt, (5YR 5/3) reddish brown, non plastic, loose, wet.	
14		0.0	wet	FILL		fine to medium silty SAND, some cinders, little gravel, (7.5YR 3/2) dark brown, non plastic, loose, wet.	133-P3B-Q39A-10.8-11.3
15	2	0.0	wet	FILL		fine to coarse CINDERS, some ash, (10YR 4/1) dark gray, non plastic, loose, wet.	
16		0.0	moist	FILL		NO RECOVERY	
17		1.7	moist	PT		fine to coarse CINDERS, some ash, (10YR 4/1) dark gray, non plastic, loose, wet.	133-P3B-Q39A-12.9-13.4
18	1.5	1.8	moist	PT		fine silty SAND, little ash, little cinders, little roots, (10YR 4/3) brown, non plastic, loose, moist.	133-P3B-Q39A-13.4-13.9
19						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	
20				NR		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt and clay, (10YR 4/1) dark gray, high plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	
21						NO RECOVERY	

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



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Boring ID: 133-P3B-Q40A

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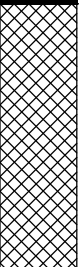
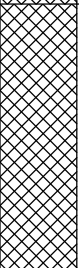
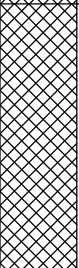
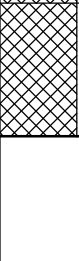
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610794.6
Date Started Drilling: 5/14/2013 1:20:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682370.0
Date Finished Drilling: 5/15/2013 12:20:00 PM	Core Size: 3 in	Boring Total Depth: 16 ft
Logged By: AB	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 133 - Q40A		Elevation: 12.0 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	FILL		COPR, some gravel, little fill material, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist, moderate HC odor.	
2	1	0.0	slightly moist	FILL		fine to medium silty SAND, some gravel, little COPR, little fill material, (10YR 3/2) very dark grayish brown, non plastic, loose, slightly moist, slight HC odor.	
3	3	0.0	moist	FILL		fine to medium silty SAND, some gravel, some ash, little fill material, (7.5YR 3/3) dark brown, non plastic, loose, moist to wet, moderate solvent odor, slight burnt odor.	
4		0.0	wet	FILL		GGM, some ash, some gravel, little COPR, little fill material, (2.5Y 5/1) gray, non plastic, loose, wet.	
5		0.0	moist	FILL		GGM, some COPR, some ash, some fill material, (5Y 4/2) olive gray, non plastic, loose, moist to wet.	
6		0.0	moist	FILL		fine to coarse CINDERS, some ash, some fill material, (10YR 2/1) black, non plastic, dense, moist.	
7	0.8	0.0	moist	FILL		fine to coarse CINDERS, some fine to medium sand, little gravel, little fill material, (10YR 3/2) very dark grayish brown, non plastic, medium dense, moist to wet.	
8				NR		NO RECOVERY	
9	1.2	0.0	moist	FILL		fine to medium silty SAND, little ash, little cinders, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet.	
10				NR		NO RECOVERY	
11	1.5	0.0	moist	FILL		fine to medium silty SAND, some ash, some cinders, little brick, (10YR 4/2) dark grayish brown, non plastic, dense, moist to wet.	133-P3B-Q40A-10.0-10.5
12				NR		NO RECOVERY	
13	2	0.0	moist	FILL		fine to coarse CINDERS, some ash, little wood fragments, little fill material, (10YR 3/2) very dark grayish brown, non plastic, loose, moist to wet.	133-P3B-Q40A-12.0-12.5 133-P3B-Q40A-12.5-13.0
14		2.9	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic sit and clay, (10YR 4/3) brown, non plastic, loose, moist, slight sulfur odor. Soils consistent with MM.	133-P3B-Q40A-13.0-13.5
15	1.4	2.4	moist	PT		PEAT (degraded vegetated material), 50% organic fibers, 50% silty clay, (10YR 4/1) dark gray, high plasticity, soft, moist, moderate sulfur odor. Soils consistent with MM.	
16				NR		NO RECOVERY	

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610688.0
Date Started Drilling: 11/20/2014 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682200.6
Date Finished Drilling: 11/20/2014 10:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: SP	Project Manager:	Depth to Water:
Physical Location: P3C - P46AR		Surface Elevation: 10.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry	FILL		fine to medium SAND, some ash, trace gravel, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		ASH, trace coal, trace gravel, trace ceramics, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	
3	5						133-P3C-P46AR-3.0-3.5
4		0.0	dry	FILL		fine to medium SAND, little ash, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	
5		0.0	dry	FILL		ASH, trace debris, trace coal, trace gravel, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	

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) No COPR or GGM present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610678.7
Date Started Drilling: 9/21/2015 12:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682183.4
Date Finished Drilling: 9/21/2015 12:40:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: RK	Project Manager:	Depth to Water:
Physical Location: Site 133 - Halladay Street South		Surface Elevation: 10.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT.	133-P3C-P47A-2.0-2.5
2		0.0	dry	FILL		fine to medium sand, little fine to medium gravel, trace coal and ash, (7.5YR 3/4) dark brown, loose, dry, no odor, no staining.	
3							
4							
5							
6	5	0.0	dry	FILL		fine to medium sand, little fine gravel and ash, trace coal, concrete and debris, (7.5YR 3/1) very dark gray, loose, dry to slightly moist, no odor, no staining.	133-P3C-P47A-14.5-15.0
7							
8							
9							
10							
11	5	0.0	moist	FILL		fine to medium sand, little fine to medium gravel and ash, trace debris, (7.5YR 3/4) dark brown, loose, moist, no odor, no staining.	133-P3C-P47A-15.0-15.5
12							
13							
14							
15							
16	5	0.0	slightly moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 4/3) brown, medium stiff, slightly moist, no odor, no staining. Soils consistent with UNDorg.	133-P3C-P47A-15.5-16.0
17							
18							
19							
20							

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610678.7
Date Started Drilling: 11/20/2014 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682183.4
Date Finished Drilling: 11/20/2014 11:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager:	Depth to Water:
Physical Location: P3C - P47AR		Surface Elevation: 10.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		0.0	dry	FILL		ASH, trace large gravel, trace coal, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	
3							
4	5	0.0	dry	FILL		fine to medium SAND, trace gravel, trace ash, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-P47AR-4.5-5.0
5		0.0	moist	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	
6		0.0	moist	FILL		fine to medium SAND, trace gravel, (10YR 4/4) dark yellowish brown, medium dense, moist, no odor, no staining.	133-P3C-P47AR-6.5-7.0
7		0.0	moist	FILL		ASH, trace coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
8	5	0.0	dry	FILL		fine to medium SAND, trace gravel, (10YR 4/6) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-P47AR-8.5-9.0
9							
10		0.0	moist	SP		UNDno fine to medium SAND, trace large cobbles, (5YR 4/6) yellowish red, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	133-P3C-P47AR-10.5-11.0
11							
12	5						
13							
14							
15		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. SILT, 90% organic silt, 10% organic fibers, (10YR 4/1) dark gray, low plasticity, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	133-P3C-P47AR-14.5-15.0
16	5	0.0	slightly moist	PT			
17		0.0	slightly moist	OL			133-P3C-P47AR-16.5-17.0
18							
19							
20							

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

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



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Boring ID: 133-P3C-Q45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610739.5
Date Started Drilling: 4/7/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682219.5
Date Finished Drilling: 4/7/2014 11:20:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Q45A		Elevation: 12.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, some cinders, little ash, glass, trace coal, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-Q45A-1.0-1.5
2							
3							133-P3C-Q45A-3.0-3.5
4							
5	5	0.0	dry	FILL		fine to medium SAND, some cinders, little brick fragments, coarse gravel, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	133-P3C-Q45A-5.0-5.5
6		0.0	dry	FILL		fine to medium SAND, some cinders, ash, little brick fragments, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.	
7		0.0	moist	FILL		fine to coarse SAND, with cinders, ash, some to little medium gravel, (10YR 4/2) dark grayish brown, loose to medium dense, moist, no odor, no staining.	133-P3C-Q45A-7.0-7.5
8		0.0	moist	FILL		CINDERS, with ash, little wood debris, trace glass, (5YR 2.5/1) black, loose, moist, no odor, no staining.	
9		0.0	dry	FILL		fine to medium SAND, (7.5YR 4/2) brown, medium stiff, dry, no odor, no staining.	133-P3C-Q45A-9.0-9.5
10							
11	5	0.0	wet	FILL		CINDERS, with ash, some fine to medium gravel, (7.5YR 5/1) gray, loose, wet, no odor, no staining.	133-P3C-Q45A-11.0-11.5
12		0.0	wet	FILL		CINDERS, with ash, some fine to medium silty sand, little medium gravel, trace glass, (7.5YR 5/1) gray, loose, wet, no odor, no staining.	
13		0.0	moist to wet	FILL		fine to medium silty SAND, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining.	133-P3C-Q45A-13.0-13.5
14							133-P3C-Q45A-14.5-15.0
15	5	0.0	dry to moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry to moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-Q45A-15.0-15.5
16		0.0	moist	PT			
17		0.0	moist	OL		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 2.5/2) very dark brown, medium stiff, moist, strong organic odor, no staining. Soils consistent with MM.	
18		0.0	moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDno.	
19						UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
20							

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



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Boring ID: 133-P3C-Q46A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610718.6
Date Started Drilling: 4/7/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682199.3
Date Finished Drilling: 4/7/2014 9:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Q46A		Elevation: 12.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, some cinders, little coal, trace brick, trace glass fragments, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	133-P3C-Q46A-0.5-1.0
2							
3							133-P3C-Q46A-2.5-3.0
4							
5	4	0.0	dry to moist	FILL		fine silty SAND, little fine to medium gravel, trace wood fragments, (10YR 4/1) dark gray, soft, dry to moist, no odor, no staining.	
6		0.0	moist	FILL		CINDERS, and ash, little wood fragments, trace coal, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	
7		0.0	dry to moist	FILL		fine to medium silty SAND, trace fine gravel, (10YR 5/2) grayish brown, medium dense, dry to moist, no odor, no staining.	133-P3C-Q46A-6.5-7.0
8		0.0	moist	FILL		CINDERS, some fine to medium sand, little coarse gravel, trace ceramics, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
9				NR		NO RECOVERY	133-P3C-Q46A-8.5-9.0
10	5	0.0	moist to wet	FILL		CINDERS, little coarse gravel, trace ceramic, trace wood fragments, (5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-Q46A-10.5-11.0
11							
12		0.0	moist	FILL		fine to medium silty SAND, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	133-P3C-Q46A-12.8-13.3
13	5	0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-Q46A-13.3-13.8
14							
15		0.0	dry	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, (7.5YR 4/2) brown, medium stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
16		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
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.




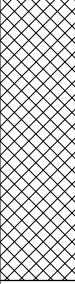
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Boring ID: 133-P3C-Q47A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610710.7
Date Started Drilling: 4/8/2014 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682175.7
Date Finished Drilling: 4/8/2014 12:35:00 PM	Core Size: 2 in	Boring Total Depth: 6 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Q47A		Elevation: 12.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0		CONCRETE		CONCRETE	
			dry	FILL		fine to medium SAND, with cinders, little fine to medium gravel, (7.5YR 3/4) dark brown, firm, dry, no odor, no staining. Refusal @ 6.0 ft bgs. Multiple attempts made offset 2 to 5 feet from Q-47A.	133-P3C-Q47A-1.0-1.5
							133-P3C-Q47A-3.0-3.5
5 6	0	0.0	moist	NR		NO RECOVERY	
6							

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.











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Boring ID: 133-P3C-Q47A-R

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610705.0
Date Started Drilling:	Rig Type:	Coordinates (NJSPNAD83) y: 682172.5
Date Finished Drilling:	Core Size:	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - Q47A-R		Elevation: 10.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.7	0.0	dry	FILL		medium to coarse SAND, with roots, (7.5YR 4/2) brown, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		fine to medium SAND, little medium gravel, trace brick fragments, (10YR 4/3) brown, dense, dry, no odor, no staining.	133-P3C-Q47A-R-1.0-1.5
3		0.0	dry	FILL		fine to medium SAND, and cinders, ash, some fine to medium gravel, trace coal, (10YR 4/1) dark gray, medium dense, dry, no odor, no staining.	133-P3C-Q47A-R-3.0-3.5
4				NR		CINDERS, with ash and coal, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining. NO RECOVERY	
5	4	0.0	wet	FILL		fine to medium silty SAND, and ash, with cinders, little fine to medium gravel, trace brick, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	133-P3C-Q47A-R-5.0-5.5
6							133-P3C-Q47A-R-6.0-6.5
7							
8							133-P3C-Q47A-R-8.0-8.5
9				NR		NO RECOVERY	
10	3	0.0	wet	FILL		fine to medium silty SAND, some wood debris, little fine to medium gravel, (7.5YR 3/1) very dark gray, loose to medium dense, wet, no odor, no staining.	133-P3C-Q47A-R-10.0-10.5
11							133-P3C-Q47A-R-11.3-11.8
12		0.0	moist to wet	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist to wet, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-Q47A-R-11.8-12.3
13				NR		NO RECOVERY	
14							
15	5	0.0	moist to wet	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist to wet, moderate organic odor, no staining. Soils consistent with UNDorg.	
16							
17		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
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.



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Boring ID: 133-P3C-R43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610785.9
Date Started Drilling: 3/31/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682266.2
Date Finished Drilling: 3/31/2014 10:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R43A		Elevation: 12.3 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	4	0.0	moist	FILL		fine to medium SAND, some COPR, little cinders, ash, trace coal, (5YR 4/2) dark reddish gray, moist, no odor, no staining.	
2							
3							
4		0.0	dry	FILL		crushed CONCRETE, (9.5/2.5Y _/1) white, hard, dry, no odor, no staining.	
5	4	0.0	sl. moist to moist	FILL		CINDERS, with ash, little fine gravel, (7.5YR 4/1) dark gray, loose, slightly moist to moist, no odor, no staining.	133-P3C-R43A-4.0-4.5
6		450.0	sl. moist to moist	FILL		CINDERS, with ash, little fine gravel, little silt, (7.5YR 4/1) dark gray, loose, slightly moist to moist, strong hydrocarbon odor, sheen.	133-P3C-R43A-6.0-6.5
7							
8		73.0	moist	FILL		CINDERS, some ash, little fine gravel, (7.5YR 2.5/1) black, loose, moist, moderate hydrocarbon odor, sheen.	133-P3C-R43A-8.0-8.5
9	4	0.0	moist	FILL		sandy SILT, little fine to medium gravel, cinders, trace ash, non plastic, soft, moist, slight petroleum odor, greenish (non-CCPW) staining.	133-P3C-R43A-10.0-10.5
10							
11							
12		0.0	wet	FILL		fine silty SAND, some ash, cinders, trace fine gravel, (10YR 4/2) dark grayish brown, loose to dense, wet, no odor, no staining.	133-P3C-R43A-12.0-12.5
13	4	0.0	sl. moist to moist	FILL		fine silty SAND, little fine gravel, (10YR 4/1) dark gray, dense, slightly moist to moist, slight hydrocarbon odor, no staining.	133-P3C-R43A-14.0-14.5
14							
15		0.0	sl. moist to moist	FILL		fine silty SAND, little fine gravel, (10YR 4/1) dark gray, dense, slightly moist to moist, slight hydrocarbon odor, no staining.	133-P3C-R43A-16.0-16.5
16	4	0.0	sl. moist to moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-R43A-16.5-17.0
17							
18							
19							
20							

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

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Boring ID: 133-P3C-R44A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610772.3
Date Started Drilling: 4/7/2014 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682239.3
Date Finished Drilling: 4/7/2014 9:35:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R44A		Elevation: 12.4 ft NAVD88

(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		FILL		fine to medium SAND, little medium to coarse gravel, trace cinders, coal, (5YR 4/3) reddish brown, medium dense, dry to slightly moist, no odor, no staining. ASH, with cinders, some coal, little fine sand, fine gravel, (10YR 5/6) yellowish brown, loose, slightly moist, no odor, no staining.	133-P3C-R44A-0.5-1.0
2		0.0	dry to slight moist	FILL			133-P3C-R44A-2.0-2.5
3		0.0	slightly moist				
4	4						133-P3C-R44A-4.0-4.5
5		0.0	moist	FILL		ASH, with fine sand, some silt, fine gravel, cinders, coal, (7.5YR 4/1) dark gray, moist, no odor, no staining.	133-P3C-R44A-6.0-6.5
6							
7	5						133-P3C-R44A-8.0-8.5
8				NR		NO RECOVERY	
9							
10	5	0.0	moist	FILL		fine to medium silty SAND, little ash, fine to medium gravel, (5YR 4/2) dark reddish gray, loose to dense, moist, no odor, no staining. ASH, with fine sand, some silt, fine gravel, cinders, coal, (7.5YR 4/1) dark gray, moist, no odor, no staining.	133-P3C-R44A-10.0-10.5
11		0.0	moist	FILL			133-P3C-R44A-12.0-12.5
12							
13	5						133-P3C-R44A-14.0-14.5
14		0.0	moist to wet	FILL		fine to medium silty SAND, little fine gravel, (7.5YR 3/4) dark brown, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-R44A-15.0-15.5
15		0.0	slightly moist	PT			133-P3C-R44A-15.5-16.0
16	5						
17							
18							
19							
20							

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

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3C-R45A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610758.7
Date Started Drilling: 4/7/2014 9:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682212.5
Date Finished Drilling: 4/7/2014 10:40:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R45A		Elevation: 12.2 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	slightly moist	FILL		fine to medium SAND, with ash, some cinders, little coal, fine gravel, (7.5YR 3/4) dark brown, loose, slightly moist, no odor, no staining.	133-P3C-R45A-0.5-1.0
2							133-P3C-R45A-2.0-2.5
3							
4							133-P3C-R45A-4.0-4.5
5	4	0.0	slightly moist	FILL		fine to medium SAND, with ash, some cinders, little coal, fine gravel, (7.5YR 3/4) dark brown, loose, slightly moist, no odor, no staining. fine to medium SAND, with ash, cinders, some fine to medium gravel, (10YR 3/4) dark yellowish brown, loose, moist, no odor, no staining.	133-P3C-R45A-6.0-6.5
6		0.0	moist	FILL			133-P3C-R45A-8.0-8.5
7							
8							
9				NR		NO RECOVERY	
10	5	0.0	moist	FILL		fine to medium silty SAND, some ash, little fine to medium gravel, trace coal, fill material, medium dense, moist, no odor, no staining. ASH, with cinders, coal, some fine sand, silt, fine gravel, trace fill material, fibers, (7.5YR 5/1) gray, loose, moist to wet, no odor, no staining. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/4) dark brown, non plastic, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-R45A-10.0-10.5
11							133-P3C-R45A-12.0-12.5
12							
13		0.0	moist to wet	FILL			133-P3C-R45A-13.5-14.0
14		0.0	slightly moist	PT			133-P3C-R45A-14.0-14.5
15	3	0.0	slightly moist	PT			
16							
17							
18				NR		NO RECOVERY	
19							
20							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610745.3
Date Started Drilling: 4/4/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682185.7
Date Finished Drilling: 4/4/2014 10:40:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R46A		Elevation: 12.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	dry	FILL		fine to medium SAND, little ash, cinders, coal, fine gravel, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	133-P3C-R46A-0.5-1.0
2							
3							133-P3C-R46A-2.5-3.0
4		0.0	dry	FILL		fine to medium SAND, with cinders, some ash, little gravel, brick, trace ceramics, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	133-P3C-R46A-4.5-5.0
5	4	0.0	dry	FILL		CINDERS, with ash, some fine to medium gravel, (5YR 3/1) very dark gray, loose, dry, no odor, no staining.	
6							133-P3C-R46A-6.5-7.0
7							
8		0.0	moist	FILL		fine silty SAND, little ash, trace fill material, medium dense, moist, no odor, no staining.	133-P3C-R46A-8.5-9.0
9				NR		NO RECOVERY	
10	3	0.0	moist to wet	FILL		fine silty SAND, with ash, some cinders, little fine to medium gravel, (10YR 5/1) gray, medium dense, moist to wet, no odor, no staining.	133-P3C-R46A-10.5-11.0
11		0.0	moist to wet	FILL		ASH, with cinders, little wood fragments, coarse gravel, trace ceramics, moist to wet, no odor, no staining.	
12							133-P3C-R46A-12.0-12.5
13		0.0	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, stiff, dry, strong organic odor, no staining. Soils consistent with MM.	133-P3C-R46A-12.5-13.0
14				NR		NO RECOVERY	
15	5	0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, moist, strong petroleum odor, no staining. Soils consistent with MM.	
16							
17		0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
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.




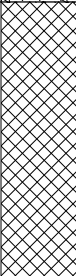
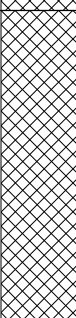
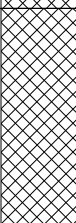


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Boring ID: 133-P3C-R47A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610731.8
Date Started Drilling: 4/8/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682159.0
Date Finished Drilling: 4/8/2014 11:10:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R47A		Elevation: 12.2 ft NAVD88

(Note: bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	5	0.0		CONCRETE		CONCRETE	133-P3C-R47A-1.0-1.5 133-P3C-R47A-3.0-3.5
		0.0	dry to slight moist	FILL		CINDERS, with ash, some fine to medium sand, coal, little fine gravel, trace brick, (10YR 4/2) dark grayish brown, dry to slightly moist, no odor, no staining.	
5 6 7 8 9 10	5	0.0	moist	FILL		ASH, with cinders, some fine sand, little silt, wood fragments, trace ceramics, fill material, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-R47A-5.0-5.5 133-P3C-R47A-7.0-7.5 133-P3C-R47A-9.0-9.5
11 12 13	5	0.0	moist	FILL		ASH, some cinders, fine gravel, trace ceramics, wood fragments, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	133-P3C-R47A-11.0-11.5
14 15		0.0	slightly moist	PT		PEAT (degraded vegetated material), 70% organic silt, 30% organic fibers, (7.5YR 3/3) dark brown, stiff, slightly moist, strong organic odor, no staining. Soils consistent with MM.	133-P3C-R47A-13.5-14.0
16 17 18 19 20	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

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

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30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3C-R48A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610723.0
Date Started Drilling: 4/3/2014 10:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682140.3
Date Finished Drilling: 4/3/2014 12:00:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - R48A		Elevation: 12.2 ft NAVD88

(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 cinders, trace brick, fill material, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.	133-P3C-R48A-0.5-1.0
2							
3							133-P3C-R48A-2.5-3.0
4							133-P3C-R48A-4.5-5.0
5	4	0.0	dry to moist	FILL		fine to medium SAND, with cinders, some gravel, (7.5YR 3/1) very dark gray, medium dense, dry to moist, no odor, no staining.	
6							133-P3C-R48A-6.5-7.0
7							
8							133-P3C-R48A-8.5-9.0
9				NR		NO RECOVERY	
10	3	0.0	wet	FILL		CINDERS, with ash, some fine to coarse gravel, (7.5YR 5/1) gray, loose, wet, no odor, no staining.	133-P3C-R48A-10.5-11.0
11							
12		0.0	moist	FILL		SILT, some ash, little coarse gravel, (7.5YR 4/1) dark gray, (10YR 4/2) dark grayish brown, soft, moist, no odor, no staining.	133-P3C-R48A-11.7-12.2
13		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3C-R48A-12.2-12.7
14				NR		NO RECOVERY	
15	5	0.0	moist	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/2) grayish brown, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
16							
17							
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.

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 133-P3C-S43A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610812.5
Date Started Drilling: 3/31/2014 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682252.8
Date Finished Drilling: 3/31/2014 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S43A		Elevation: 12.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		CONCRETE		CONCRETE	
2		0.0	slightly moist	FILL		COPR, little fine to medium sand, trace crushed concrete, (2.5YR 3/6) dark red, loose to dense, slightly moist, no odor, no staining.	133-P3C-S43A-1.5-2.0
3		0.0	dry to slight moist	FILL		ASH, some cinders, coal, trace wood fragments, (10YR 6/2) light brownish gray, loose, dry to slightly moist, no odor, no staining.	133-P3C-S43A-3.5-4.0
4	4	0.0	moist	FILL		ASH, some cinders, little coal, silt, little fine gravel, fine sand, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	133-P3C-S43A-5.5-6.0
5		203.0	moist	FILL		ASH, some cinders, little coal, silt, little fine gravel, fine sand, (10YR 5/2) grayish brown, loose, moist, strong hydrocarbon odor, no staining.	133-P3C-S43A-7.5-8.0
6		0.0	moist	FILL		CINDERS, some ash, coal, trace fine gravel, (7.5YR 2.5/1) black, moist, no odor, no staining.	133-P3C-S43A-9.5-10.0
7	4	37.0	moist	FILL		fine silty SAND, with cinders, little fine gravel, trace ash, (7.5YR 2.5/1) black, loose to dense, moist, moderate hydrocarbon odor, sheen.	133-P3C-S43A-11.5-12.0
8		0.0	wet	FILL		ASH, some silt, fine sand, cinders, little wood fragments, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S43A-13.5-14.0
9		0.0	moist to wet	FILL		gravelly SAND, some ash, little cinders, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S43A-15.5-16.0
10	2	0.0	moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-S43A-16.2-16.7
11		0.0	moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, soft to stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-S43A-16.7-17.2
12				NR		NO RECOVERY	
13							
14							
15							
16							
17							
18							
19							
20							

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



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Boring ID: 133-P3C-S44A

Page: 1


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610799.2
Date Started Drilling: 4/4/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682226.0
Date Finished Drilling: 4/4/2014 9:55:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: FM	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: P3C - S44A		Elevation: 12.1 ft NAVD88







(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE	
1	5	0.0	slightly moist	FILL		ASH, with cinders, some fine sand, trace glass fragments, trace fine gravel, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	133-P3C-S44A-0.5-1.0
2							
3							133-P3C-S44A-2.5-3.0
4		0.0	slightly moist	FILL		fine to medium sandy ASH, some fine sand, little glass, trace wood fragments, (7.5YR 4/1) dark gray, loose, slightly moist, no odor, no staining.	133-P3C-S44A-4.5-5.0
5	5	0.0	moist	FILL		ASH, some cinders, some fine gray sand, trace silt, trace fill debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	133-P3C-S44A-6.5-7.0
6							
7							
8		0.0	moist to wet	FILL		fine to medium silty SAND, some medium gravel, trace mixed fill debris, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S44A-8.5-9.0
9							
10	5	0.0	slightly moist	FILL		fine to medium silty SAND, some fine gravel, slightly firm, (7.5YR 4/3) brown, loose, slightly moist, no odor, no staining.	133-P3C-S44A-10.5-11.0
11							
12							133-P3C-S44A-12.5-13.0
13		0.0	wet	FILL		ASH, some fine to medium gravel, trace medium to coarse sand, trace coal, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	133-P3C-S44A-14.5-15.0
14							
15	5	0.0	moist to wet	FILL		ASH, some cinders, some medium sand, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	133-P3C-S44A-15.5-16.0
16		0.0	slightly moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/3) brown, stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	133-P3C-S44A-16.0-16.5
17							
18							
19							
20							


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




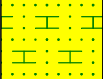

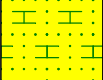
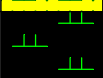
PPG - PPG_LOGS.GDT - 6/24/14 16:14

		Client: PPG Industries		BORING ID: 137-B8		
		Site: Site 137				
Start Date: 1/25/2007		Project: Site Investigation		Page: 1 of 3		
		Coordinates: X-610766.9 Y-682546.5		Depth of Boring: 32.00		
End Date: 1/25/2007		Elevation: 14.2 ft NAVD88		Geologist: P. Kelly		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
		FILL: Gray coarse GRAVEL (asphalt sub-base)			
2		FILL: Dark Reddish Brown (2.5YR 2.5/3) coarse SAND, some fine to coarse Gravel and Silt, little fine Gravel, brick fragments and 20% COPR, dry.	0.0 ppm	137-B8A (1.2-1.4)	MS/MSD, Cr+6, TAL Metals
4		FILL: Dark Reddish Brown (2.5YR 2.5/3) coarse SAND, some fine gravel-sized COPR (30%) and fine Gravel, dry.	22.1 ppm	137-B8B(3.8-4.2) 137-B8BD(3.8-4.2)	Cr+6, TAL Metals Cr+6, TAL Metals
6		FILL: Dark Reddish Brown (2.5YR 2.5/3) coarse SAND, some fine gravel-sized COPR (30%) and fine Gravel, dry.	98.5 ppm	137-B8C(7.0-7.2)	Cr+6, TAL Metals
8		FILL: Black (10YR 2/1) fine SAND, little fine to medium Gravel, petroleum sheen observed, moist. Diesel fuel odor.	0.0 ppm	137-B8D(9.1-9.4)	Cr+6, TAL Metals
		NR: No Recovery			
10		FILL: Grayish Brown (10YR 5/2) coarse SAND, some Silt and Clay, little fine Gravel, wet.	0.0 ppm		
		NR: No Recovery			

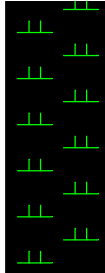
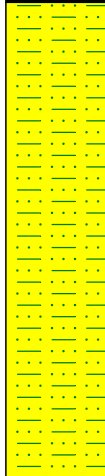
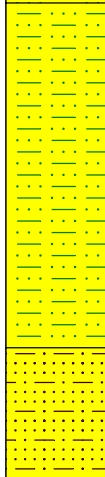

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries		BORING ID: 137-B8	
		Site: Site 137			
Start Date: 1/25/2007		Project: Site Investigation		Page: 2 of 3	
		Coordinates: X-610766.9 Y-682546.5		Depth of Boring: 32.00	
End Date: 1/25/2007		Elevation:		Geologist: P. Kelly	
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters


12		FILL: Lime Green SILT and CLAY, little fine Gravel, moist.	NA		
				137-B8E(13.2-13.5)	Cr+6, TAL Metals
14		FILL: Black (2.5YR 2.5/1) ASH, some fine Sand, little fine Gravel, trace glass and ceramic fragments, moist. Strong organic odor.			
				137-B8F(14.8-15.1)	Cr+6, TAL Metals
		NR: No Recovery			
16		FILL: Black (2.5YR 2.5/1) ASH, some fine Sand, little fine Gravel, trace glass and ceramic fragments, moist. Strong organic odor.			
		SILT AND CLAY: Brown (10YR 4/3) CLAY and SILT, little organics, moist.	0.0 ppm	137-B8G (17.1-17.8)	Cr+6, TAL Metals
18			0.0 ppm		
		NR: No Recovery			
20		SILT AND CLAY: Brown (10YR 4/3) CLAY and SILT, little organics, moist.	0.0 ppm		
		PEAT: Dark Brown (7.5 YR 3/2) CLAY and ORGANICS (meadow mat), moist.	0.0 ppm		

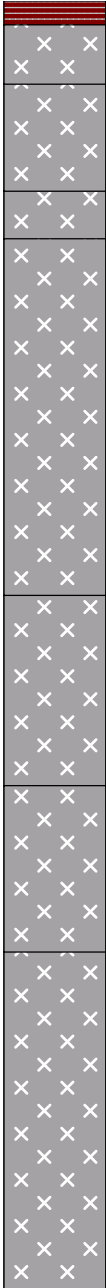
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>		Client: PPG Industries	BORING ID: 137-B8		
		Site: Site 137			
Start Date: 1/25/2007	Project: Site Investigation		Page: 3 of 3		
	Coordinates: X-610766.9 Y-682546.5		Depth of Boring: 32.00		
End Date: 1/25/2007	Elevation:		Geologist: P. Kelly		
	Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters


22			0.0 ppm	137-B8H(22.1-22.4)	Cr+6, TAL Metals
24		CLAYEY SAND: Gray (10YR 5/1) fine SAND, some Clay and Silt, wet.	0.0 ppm	137-B8I(24.9-25.2)	Cr+6, TAL Metals
26		CLAYEY SAND: Gray (10YR 5/1) fine SAND, some Clay and Silt, wet.	NA		
28		SAND AND SILT: Dark Red (2.5YR 3/6) coarse SAND, some Silt, little Clay, trace fine Sand, wet.			
30					
32					
NULL: End of Boring at 32 ft.					

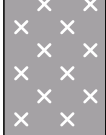
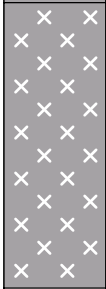
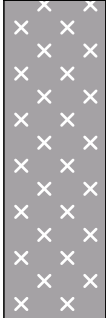
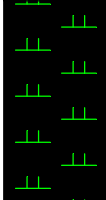
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries		BORING ID: 137-B10		
		Site: Site 137				
Start Date: 1/25/2007		Project: Site Investigation		Page: 1 of 3		
		Coordinates: X-610836.1 Y-682503.7		Depth of Boring: 32.00		
End Date: 1/25/2007		Elevation: 15.3 ft NAVD88		Geologist: P. Kelly		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters


0		ASPHALT: ASPHALT			
		FILL: Gray coarse GRAVEL (asphalt sub-base)	0.0 ppm		
		FILL: Green Gray (Gley 5GY 6/1) coarse SAND, some fine to medium Gravel, little brick fragments, moist.	0.0 ppm	137-B10A (1.0-1.6)	Cr+6, TAL Metals
		FILL: Dark Red (2.5 YF 3/4) CLAY, some coarse Sand, little fine gravel-sized COPR (10%).	0.0 ppm	137-B10B (1.6-2.0)	Cr+6, TAL Metals
2		FILL: Green Gray (Gley 5GY 6/1) SILT and CLAY, some fine Gravel (green-gray mud), wet.	0.0 ppm		
			0.0 ppm	137-B10C (3.0-3.5)	Cr+6, TAL Metals
4					
		FILL: Lime Green SILT and CLAY, little fine Gravel, firm, moist.	0.0 ppm	137-B10D (5.1-5.3)	Cr+6, TAL Metals
6			0.0 ppm		
		FILL: Black stained Pale Brown (10YR 6/3) ASH, some Sand, little finr Gravel, trace glass, ceramic fragments. Strong terpentine odor.	68.3 ppm	137-B10E (6.8-7.2)	Cr+6, TAL Metals
8		FILL: Greenish Gray (5B 6/1) ASH, some fine to medium Gravel and coarse Sand, little ceramic and brick fragments, wet.	12.5 ppm		
			12.5 ppm		
10			11.5 ppm	137-B10F (9.6-10.3)	Cr+6, TAL Metals

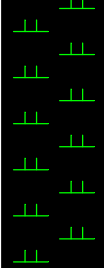
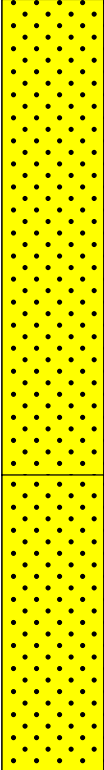
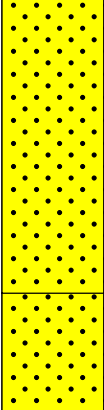
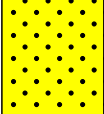

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries		BORING ID: 137-B10		
		Site: Site 137				
Start Date: 1/25/2007		Project: Site Investigation		Page: 2 of 3		
		Coordinates: X-610836.1 Y-682503.7		Depth of Boring: 32.00		
End Date: 1/25/2007		Elevation:		Geologist: P. Kelly		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters


12		FILL: Greenish Gray (5B 6/1) ASH, some fine to medium Gravel and coarse Sand, little ceramic and brick fragments, wet.	11.5 ppm		
			2.7 ppm		
14			2.5 ppm	137-B10G (12.9-13.3)	Cr+6, TAL Metals
			2.5 ppm		
16		NR: No Recovery		137-B10H (15.5-16.0)	Cr+6, TAL Metals
18		FILL: Greenish Gray (5B 6/1) ASH, some fine to medium Gravel and coarse Sand, little ceramic and brick fragments, wet.	10.0 ppm		
			10.0 ppm		
20		NR: No Recovery	0.6 ppm		
			0.0 ppm		
		PEAT: Dark Brown (7.5YR 3/2) CLAY and ORGANICS (meadow mat)	25.6 ppm	137-B10I(20.5-21.0) 137-B10ID(20.5-21.0)	Cr+6, TAL Metals Cr+6, TAL Metals
			25.6 ppm		







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

		Client: PPG Industries		BORING ID: 137-B10		
		Site: Site 137				
Start Date: 1/25/2007		Project: Site Investigation		Page: 3 of 3		
		Coordinates: X-610836.1 Y-682503.7		Depth of Boring: 32.00		
End Date: 1/25/2007		Elevation:		Geologist: P. Kelly		
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID (ppm)	Sample ID	Sample Parameters

22			63.1 ppm		
			63.1 ppm		
24		SAND: Gray (10YR 5/1) fine SAND, some Clay and Silt, little organics, dense. Strong organic odor.	38.0 ppm	137-B10J (23.5-24.0)	MS/MSD, Cr+6, TAL Metals
			38.0 ppm	137-B10K (24.8-25.2)	Cr+6, TAL Metals
			32.5 ppm		
26			32.5 ppm		
			25.5 ppm		
28		SAND: Gray (10YR 5/1) fine SAND, some Clay and Silt, little organics, dense. Strong organic odor.	0.0 ppm		
			0.0 ppm		
30			0.0 ppm		
			0.0 ppm		
		SAND: Dark Red (2.5YR 3/6) coarse SAND, some Silt, little Clay, trace fine Gravel.	0.0 ppm		
		SAND: No Recovery			
32	NULL: End of Boring at 32 ft.				


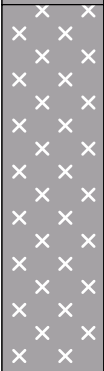
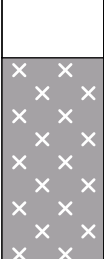
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

		Client: PPG Industries		BORING ID: 137-B12	
		Site: Site 137			
Start Date: 1/23/2007		Project: Site Investigation		Page: 1 of 3	
		Coordinates: X-610923.3 Y-682581.6		Depth of Boring: 32.00	
End Date: 1/23/2007		Elevation: 15.9 ft NAVD88		Geologist: P. Kelly	
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

0		CONCRETE: CONCRETE	0.0 ppm		
		CONCRETE: Dark Gray , fine to coarse GRAVEL with fines (sub-base).		137-B12A (1.2-1.8)	Cr+6, TAL Metals
2		FILL: Dark Red (10R 4/1) CLAY, some fine Sand, Silt, little fine Gravel, trace COPR (5%).	0.0 ppm		
		NR: No Sample			
4		FILL: Dark Red (10R 4/1) CLAY, some fine Sand, Silt, little fine Gravel, trace COPR (5%).	0.0 ppm		
		FILL: Dark Gray (10YR 4/1) ASH, some fine Sand, Silt, and ceramic fragments.		137-B12B (6.3-6.8)	Cr+6, TAL Metals
6		FILL: Dark Gray (10YR 4/1) ASH, some Clay, Silt, brick and glass fragments, wet.	NA		
		FILL: Dark Gray (10YR 4/1) ASH, some fine Sand, Silt, and ceramic fragments.			
8			NA		
10			NA		






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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 137-B12	
		Site: Site 137			
Start Date: 1/23/2007		Project: Site Investigation		Page: 2 of 3	
		Coordinates: X-610923.3 Y-682581.6		Depth of Boring: 32.00	
End Date: 1/23/2007		Elevation:		Geologist: P. Kelly	
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

12		FILL: Black (2.5Y 2.5/1) fine GRAVEL and ASH, some brick and glass fragments, little woody organic material. Strong chemical odor.	0.0 ppm	137-B12C (10.9-11.5)	Cr+6, TAL Metals
		FILL: Black (2.5Y 2.5/1) fine GRAVEL and ASH, some brick and glass fragments, little woody organic material. Strong chemical odor.			
14			0.0 ppm	137-B12D (13.1-13.6)	Cr+6, TAL Metals
			0.0 ppm		
16		NR: No Recovery	0.0 ppm		
18			0.0 ppm	137-B12E (17.8-18.3)	Cr+6, TAL Metals
20		NR: No Recovery	0.0 ppm		
		FILL: Dark Gray (10YR 4/1) ASH, some Clay, Silt, brick and glass fragments, wet.			
			34.3 ppm		

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 137-B12	
		Site: Site 137			
Start Date: 1/23/2007		Project: Site Investigation		Page: 3 of 3	
		Coordinates: X-610923.3 Y-682581.6		Depth of Boring: 32.00	
End Date: 1/23/2007		Elevation:		Geologist: P. Kelly	
		Drill Subcontractor: Terra Probe Incorporated		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID (ppm)	Sample ID	Sample Parameters

22		PEAT: Dark Brown (10YR 3/3) CLAY and ORGANICS (meadow mat). Strong odor.	45.2 ppm	137-B12F (22.0-22.4)	Cr+6, TAL Metals
24		CLAY: Gray (10YR 5/1) CLAY, some Silt and fine Sand, trace organics.	NA	137-B12G (24.5-25.1)	Cr+6, TAL Metals
26			0.0 ppm		
28		NR: No Recovery	NA		
30		SAND: Very Dark Gray (5Y 3/1) fine Sand, some Silt and Clay, trace Gravel, loose, wet.			
32		NULL: End of Boring at 32 ft.			

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

Client: PPG Industries**Site:** Site 137**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** J. Malecki**Drilling Date:** 1/17/2007**Well Completion Date:** 2/21/2007**Elevation:** 13.5 ft NAVD88**State Plane Coordinates** X: 610974.4 Y: 682539.2**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****137-MW4B**

Page: 1 of 4

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 Steel Casing	N/A			Asphalt
		137-4BA (0.6-1.0) Cr+6, TAL Metals				Coarse Gravel, Subsurface macadam, Asphalt subbase
1			N/A			Dusky Red (2.5YR, 3/2) coarse SAND, some fine Gravel, some Silt, little fine gravel sized COPR 10%
		137-4BB (1.5-2.0) Cr+6, TAL Metals				Black (5Y, 2.5/1) coarse SAND and Yellow (5Y, 8/6) coarse sand to coarse gravel sized conglomerate Silt, hard.
2						Cobbles
3			N/A			Black (5Y, 2.5/1) SILT and ASH, some Yellow (5Y8/6) coarse sand to coarse gravel sized Coal, trace woody organics.
4						
5		137-4BC (5.0-5.4) Cr+6, TAL Metals		6		Gray ASH and Fill Material, loose, moist. No odor.
6			N/A	5		
7				5		
8		137-4BD (7.8-8.3) Cr+6, TAL Metals		6		
				4		

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

Client: PPG Industries**Site:** Site 137**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller** J. Malecki**Drilling Date:** 1/17/2007**Well Completion Date:** 2/21/2007**Elevation****State Plane Coordinates** X: 682539.2 Y: 610974.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****137-MW4B**

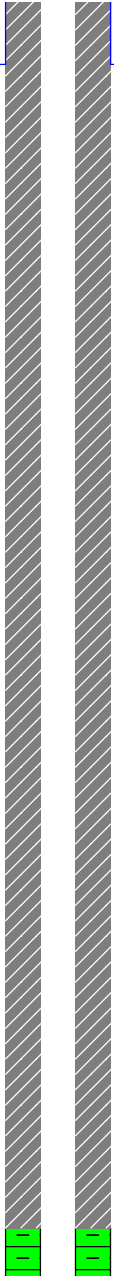
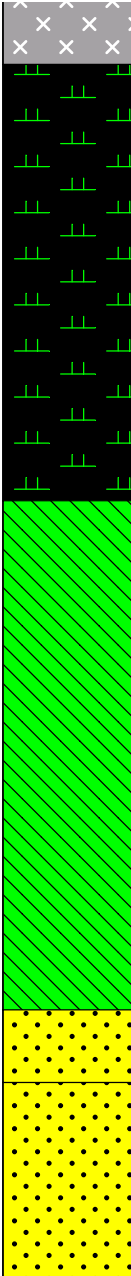
Page: 2 of 4

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
9			N/A	6		
				7		
10				7		
				8		
11				6		
				5		
12		137-4BE (12.0-13.0) Cr+6, TAL Metals 137-4BED (12.0-13.0) Cr+6, TAL Metals		4		
				6		
13				4		
				4		
14			N/A	3		
				4		
15				6		
		137-4BF (15.5-16.1) Cr+6, TAL Metals		5		
16				4		
				4		
17				4		

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

Client: PPG Industries**Site:** Site 137**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** J. Malecki**Drilling Date:** 1/17/2007**Well Completion Date:** 2/21/2007**Elevation****State Plane Coordinates** X: 682539.2 Y: 610974.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****137-MW4B**

Page: 3 of 4

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
18		137-4BG (18.0-18.5) Cr+6, TAL Metals	N/A	3		Black PEAT, organics, cohesive, soft, moist. Sulfur odor.
19		137-4BH (19.0-20.0) MS/MSD, Cr+6, TAL Metals	N/A	2		
20				3		
21		137-4BI (21.0-22.0) MS/MSD, Cr+6, TAL Metals	N/A	2		
22				3		
23		137-4BJ (23.0-24.0) Cr+6, TAL Metals 137-4BJD (23.0-24.0) Cr+6, TAL Metals	N/A	2		
24				3		
25		137-4BK (24.5-25.0) Cr+6, TAL Metals	N/A	5		
26		#00 Sand Seal		5		
				6		Gray Silty fine to medium SAND, loose, wet. no odor.
				7		

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

Client: PPG Industries

Site: Site 137

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

Driller: J. Malecki

Drilling Date: 1/17/2007

Well Completion Date: 2/21/2007

Elevation

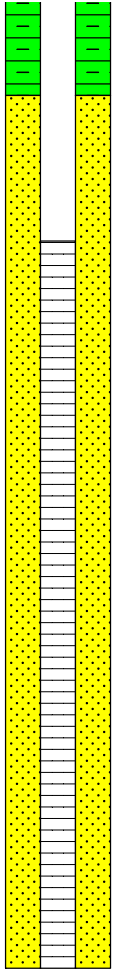
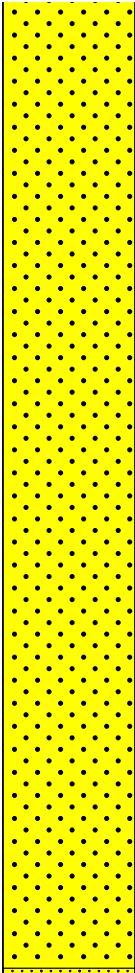
State Plane Coordinates X: 682539.2 Y: 610974.4

Drilling Method: HSA/Mud Rotary

ENSR | AECOM

137-MW4B

Page: 4 of 4

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
27		#1 Sand Filter Pack	N/A	7		
28		137-4BL (28.0-28.5) Cr+6, TAL Metals		5		
				7		
29				8		
30				6		
				8		
31				7		
				6		
32				5		
				7		
33				7		
				7		
34				6		
				5		Weak Red (10R 4/4) very fine SILT and SAND, loose, wet. no odor.
35				5		
				8		
				8		End of boring at 35 ft. Well set at 33 ft.

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




















30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 137-P3B-M31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610814.0
Date Started Drilling: 7/17/2013 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682655.1
Date Finished Drilling: 7/17/2013 10:36:00 AM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - M31A		Elevation: 13.8 ft NAVD88

(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		CONCRETE		CONCRETE	
2	2	0.0	dry	FILL		fine poorly graded SAND, with trace silt, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly, moist, no odor, iron oxide staining.	
3	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly moist, no odor, iron oxide staining.	
4	2	0.0	moist	FILL		COPR, with some fine sand and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
5	2	0.0	moist	FILL		COPR, with some fine sand and trace coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
6	2	0.0	moist	FILL		COPR, with some fine sand and trace coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
7	2	0.0	moist	FILL		COPR, with some fine sand and trace coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
8	1.5	0.0	moist	FILL		COPR, with some fine sand and trace coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
9	1.5	0.0	moist to wet	FILL		FILL MATERIAL, as 10% COPR, 90% ash, cinders and fine to medium gravel, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	
10	2	0.0	moist to wet	NR		NO RECOVERY	
11	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
12	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
13	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
14	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
15	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
16	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
17	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	
18	2	0.0	moist to wet	FILL		GGM, with some fine sand and trace silt, (5GY 4/4) olive green, non plastic, loose, moist to wet, no odor, green staining.	137-P3B-M31A-18.8-19.3
19	2	0.0	wet	FILL		FILL MATERIAL, as ash, cinders with some fine sand and fine to coarse gravel, (7.5YR 3/1) very dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-M31A-20.0-20.5
20	1	0.0	wet	FILL		FILL MATERIAL, as ash, cinders with some fine sand and fine to coarse gravel, (7.5YR 3/1) very dark gray, non plastic, medium dense, wet, no odor, no staining.	
21							

Comments: 1) 3 attempts were made to obtain best recovery.

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30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 137-P3B-M32A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610800.5
Date Started Drilling: 7/16/2013 1:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682628.3
Date Finished Drilling: 7/16/2013 2:55:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - M32A		Elevation: 13.5 ft NAVD88

(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		CONCRETE		CONCRETE	
2	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 5/6) strong brown, loose, dry to slightly, moist, iron oxide staining.	
3	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 5/6) strong brown, loose, dry to slightly moist, iron oxide staining	
4	2	0.0	moist to wet	FILL		COPR, with fine sand and trace fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
5	2	0.0	moist to wet	FILL		COPR, with trace wood fibers, fine sand and some fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
6	2	0.0	moist to wet	FILL		COPR, with fine sand and trace fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
7	2	0.0	moist to wet	FILL		COPR, with fine sand and trace fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
8	2	0.0	moist to wet	FILL		COPR, with fine sand and trace fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
9	2	0.0	moist to wet	FILL		COPR, with fine sand and trace fine to coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, moist to wet, no odor, iron oxide staining.	
10	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
11	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
12	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
13	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
14	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
15	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
16	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
17	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
18	2	0.0	moist to wet	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, loose to medium dense, moist to wet, no odor, green staining.	
19	2	0.0	wet	FILL		fine to coarse well-graded GRAVEL, with silt, ash and some cinders, (7.5YR 3/1) very dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-M32A-19.0-19.5
20	1	0.0	wet	FILL		fine to coarse well-graded GRAVEL, with silt, ash and some cinders, (7.5YR 3/1) very dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-M32A-20.0-20.5
21							

Comments: 1) 3 attempts were made to obtain best recovery.

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Boring ID: 137-P3B-M33A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610787.0
Date Started Drilling: 7/16/2013 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682601.5
Date Finished Drilling: 7/16/2013 11:50:00 AM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - M33A		Elevation: 13.1 ft NAVD88

(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		FILL		CONCRETE	
2		0.0	dry to moist	FILL		fine to medium poorly graded SAND, (7.5YR 5/8) strong brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
3	1.8	0.0	dry to moist	FILL		fine to medium poorly graded SAND, (7.5YR 5/8) strong brown, non plastic, loose, dry to moist, no odor, iron oxide staining, iron staining at 3.3', chromium staining at 3.8'.	
4		0.0	dry to moist	NR FILL		NO RECOVERY	
5	2					COPR, with some silt and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
6		0.0	dry to moist	FILL		COPR, with some silt and trace fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
7	2						
8		0.0	wet	FILL		COPR, with well rounded, poorly graded coarse gravel, (5YR 3/4) dark reddish brown, non plastic, loose, wet to saturated, no odor, iron oxide staining.	
9	1.5						
10		0.0	moist to wet	NR FILL		NO RECOVERY	
11	2					GGM, (5GY 4/4) olive green, non plastic, soft, moist to wet, no odor, green staining.	
12		0.0	moist to wet	FILL		GGM, (5GY 4/4) olive green, non plastic, soft, moist to wet, no odor, green staining.	
13	2						
14		0.0	moist to wet	FILL		GGM, (5GY 4/4) olive green, non plastic, soft, moist to wet, no odor, green staining.	
15	2						
16		0.0	moist to wet	FILL		GGM, (5GY 4/4) olive green, non plastic, soft, moist to wet, no odor, green staining.	
17	2						
18		0.0	moist to wet	FILL		GGM, (5GY 4/4) olive green, non plastic, soft, moist to wet, no odor, green staining.	
19	2						
20		0.0	wet	FILL		fine to medium poorly graded SAND, with fill material, medium to coarse gravel and ash, (5YR 3/4) dark reddish brown, non plastic, loose, wet, no odor, no staining.	137-P3B-M33A-19.5-20.0
21	1	0.0	wet	FILL		FILL MATERIAL, as ash and cinders with some fine to coarse gravel and trace ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-M33A-20.0-20.5

Comments: 1) 3 attempts were made to obtain best recovery.

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Boring ID: 137-P3B-M34A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610773.4
Date Started Drilling: 7/16/2013 8:53:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682574.7
Date Finished Drilling: 7/16/2013 10:33:00 AM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - M34A		Elevation: 12.8 ft NAVD88

(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		CONCRETE		CONCRETE	
2		0.0	moist	FILL		fine to medium well-graded SAND, (7.5YR 5/6) strong brown, non plastic, loose, moist, no odor, iron oxide staining.	
3	1.5	0.0		FILL		fine to medium well-graded SAND, trace COPR, (7.5YR 5/6) strong brown.	
4				NR		NO RECOVERY	
5	1	0.0	dry to moist	FILL		COPR, with fine to medium sand, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining, COPR concentrated at 4.5'.	
6				NR		NO RECOVERY	
7	1	0.0	dry to moist	FILL		COPR, with fine to medium sand, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
8				NR		NO RECOVERY	
9	1.5	0.0	dry to moist	FILL		COPR, with fine to medium sand, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
10				NR		NO RECOVERY	
11	1.7	0.0	dry to moist	FILL		COPR, with fine to medium sand and fine to coarse gravel, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
12				NR		NO RECOVERY	
13	2	0.0	dry to moist	FILL		COPR, with fine to medium sand and fine to coarse gravel, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
14				FILL		COPR, with fine to medium sand and fine to coarse gravel, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
15	2	0.0	dry to moist	FILL		COPR, with fine to medium sand and fine to coarse gravel, (5YR 3/4) dark reddish brown (7.5YR 2.5/2) very dark brown, non plastic, loose, dry to moist, no odor, iron oxide staining.	
16		0.0	dry to wet	FILL		GGM, (5GY 5/2) grayish green, non plastic, soft to medium stiff, dry to wet, no odor, green staining.	
17	2	0.0	dry to wet	FILL		GGM, (5GY 5/2) grayish green, non plastic, soft to medium stiff, dry to wet, no odor, green staining.	
18				FILL		GGM, with trace sand, (5GY 4/4) olive green, non plastic, soft to medium stiff, moist to wet, no odor, green staining.	
19	2	0.0	moist to wet	FILL		SILT, with some fine to coarse gravel fill material, (7.5YR 2.5/2) very dark brown, non plastic, medium dense, wet, no odor.	137-P3B-M34A-19.1-19.6
20				FILL		SILT, with some ceramics and fine to coarse gravel fill material, (7.5YR 2.5/2) very dark brown, non plastic, medium dense, wet, no odor.	137-P3B-M34A-20.0-20.5
21	1	0.0	wet	FILL			

Comments: 1) 3 attempts were made to obtain best recovery.



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Boring ID: 137-P3B-M36A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610746.4
Date Started Drilling: 7/2/2013 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682521.1
Date Finished Drilling: 7/2/2013 11:45:00 AM	Core Size: 3 in	Boring Total Depth: 19 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - M36A		Elevation: 12.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.8	0.0	moist to wet	ASPHALT		ASPHALT	
2	1.8	0.0	moist	FILL		fine to medium SAND, some silt and fine to medium gravel, (10YR 5/2) grayish brown, non plastic, loose, moist to wet, no odor, no staining.	
3	1.8	0.0	moist to wet	NR		fine to medium SAND, with silt and fine to medium gravel, (10YR 3/2) very dark grayish brown, non plastic, stiff, moist, no odor, green staining.	
4	1.8	0.0	moist	FILL		NO RECOVERY	
5	1.7	0.0	moist to wet	NR		fine to medium SAND, some silt and fine to medium gravel, (10YR 5/2) grayish brown, non plastic, loose, moist to wet, no odor, no staining.	
6	1.7	0.0	moist to wet	FILL		SILT, some sand and brick, (7.5YR 3/2) dark brown, non plastic, soft, moist, no odor, no staining, trace white leachate material encountered at 3.3'-3.8' bgs.	
7	1.3	34.6	moist to wet	NR		NO RECOVERY	
8	1.3	34.6	moist to wet	FILL		COPR, trace fine sand, (5YR 3/2) dark reddish brown, non plastic, loose, moist to wet, no odor, no staining.	
9	0.5	48.2	moist to wet	NR		COPR, trace fine sand, (7.5YR 2.5/2) very dark brown, non plastic, loose, moist to wet, no odor, no staining.	
10	0.5	48.2	moist to wet	NR		NO RECOVERY	
11	1.6	3.2	moist to wet	FILL		COPR, trace fine sand, (7.5YR 2.5/2) very dark brown, non plastic, loose, moist to wet, no odor, no staining, petroleum-like odor.	
12	1.6	0.0	moist to wet	NR		NO RECOVERY	
13	1.5	0.0	moist to wet	FILL		SILT, trace fine sand, little wood fragments, (7.5YR 2.5/1) black, non plastic, soft, moist to wet, no odor, no staining, slight sheen and petroleum-like odor.	137-P3B-M36A-12.5-13.0
14	1.5	0.0	moist to wet	NR		NO RECOVERY	
15	2	0.0	moist to wet	FILL		fine to medium SAND, trace silt and fine gravel, (5Y 2.5/1) black, non plastic, soft, moist to wet, no odor.	137-P3B-M36A-14.5-15.0
16	2	0.0	moist	FILL		SILT, with fine sand, little roots, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist, no odor, light sheen on spoon.	
17	2	0.0	moist	FILL		fine SAND, with silt and roots, (7.5YR 4/2) brown, non plastic, soft, moist, no odor.	137-P3B-M36A-16.5-17.0
18	2	0.0	moist	FILL		fine SAND, with silt and roots, (7.5YR 4/2) brown, non plastic, soft, moist, no odor.	137-P3B-M36A-17.0-17.5
19	1	2.1	moist	PT		SILT, trace fine sand and roots, (7.5YR 3/2) dark brown, non plastic, soft, moist, very slight organic odor.	137-P3B-M36A-17.5-18.0
		2.2	moist	PT		UNDorg, 80% organic silt, 20% organic fibers, (7.5YR 3/2) dark brown, non plastic, soft, moist, slight organic odor. Soils consistent with UNDorg.	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, moist, moderate organic odor. Soils consistent with MM.	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, moist, moderate organic odor. Soils consistent with MM.	

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 137-P3B-N32A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610827.3
Date Started Drilling: 7/17/2013 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682614.8
Date Finished Drilling: 7/17/2013 1:35:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - N32A		Elevation: 13.2 ft NAVD88

(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		CONCRETE		CONCRETE	
2	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly moist, no odor, iron oxide staining.	
3	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly moist, no odor, iron oxide staining.	
4	2	0.0	moist	FILL		COPR, with silt and some fine to coarse gravel and trace sand, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
5	2	0.0	moist	FILL		COPR, with silt and some fine to coarse gravel and trace sand, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
6	2	0.0	moist	FILL		crushed COPR, with silt and some and trace sand, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
7	2	0.0	moist	FILL		crushed COPR, with silt and some fine to coarse gravel and trace sand, GGM, (5YR 3/4) dark reddish brown, non plastic, loose, moist, no odor, iron oxide staining.	
8	0.8	0.0	moist	NR		NO RECOVERY	
9	1.1	0.0	wet	FILL		GGM, with silt and trace fine gravel, (5GY 4/4) olive green, non plastic, loose, wet, no odor, green staining.	137-P3B-N32A-10.6-11.1
10	1.1	0.0	wet	FILL		FILL MATERIAL, as cinders, ash, fine sand and some coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose to medium dense, wet, no odor, no staining.	
11	1.7	0.0	wet	FILL		NO RECOVERY	137-P3B-N32A-12.0-12.5
12	1.7	0.0	wet	FILL		FILL MATERIAL, as cinders, ash, fine sand and some coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose to medium dense, wet, no odor, no staining.	
13	2	0.0	wet	NR		NO RECOVERY	
14	2	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	137-P3B-N32A-14.0-14.5
15	2	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	137-P3B-N32A-16.0-16.5
16	2	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	137-P3B-N32A-18.0-18.5
17	2	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	
18	1	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	137-P3B-N32A-20.0-20.5
19	1	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	
20	1	0.0	wet	FILL		FILL MATERIAL, as silt with some fine to medium gravel and some fine sand, (7.5YR 5/1) gray, non plastic, medium dense, wet to saturated, no odor, no staining.	
21							

Comments: 1) 3 attempts were made to obtain best recovery.



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Boring ID: 137-P3B-N36A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610773.2
Date Started Drilling: 12/19/2013 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682507.7
Date Finished Drilling: 12/19/2013 9:30:00 AM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: R. Kantor	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - N36A		Elevation: 11.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		CONCRETE	
1.0		0.0	moist	3	FILL		fine to medium silty SAND, some gravel, (2.5YR 4/2) weak red, non plastic, loose, moist, no odor, no staining.	
		0.0	moist	4B	FILL		COPR, some fine to medium sand, some fill material, (5YR 4/3) reddish brown, non plastic, loose, moist, no odor, no staining.	
2.0	5	21.2	moist	4B	FILL		fine to medium SAND, some COPR, some fill material, (10YR 2/2) very dark brown, non plastic, loose, moist, moderate petroleum odor, no staining.	
3.0		137	moist to wet	4A	FILL		COPR, little sand, little gravel, (5YR 2.5/2) dark reddish brown, non plastic, medium dense, moist to wet, strong petroleum odor, no staining.	
4.0								
5.0		147	wet	4B	FILL		fine to medium SAND, some COPR, some gravel, (5YR 2.5/1) black, non plastic, loose, wet, strong petroleum odor, sheen.	
6.0	5	100	wet	4B	FILL		GGM, some COPR, some cinders, (5YR 2.5/1) black, non plastic, loose, wet, strong petroleum odor, sheen.	
7.0		33.4	moist to wet	5	FILL		GGM, some cinders, little sand and gravel, (5GY 5/4) light olive green, non plastic, medium dense, moist to wet, slight petroleum odor.	
8.0								
9.0								
10.0		45.7	wet	3	FILL		CINDERS, little sand, little gravel, (10YR 4/2) dark grayish brown, non plastic, dense, wet, slight petroleum odor, no staining, little fill material, glass, metal, ceramic, wood.	137-P3B-N36A-10.0-10.5
11.0	5							
12.0								137-P3B-N36A-12.0-12.5
13.0								
14.0		0.0	moist to wet	3	FILL		fine silty SAND, little fine cinders, (10YR 2/2) very dark brown, low plasticity, soft, moist to wet, no staining, slight burnt odor.	137-P3B-N36A-14.0-14.5
15.0		0.0	moist to wet	3	FILL		fine to medium silty SAND, some cinders, (10YR 2/2) very dark brown, non plastic, loose to medium dense, moist to wet.	
16.0	5							137-P3B-N36A-16.0-16.5
17.0								
18.0								137-P3B-N36A-18.0-18.5
19.0								
20.0		0.0	wet	3	FILL		fine to medium silty SAND, little gravel, little cinders, (10YR 3/3) dark brown, non plastic, medium dense, wet, no odor, no staining.	137-P3B-N36A-20.0-20.5
21.0	2	0.0	moist to wet	3	FILL		fine silty SAND, little organic silt, little roots, (10YR 3/2) very dark grayish brown, low plasticity, soft, moist to wet, no odor, no staining, slight burnt odor.	
22.0								

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

PPG - PPG_LOGS.GDT - 1/2/14 15:57



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Boring ID: 137-P3B-O32A

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610854.0
Date Started Drilling: 7/17/2013 1:54:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682601.3
Date Finished Drilling: 7/17/2013 3:11:00 PM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 136 - O32A		Elevation: 13.2 ft NAVD88

(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		CONCRETE		CONCRETE	
2	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly moist, no odor, iron oxide staining.	
3	2	0.0	dry	FILL		fine poorly graded SAND, (7.5YR 4/6) strong brown, non plastic, loose, dry to slightly moist, no odor, iron oxide staining.	
4	2	0.0	dry	FILL		fine poorly graded SAND, with fill materials including brick and glass fragments, sub-angular fine to medium sized gravel, (7.5YR 5/6) strong brown, medium plasticity, loose to medium dense, dry to moist, no odor, iron oxide staining.	
5	2	0.0	moist	FILL		GGM, with silt and trace fine sand, (5GY 4/4) olive green, non plastic, medium dense, moist, no odor, green staining.	
6	2	0.0	moist	FILL		crushed poorly graded COPR, with sand, (5YR 3/4) dark reddish brown, non plastic, medium dense, moist, no odor, iron oxide staining.	
7	2	0.0	moist	FILL		crushed poorly graded COPR, with sand, (5YR 3/4) dark reddish brown, non plastic, medium dense, moist, no odor, iron oxide staining.	
8	2	0.0	moist	FILL		crushed poorly graded COPR, with sand, (5YR 3/4) dark reddish brown, non plastic, medium dense, moist, no odor, iron oxide staining.	
9	2	0.0	moist	FILL		GGM, with some fine sand and fine to coarse gravel with traces of ash and cinders, (5GY 6/2) light grayish green, non plastic, loose to medium dense, moist to wet, no odor, green staining, heavy chromium staining at 9.7'.	137-P3B-O32A-10.4-10.9
10	2	0.0	wet	FILL		GGM, with sand and trace fine gravels, (5GY 4/4) olive green, non plastic, loose to medium dense, moist, no odor, green staining.	137-P3B-O32A-10.4-10.9X
11	2	0.0	wet	FILL		well-graded GRAVEL, as fine to medium gravel with sand and silt with some ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O32A-12.0-12.5
12	2	0.0	wet	FILL		well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O32A-14.0-14.5
13	2	0.0	wet	FILL		well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O32A-16.0-16.5
14	2	0.0	wet	FILL		well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O32A-18.0-18.5
15	2	0.0	wet	FILL		well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O32A-20.0-20.5
16	1	0.0	wet	FILL		well-graded GRAVEL, with fine to medium gravel with sand and some silt, ash and cinders and trace glass fragments, (7.5YR 4/1) dark gray, non plastic, medium dense, wet, no odor, no staining.	
17							
18							
19							
20							
21							

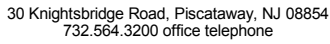
Comments: 1) 3 attempts were made to obtain best recovery.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610813.5
Date Started Drilling: 7/8/2013 10:22:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682520.9
Date Finished Drilling: 7/8/2013 1:20:00 PM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - O35A		Elevation: 12.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	slightly moist	ASPHALT		ASPHALT, some fine to medium sand, some gravel, little silt, (10YR 2/1) black, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL		COPR, (7.5YR 4/6) strong brown, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL		GGM, (10YR 4/6) dark yellowish brown, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL		GGM, (5GY 6/4) pale yellowish green, non plastic, medium dense, slightly moist.	
		0.0	slightly moist	FILL		GGM, (5GY 6/4) pale yellowish green, non plastic, medium dense, slightly moist.	
		0.0	moist	FILL		CINDERS, little ash, little salt precipitate, (10YR 2/1) black, non plastic, medium dense, moist.	
		0.0	moist	FILL		CINDERS, little ash, (10YR 2/1) black, non plastic, medium dense, moist.	
		0.0	moist	FILL		GGM, some cinders, little salt precipitate, (7.5YR 5/4) brown, non plastic, dense, moist.	
		0.0	moist	FILL		CINDERS, some ash, little GGM, little salt precipitate, (10Y 4/2) dark grayish olive, non plastic, dense, moist, green staining.	137-P3B-O35A-6.0-6.5
		0.0	moist to wet	FILL		ASH, some cinders, (10YR 4/1) dark gray, non plastic, loose, moist to wet.	
		0.0	moist to wet	NR FILL		NO RECOVERY	137-P3B-O35A-8.0-8.5
		0.0	moist to wet	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet.	
		0.0	wet	FILL		ASH, some cinders, little wood, (10YR 4/1) dark gray, non plastic, loose, wet.	137-P3B-O35A-10.0-10.5
		0.0	moist to wet	FILL		ASH, some cinders, little wood, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet.	137-P3B-O35A-12.0-12.5
		0.0	moist to wet	FILL		ASH, some cinders, (10YR 3/1) very dark gray, non plastic, medium dense, moist to wet.	137-P3B-O35A-14.0-14.5
		0.0	moist to wet	FILL		ASH, some cinders, little coal, (10YR 4/1) dark gray, non plastic, medium dense, moist to wet, slight sulfur odor.	137-P3B-O35A-16.0-16.5
		0.0	moist to wet	FILL		ASH, some cinders, some fine to coarse sand, (10YR 4/1) dark gray, non plastic, dense, moist to wet.	137-P3B-O35A-18.0-18.5
		0.0	moist to wet	FILL		ASH, some cinders, some gravel, some fine to coarse sand, (10YR 3/2) very dark grayish brown, non plastic, dense, moist to wet.	137-P3B-O35A-20.0-20.5
		0.0	moist	FILL		fine silty SAND, little coal, little roots, (10YR 2/2) very dark brown, low plasticity, medium dense, moist.	
		0.0	moist	ML		SILT, some organics, some roots, (10YR 3/2) very dark grayish brown, low plasticity, medium stiff, moist, slight sulfur odor. Soils consistent with UNDno.	
		0.0	moist	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, non plastic,	

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



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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610813.5
Date Started Drilling: 7/8/2013 10:22:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682520.9375
Date Finished Drilling: 7/8/2013 1:20:00 PM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - O35A		

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
						loose, moist, moderate sulfur odor. Soils consistent with MM.	

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

PPG - PPG_LOGS.GDT - 8/16/13 08:51



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Boring ID: 137-P3B-O36A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610800.0
Date Started Drilling: 12/19/2013 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682494.2
Date Finished Drilling: 12/19/2013 10:18:00 AM	Core Size: 3 in	Boring Total Depth: 21 ft
Logged By: R. Kantor	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - O36A		Elevation: 11.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		CONCRETE	
1.0		0.0	dry	4A	FILL		COPR, little gravel, (5YR 4/4) reddish brown, non plastic, loose, dry, no odor, no staining.	
2.0	5							
3.0		0.0	moist to wet	5	FILL		GGM, (5GY 5/4) light olive green, non plastic, dense, moist to wet, no odor, green staining.	
4.0								
5.0		0.0	moist to wet	5	FILL		GGM, some fine to medium sand, (2.5Y 4/2) dark grayish brown, non plastic loose, moist to wet.	
6.0								
7.0	5	68.5	wet	3	FILL		CINDERS, little silt, little oil-like material, (10YR 4/1) dark gray, non plastic, medium dense, wet, moderate petroleum odor, sheen.	137-P3B-O36A-6.8-7.3
8.0		65.9	wet	3	FILL		CINDERS, little gravel, trace paper pulp, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O36A-8.8-9.3
9.0								
10.0		0.0	wet	3	FILL		CINDERS, some gravel, some fill material, (10YR 5/1) gray, non plastic, dense, wet, no odor, no staining.	137-P3B-O36A-10.8-11.3
11.0	5							
12.0								
13.0								137-P3B-O36A-12.8-13.3
14.0								
15.0		0.0	wet	3	FILL		CINDERS, (10YR 5/1) gray, non plastic, medium dense, wet, no odor, no staining.	137-P3B-O36A-14.8-15.3
16.0	5							
17.0								137-P3B-O36A-16.8-17.3
18.0								
19.0		0.0	moist	3	FILL		fine silty SAND, little cinders, little roots, (10YR 2/2) very dark brown, low plasticity, soft, moist, no staining, slight burnt odor.	137-P3B-O36A-18.8-19.3
20.0	1	0.0	moist	3	FILL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, low plasticity, medium stiff, moist, moderate organic odor, no staining.	137-P3B-O36A-20.0-20.5
21.0								

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

PPG - PPG_LOGS.GDT - 1/2/14 15:57

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610826.8
Date Started Drilling: 7/8/2013 8:49:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682480.7
Date Finished Drilling: 7/8/2013 10:20:00 AM	Core Size: 3 in	Boring Total Depth: 20.5 ft
Logged By:	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - P36A		Elevation: 12.4 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0.6	0.0	dry	ASPHALT		ASPHALT, (10YR 3/1) very dark gray, non plastic, dense, dry.	
		0.0	dry	FILL NR		COPR, some fine to medium sand, some gravel, (7.5YR 4/3) brown, non plastic, loose, dry.	
2		0.0	slightly moist	FILL		NO RECOVERY	
3	2	0.0	moist to wet	FILL		COPR, little gravel, (7.5YR 4/3) brown, non plastic, medium dense, slightly moist.	
4		0.0	moist to wet	FILL		GGM, (5Y 6/2) light olive gray, non plastic, loose, moist to wet.	
5	2	0.0	moist to wet	FILL		GGM, (7.5YR 6/2) pinkish gray, non plastic, loose, moist to wet.	
6		0.0	moist to wet	FILL		GGM, (5Y 5/2) olive gray, non plastic, loose, moist to wet.	
7	2	0.0	moist	FILL		ASH, some cinders some GGM, (5Y 5/2) olive gray (10Y 5/2) grayish olive, non plastic, medium dense, moist.	137-P3B-P36A-7.0-7.5
8		0.0	moist	FILL		ASH, some cinders little coal, (10YR 4/1) dark gray, non plastic, medium dense, moist, strong petroleum odor.	
9	1.5	0.0	moist	FILL		ASH, some cinders, little wood fragments, little glass, (10YR 4/1) dark gray, non plastic, medium dense, moist, slight petroleum odor.	137-P3B-P36A-9.0-9.5
10				NR		NO RECOVERY	
11	1.5	0.0	wet	FILL		ASH, some cinders, some gravel, little ceramics, (10YR 4/1) dark gray, non plastic, loose, wet.	137-P3B-P36A-11.0-11.5
12				NR		NO RECOVERY	
13	2	0.0	wet	FILL		ASH, some cinders, some fine to medium sand, little gravel, trace glass, (10YR 3/1) very dark gray, non plastic, loose, wet.	137-P3B-P36A-13.0-13.5
14		0.0	wet	FILL		ASH, some cinders, some gravel, little paper, (10YR 4/1) dark gray, non plastic, medium dense, wet.	
15	1.7						137-P3B-P36A-15.0-15.5
16		0.0	wet	NR		NO RECOVERY	
17	1.7	0.0	moist	FILL		ASH, some cinders, some fine to medium sand, (10YR 4/1) dark gray, non plastic, medium dense, wet.	
18		0.0	moist	FILL		organic SILT, little ash, (10YR 2/1) black, medium plasticity, soft, moist.	137-P3B-P36A-17.0-17.5
19	1.5	0.0	moist	NR		fine silty SAND, trace ash, (10YR 2/2) very dark brown, non plastic, medium dense, moist.	
20		0.0	moist	FILL		NO RECOVERY	137-P3B-P36A-18.5-19.0
		0.0	moist	ML		fine silty SAND, little ash, trace coal, (10YR 2/2) very dark brown, low plasticity, loose, moist.	137-P3B-P36A-19.0-19.5
		0.0	moist	PT		sandy SILT, some roots, little clay, (10YR 2/2) very dark brown, medium plasticity, soft, moist. Soil consistent with UNDno.	
						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 3/3) dark brown, medium plasticity, soft, moist, slight sulfur odor. Soils consistent with MM.	

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



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Boring ID: 137-P3B-Q36A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610853.6
Date Started Drilling: 12/20/2013 7:48:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682467.2
Date Finished Drilling: 12/20/2013	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: R. Kantor	Project Manager: Chris Martell	Depth to Water:
Physical Location: Site 137 - Q36A		Elevation: 13.2 ft NAVD88

(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
1.0	5	0.0	dry to moist	2	ASPHALT		ASPHALT	
		0.0		4B	FILL		COPR, some gravel, little GGM, (2.5YR 3/4) dark reddish brown, non plastic, medium dense, dry to moist, no odor, green staining.	
2.0		0.0	moist to wet	5	FILL		GGM, (10Y 5/2) grayish olive, non plastic, loose, moist to wet.	
3.0	5							
4.0								
5.0								
6.0	5	0.0	moist to wet	5	FILL		GGM, little COPR, (2.5YR 5/1) reddish gray, non plastic, medium dense, moist to wet.	
7.0								
8.0		0.0	wet	3	FILL		fine to coarse CINDERS, little wood fragments, little glass, little metal, (10YR 4/1) dark gray, non plastic, dense, wet, slight garbage odor.	137-P3B-Q36A-7.5-8.0
9.0	3							
10.0								
11.0		0.0	wet	3	FILL		fine to coarse CINDERS, little wood fragments, little glass, little ceramics, (10YR 4/1) dark gray, non plastic, dense, wet, burnt garbage odor.	137-P3B-Q36A-9.5-10.0
12.0	5							
13.0								
14.0								
15.0	5	0.0	wet	3	FILL		fine to coarse CINDERS, little glass, little ceramics, little metal, (10YR 4/1) dark gray, non plastic, dense, wet, burnt odor.	137-P3B-Q36A-11.5-12.0
16.0								137-P3B-Q36A-13.5-14.0
17.0								
18.0	5	10.2	moist	3	FILL		fine silty SAND, little oil-like material, (10YR 2/1) black, low plasticity, medium dense, moist, slight HC odor.	137-P3B-Q36A-15.5-16.0
19.0		4.3	moist	3	FILL		SILT, little fine sand, little cinders, (7.5YR 3/2) dark brown, medium plasticity, soft, moist.	137-P3B-Q36A-17.5-18.0
20.0		15.7	moist	7	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (10YR 4/3) brown, high plasticity, medium stiff, moist, slight sulfur odor. Soils consistent with UNDorg.	137-P3B-Q36A-18.5-19.0
								137-P3B-Q36A-19.0-19.5

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



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Boring ID: 137-P3B-R36A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610868.9
Date Started Drilling: 7/11/2013 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682450.7
Date Finished Drilling: 7/11/2013 10:00:00 AM	Core Size: 3 in	Boring Total Depth: 19 ft
Logged By: MI	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - R36A		Elevation: 12.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		ASPHALT		ASPHALT	
		0.0		CONCRETE		crushed CONCRETE, and coarse gravel	
		0.0	dry	FILL		COPR, some fine silty sand, (2.5YR 3/6) dark red, non plastic, loose, dry, no odor, no staining.	
2	2	0.0	dry	FILL		fine to medium SAND, with cinders, coal, ash, trace COPR, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	
3		0.0	slightly moist	FILL		GGM, some fine sand, little COPR, (5GY 5/4) light olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
4		0.0	slightly moist	FILL		GGM, some fine sand, little COPR, (5GY 5/4) light olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
5	2	0.0	slightly moist	FILL		GGM, some fine sand, little COPR, (5GY 5/4) light olive green, low plasticity, soft to stiff, slightly moist, no odor, green staining.	
6		0.0	wet	FILL		ASH, some cinders, coal, little GGM, (5GY 6/4) pale yellowish green, non plastic, loose, wet, no odor, green staining.	
7		0.0	slightly moist	FILL		fine to medium silty SAND, with cinders, coal, ash, some wood fragments, (10YR 3/2) very dark grayish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	137-P3B-R36A-6.3-6.8
8	1.3	0.0	slightly moist	NR		NO RECOVERY	137-P3B-R36A-8.3-8.8
9		0.0	dry	FILL		fine to medium silty SAND, with cinders, coal, little brick, fine to medium gravel, (5YR 5/4) reddish brown, non plastic, loose to soft, slightly moist, no odor, no staining.	
10		0.0	dry	NR		NO RECOVERY	
11	1.5	0.0	wet	FILL		CINDERS, with ash and coal, little fine gravel, (7.5YR 2.5/1) black, non plastic, loose, dry, no odor, no staining.	137-P3B-R36A-10.3-10.8
12		0.0	wet	FILL		ASH, with cinders, coal, trace wood fragments, ceramics, fill material, (5GY 6/4) pale yellowish green, non plastic, loose, wet, no odor, green staining.	
13		0.0	wet	FILL		ASH, with cinders, coal, some wood fragments, ceramics, (5GY 6/4) pale yellowish green, non plastic, loose, wet, no odor.	
14	1.7	0.0	wet	NR		NO RECOVERY	137-P3B-R36A-12.3-12.8
15		0.0	wet	FILL		ASH, and cinders, some coal, wood fragments, (5GY 6/4) pale yellowish green, non plastic, loose, wet, no odor, green staining.	
16		0.0	wet	FILL		NO RECOVERY	
17	1.8	0.0	slightly moist	NR		NO RECOVERY	137-P3B-R36A-14.3-14.8
18		0.0	slightly moist	FILL		SILT, some fine sand, little roots, trace ash, (7.5YR 4/3) brown, low plasticity, soft, slightly moist, no odor, no staining.	
19		0.0	slightly moist	FILL		NO RECOVERY	
18	1	2.1	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.	137-P3B-R36A-16.3-16.8
19		2.4	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.	
19		2.4	dry	PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, non plastic, stiff, dry, strong organic odor. Soils consistent with MM.	

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















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Boring ID: 137-P3B-S32A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610961.2
Date Started Drilling: 7/19/2013 9:52:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682547.3
Date Finished Drilling: 7/19/2013 11:30:00 AM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: JF	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - S32A		Elevation: 14.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0	dry	ASPHALT		ASPHALT	
		0.0	dry	FILL		crushed well-graded GRAVEL, with sand and silt, trace coal, (7.5YR 4/3) brown, non plastic, loose, dry to slightly moist, no odor, no staining.	
2		0.0	dry	FILL		crushed COPR, with some sand and silt, trace glass fragments, (5YR 3/4) dark reddish brown, non plastic, loose to medium dense, dry to moist, no odor, iron oxide staining.	
3	2	0.0	moist	FILL		GGM, with trace fine to medium gravel, (5GY 4/4) olive green, non plastic, loose, moist, no odor, green staining.	
4		0.0	moist	FILL		medium to coarse well-graded ASH, with fine to medium gravel, some sand and silt, (7.5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining.	
5	1.3			NR		NO RECOVERY	
6		0.0	moist	FILL		medium to coarse well-graded ASH, with fine to medium gravel, some sand and silt, (7.5YR 4/1) dark gray, non plastic, medium dense, moist, no odor, no staining.	
7	1.3			NR		NO RECOVERY	
8		0.0	moist to wet	FILL		fine SAND, with ash and some fine to coarse gravel, wood fibers, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	
9	1			NR		NO RECOVERY	
10		0.0	moist to wet	FILL		fine poorly graded SAND, with ash and some fine to medium gravel, trace coal and ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	
11	1.3			NR		NO RECOVERY	
12		0.0	wet	FILL		GGM, with trace silt and sand, (5GY 6/2) light grayish green, non plastic, loose, wet, no odor, green staining.	137-P3B-S32A-12.3-12.8
13	2	0.0	moist to wet	FILL		fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-S32A-14.0-14.5
14		0.0	moist to wet	FILL		fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	
15	1.7			NR		NO RECOVERY	
16		0.0	moist to wet	FILL		fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-S32A-16.0-16.5
17	1.5			NR		NO RECOVERY	
18		0.0	moist to wet	FILL		fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-S32A-18.0-18.5
19	1.7			NR		NO RECOVERY	
20		0.0	moist to wet	FILL		fine poorly graded LEAN CLAY, with ash and some fine to medium gravel, trace coal and wood fragments, ceramics, (7.5YR 3/1) very dark gray, non plastic, medium dense, moist to wet, no odor, no staining.	137-P3B-S32A-20.0-20.5
21	2			PT		PEAT (degraded vegetated material), 80% wood fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, non plastic, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	137-P3B-S32A-20.7-21.2
22		1.8	moist	PT			137-P3B-S32A-21.2-21.7

Comments: 1) 3 attempts were made to obtain best recovery.

PPG - PPG_LOGS.GDT - 8/8/13 12:43



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Boring ID: 137-P3B-S33A

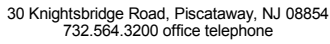
Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610947.7
Date Started Drilling: 7/3/2013 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682520.5
Date Finished Drilling: 7/3/2013 12:10:00 PM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - S33A		Elevation: 13.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.7	0.0	dry	2	ASPHALT		ASPHALT, with coarse gravel.	
		0.0	to moist	3	FILL		fine to medium SAND, with fine to medium gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry to moist, no odor, no staining.	
		0.0	moist	4A	FILL		COPR, with silt, (5YR 3/4) dark reddish brown, non plastic, soft, moist, no odor, no staining.	
2				NR	NR		NO RECOVERY	
3	1.8	0.0	moist	4A	FILL		COPR, with silt, (5YR 3/4) dark reddish brown, non plastic, soft, moist, no odor, no staining.	
4		0.0	moist	5	FILL		GGM, with COPR and fine sand, (5GY 4/2) dark greyish brown, non plastic, soft to medium dense, moist, no odor, green staining.	
		0.0	dry	NR	NR		NO RECOVERY	
5	2	0.0	to moist	3	FILL		fine to medium SAND, with fine gravel and wood fragments, (5YR 4/3) reddish brown, non plastic, loose, dry to moist, no odor, no staining.	137-P3B-S33A-5.0-5.5
		0.0	dry	6	FILL		fine to medium SAND, some silt, glass fragments, wood fragments and ash, (7.5YR 3/2) dark brown, non plastic, loose, dry, moderate chemical odor, no staining.	137-P3B-S33A-5.0-5.5X
6		0.0	dry	6	FILL		ASH, with fine to coarse sand and wood fragments, trace ceramics, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
7	1.8	0.0	moist	3	FILL		ASH, with fine to coarse sand and wood fragments, trace ceramics, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	137-P3B-S33A-6.5-7.0
8		0.0	to wet	NR	NR		fine to medium SAND, with silt and fine to coarse gravel, with some ceramics and wood fragments, (7.5YR 3/1) very dark gray, non plastic, loose, moist to wet, no odor, no staining.	
9	1.7		moist	3	FILL		NO RECOVERY	137-P3B-S33A-8.5-9.0
10		0.0	to wet	NR	NR		medium SAND, and silt with medium to coarse gravel, with trace wood fragments, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist to wet, no odor, no staining.	
11	1.6		wet	3	FILL		NO RECOVERY	137-P3B-S33A-10.5-11.0
12		0.0		NR	NR		medium SAND, and silt with medium to coarse gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist to wet, no odor, no staining.	
13	2			3	FILL		fine to medium SAND, and silt with fine to coarse gravel, little ceramics, (7.5YR 3/1) very dark gray, non plastic, loose, wet, no odor, no staining.	137-P3B-S33A-12.5-13.0
14		0.0	moist	6	FILL		ASH, with fine to medium sand and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	
15	1.4		moist	3	FILL		fine to medium SAND, trace silt and roots, some fine gravel and ceramics, (7.5YR 3/2) dark brown, non plastic, loose, moist, no odor, no staining.	137-P3B-S33A-14.5-15.0
16		0.0	moist	3	FILL		NO RECOVERY	
17	1.5			NR	NR		ASH, with fine to medium sand and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	137-P3B-S33A-16.5-17.0
18		0.0	moist	6	FILL		fine to medium SAND, with fill material and ceramics, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	
19	2			7	PT		ASH, with fine to medium sand and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	137-P3B-S33A-18.5-19.0
20		0.0	moist	6	FILL		NO RECOVERY	137-P3B-S33A-19.5-20.0
21	2	0.0	moist	3	FILL		ASH, with fine to medium sand and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	137-P3B-S33A-20.0-20.5
		2.4	moist	7	PT		ASH, with fine to medium sand and fine to medium gravel, with fill material and ceramics, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	137-P3B-S33A-20.5-21.0
22							ASH, with fine to medium sand and fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose to soft, moist, no odor, no staining.	137-P3B-S33A-21.0-21.5
							SILT, with ash and glass fragments, (7.5YR 2.5/1) black, non plastic, soft, moist, no odor, no staining.	
							PEAT (degraded vegetated material), with 80% organic	

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



Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610947.6875
Date Started Drilling: 7/3/2013 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682520.5625
Date Finished Drilling: 7/3/2013 12:10:00 PM	Core Size: 3 in	Boring Total Depth: 22 ft
Logged By: EW	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Site 137 - S33A		

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
							<div>fibers and 20% organic silt, (7.5YR 2.5/3) very dark brown, non plastic, stiff, moist, slight organic odor, no staining. Soils consistant with MM.</div>	

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

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



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Boring ID: EF-24

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610663.9
Date Started Drilling: 4/15/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682396.5
Date Finished Drilling: 4/18/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: A. Salazar, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.5 ft
Physical Location:		Elevation: 14.7 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	3	Fill		Brown (10YR 4/3) fine SILTY SAND, some Fill Material, trace Coal Ash, loose, dry. No odor.	EF-B24_0.0
2		0						EF-B24_2.0
3		0						EF-B24_2.5
4		0	dry	3	Fill		Red Brick and Mortar (Foundation)	EF-B24_4.0
5		0	moist	6	Fill		Dark Reddish Brown (5YR 3/2) medium SILTY SAND, some Fill Material (cinders, ash, gravel), loose, moist. No odor.	
6		0						EF-B24_6.0
7			wet	6	Fill		Gray (2.5Y 5/1) ASH and CINDERS, little Silt, loose, wet. No odor.	EF-B24_6.5
8					Fill		No Recovery	
9								
10		0						EF-B24_10.0
11		0	moist	6	Fill		Dark Reddish Brown (5YR 3/2) medium SILTY SAND, some Fill Material (cinders, ash, gravel), loose, moist. No odor.	EF-B24_10.0X
12								EF-B24_11.5
13	1.8				Fill		No Recovery	
14								
15		0						
16		0.3	moist	7	OL		Black Organic SILT, medium dense, moist. No odor.	
17		14.8	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B24_16.0
18	2.8							EF-B24_17.5
19					PT		No Recovery	
20		1.7						
21		5.6	moist	7	PT		Same as above.	
22	2.8	25						EF-B24_22.5X
23					PT		No Recovery	EF-B24_22.5
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Foundation in North portion of soft dig hole.

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




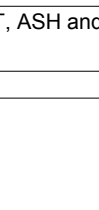

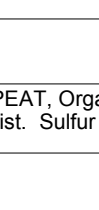





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Boring ID: EF-25

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610709.6
Date Started Drilling: 4/15/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682484.0
Date Finished Drilling: 4/18/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: A. Salazar, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.5 ft
Physical Location:		Elevation: 14.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number	
1		0	dry	3	Fill		Brown (7.5YR 4/3) fine to medium SILTY SAND, little medium to coarse angular Gravel, trace Organics and Slag, loose, dry. No odor.	EF-B25_0.5	
2		0						EF-B25_2.0	
3		0						EF-B25_2.5	
4		0						EF-B25_4.0	
5		0							
6	1.7	0	moist	6	Fill		Very Dark Gray (7.5YR 3/1) SILT, ASH and CINDERS, loose, moist. No odor.	EF-B25_6.0	
7		wet	6	Fill Fill	Same as above, wet. No Recovery			EF-B25_6.5	
8									
9									
10		0							
11	2.1	0	wet	6	Fill		Same as above, wet.		
12				Fill	No Recovery			EF-B25_11.5	
13									
14									
15		0							
16	3.1	0	wet	6	Fill		Same as above, wet.	EF-B25_16.0	
17		moist	7	PT				Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B25_17.5
18									
19									
20		1.8			PT				No Recovery
21	2	57.2	moist	7	PT		Same as above.		
22								PT	
23									
24									
25									
26						End of boring at 25 ft.			
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.



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Boring ID: EF-26

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610746.5
Date Started Drilling: 4/15/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682562.5
Date Finished Drilling: 4/18/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: A. Salazar, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location:		Elevation: 15.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	moist	3	Fill		Brown (7.5YR 3/2) fine to medium SILTY SAND, little Fill Material, trace Coal Ash, loose, moist. No odor.	EF-B26_0.0
2		0						EF-B26_2.1
3		0						EF-B26_2.5
4		0						EF-B26_4.0
5		0						
6		0	wet	4A	Fill		Dark Reddish Brown (2.5YR 3/4) COPR nodules (100%), fine to 1.5 in diameter nodules, texture of silt and fine sand, medium dense, wet. No odor.	EF-B26_6.0
7		0						EF-B26_7.0
8	2.4		wet	3	Fill		Black fine to medium SAND, little fine angular Gravel and Wood fragments, loose, wet. No odor.	
9					Fill		No Recovery	
10		0						EF-B26_10.0
11		0	wet	4B	Fill		Dark Reddish Brown (2.5YR 3/4) COPR nodules (75%), fine to 0.5 in diameter nodules, some Silt and fine Sand, loose, wet. No odor.	
12	4.1	0	wet	3	Fill		Very Dark Gray (7.5YR 3/1) SILT and fine SAND, trace fine to medium Gravel, loose, wet. No odor.	EF-B26_12.0
13		0	dry	5	Fill		Gray (5Y 6/1) SILT/GGM (100%), slight crushed cement texture, medium dense, dry. Chemical odor.	EF-B26_12.5
14			wet	3	Fill		Very Dark Gray (7.5YR 3/1) SILT and fine SAND, trace fine to medium Gravel, loose, wet. No odor.	EF-B26_14.0
15		0			Fill		No Recovery	
16		7.8	moist	3	Fill		Same as above, some Fill Material (cinders, glass), moist.	EF-B26_16.0
17	2.7	18.2	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B26_17.5
18					PT		No Recovery	
19								
20		0						
21		0	moist	7	PT		Same as above.	
22	4	105	wet	10	SW		Dark Reddish Brown (5YR 3/2) medium SAND, little fine and coarse Sand, trace Silt, loose, wet. No odor.	
23		18.5	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B26_22.5
24								
25					PT		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: COPR identified from 5-11 ft, GGM identified from 12.1-13.5 ft bgs.

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

Comments: COPR identified from 3.5-5.0 ft. GGM identified from 5.9-17.3 ft. Canal bottom identified from 17.3-20.5 ft bgs.

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



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Boring ID: EF-28

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610690.3
Date Started Drilling: 4/20/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682679.8
Date Finished Drilling: 4/22/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Behind Site 132 building		Elevation: 14.3 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2			Black Asphalt	EF-B28_0.8
2		1.1	dry	3	Fill		Very Dark Gray (10YR 3/1) fine to medium SAND, some Silt and medium Gravel, little Fill Material (slag, glass, debris), medium dense, dry. Petroleum odor.	EF-B28_2.0
3		1.2						EF-B28_2.5
4		1.2	dry	3	Fill			EF-B28_4.0
5		0	wet	6	Fill		Brick and Cobble stone, dense, dry. Dark Gray (10YR 4/1) ASH and CINDERS, little Silt, trace medium Gravel, loose, wet. No odor.	
6		0						EF-B28_5.5
7	1.1				Fill		No Recovery	
8								
9								
10		0						EF-B28_10.0
11		0	wet	6	Fill		Same as above, little Coal fragments.	EF-B28_11.0
12					Fill		No Recovery	
13	1.5							
14								
15		0						EF-B28_15.0
16		0.3	wet moist	6 3	Fill Fill		Same as above. Dark Reddish Gray (5YR 4/2) Organic SILT, little Clay, little interbedded Red-Brown Silty Sand, soft, moist. Oil odor.	
17		7	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B28_17.5
18					PT		No Recovery	
19								
20		2.3						
21		0	moist	7	PT		Same as above.	
22		0						
23	5	0						EF-B28_22.5
24		0						
25			moist	8	SM		Gray (Gley1 6/0) very fine SAND, little Silt and Red-Brown fine Gravel, medium dense, moist. No odor.	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

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



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Boring ID: EF-29

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610571.8
Date Started Drilling: 4/20/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682736.3
Date Finished Drilling: 4/22/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.5 ft
Physical Location: Behind Site 132 building		Elevation: 15.3 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2			Black Asphalt	EF-B29_0.8
2		0	moist	3	Fill		Reddish Brown (5YR 4/4) fine to medium SILTY SAND, some Ash and Cinders, little fine to coarse Gravel, loose, moist. No odor.	EF-B29_2.0 EF-B29_2.5
3		0						
4		0						EF-B29_4.0
5		0						
6		0	moist	6	Fill		Gray (7.5YR 5/1) SILT and CINDERS, little Ash and Coal fragments, loose, moist. No odor.	EF-B29_6.5
7	2.2							
8					Fill		No Recovery	
9								
10		0						EF-B29_10.0
11		0	moist	6	Fill		Same as above.	EF-B29_10.0X
12		0						
13	3.1		moist	3	Fill		Reddish Brown (5YR 4/3) SILT, trace Organics, medium stiff, moist. No odor.	EF-B29_12.5
14					Fill		No Recovery	
15		0						EF-B29_15.0
16			moist	3	Fill		Same as above.	
17	0.7				Fill		No Recovery	
18								
19								
20		0						
21		0	moist	10	SM		Brown (10YR 4/3) fine SAND and SILT, little coarse angular Gravel, dense, moist. No odor.	EF-B29_21.0
22	1.8		moist	10	SM		Reddish Brown (2.5YR 4/4) and Strong Brown (7.5YR 5/6) fine to medium SAND, some Silt and fine to medium Gravel, dense, moist. No odor.	
23					SM		No Recovery	
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.







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Boring ID: EF-91

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 610685.4
Date Started Drilling: 8/30/2012 12:55:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682188.7
Date Finished Drilling: 8/30/2012 1:30:00 PM	Core Size: 2 in	Boring Total Depth: 4.5 ft
Logged By: Ben Daniels	Project Manager: Chris Martell	Depth to Water: NA
Physical Location:		Elevation: 10.6 ft NAVD88

(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		0.0	dry	2	ASPHALT		ASPHALT	
1		152.0	dry	3	FILL		fine to coarse SAND, some fine to coarse gravel little silt, (7.5YR 3/2) dark brown, dry , no odor, angular, Little fill material (brick, glass, asphalt)	
2							silty SAND, little fine to medium gravel and fill material, (7.5YR 4/1) dark gray, dry to moist , strong solvent odor, angular, (Coal, ceramic, wood fragments, glass, metal)	EF-B091-2.0-2.5
3			moist		FILL		Moist at 2.5 ft. MGP odor.	
4		831.0	moist	3	FILL		silty SAND, little fine to coarse gravel and fill material, (7.5YR 4/1) dark gray, moist , strong solvent odor, angular, (wood fragments, coal, glass) MGP odor.	EF-B091-4.0-4.5
							silty SAND, little fine to coarse gravel and fill material, (7.5YR 3/1) very dark gray, moist , strong solvent odor, angular, (Glass, coal, ceramic, paper, metal, wood fragments) MGP odor.	

Comments:



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Boring ID: FBP-B31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610526.3
Date Started Drilling: 4/28/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682798.4
Date Finished Drilling: 4/28/2014 10:35:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry	FILL		fine to medium SAND, little medium gravel, little crushed concrete, trace coal, (5YR 4/3) reddish brown, loose, dry, no odor, no staining.	FBP-B31A-0.5-1.0
2							
3							FBP-B31A-2.5-3.0
4							
5	4	0.0	slightly moist	FILL		fine to medium SAND, little coarse gravel, trace crushed concrete, (5YR 4/3) reddish brown, loose, slightly moist, no odor, no staining.	FBP-B31A-4.5-5.0
6							
7		0.0	moist	FILL			FBP-B31A-6.5-7.0
8							
9	5			NR		NO RECOVERY	FBP-B31A-8.5-9.0
10							
11		0.0	wet	FILL			FBP-B31A-10.5-11.0
12							
13	5	0.0	slightly moist	FILL		fine silty SAND, little medium gravel, trace wood fragments, (7.5YR 5/4) brown, (10YR 4/2) dark grayish brown, loose, slightly moist, no odor, no staining.	FBP-B31A-12.5-13.0
14							
15							FBP-B31A-14.5-15.0
16		0.0	moist	FILL			FBP-B31A-15.0-15.5
17	5	0.0	dry	SP		fine to medium SAND, little gravel, trace debris, (10YR 5/2) grayish brown, loose, moist, no odor, no staining. fine silty SAND, little shale fragments, little coarse gravel, (2.5YR 4/4) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno.	FBP-B31A-15.5-16.0
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.

PPG - PPG_LOGS.GDT - 8/29/14 13:28



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Boring ID: FBP-C31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610546.9
Date Started Drilling: 4/28/2014 10:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682786.9
Date Finished Drilling: 4/28/2014 11:40:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 14.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry	FILL		fine to coarse SAND, some medium to coarse gravel, trace asphalt, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	FBP-C31A-1.0-1.5
2							
3							FBP-C31A-3.0-3.5
4							
5	5	0.0	dry	FILL		fine to coarse SAND, little coarse gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	FBP-C31A-5.0-5.5
6		0.0	dry	FILL			
7		0.0	wet	FILL		fine silty SAND, little cinders, trace glass fragments, (7.5YR 4/3) brown, loose, wet, no odor, no staining.	FBP-C31A-7.0-7.5
8							
9	5	0.0	moist	FILL		fine to medium silty SAND, some cinders, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	FBP-C31A-9.0-9.5
10							
11		0.0	dry	FILL		fine to medium SAND, little fill material, trace coal, trace organic fibers, (7.5YR 4/3) brown, loose, dry, no odor, no staining.	FBP-C31A-11.0-11.5
12							
13	5						FBP-C31A-13.0-13.5
14							
15		0.0	dry	FILL		fine to medium SAND, little fill material, little medium to coarse gravel, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, no staining.	FBP-C31A-14.3-14.8
16		0.0	dry to moist	OL			FBP-C31A-14.8-15.3
17	5	0.0	slightly moist	SM		fine to medium SAND, little organic fibers, (7.5YR 4/2) brown, loose, slightly moist, no odor, no staining. Soils consistent with UNDorg.	
18							
19						fine to medium silty SAND, trace medium gravel, (7.5YR 5/1) gray, dense, dry, no odor, no staining. Soils consistent with UNDno.	
20							
			dry	SP		fine to medium silty SAND, (5YR 4/4) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno.	

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

PPG - PPG_LOGS.GDT - 8/29/14 13:28

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610569.9
Date Started Drilling: 4/29/2014 7:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682775.5
Date Finished Drilling: 4/29/2014 9:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 14.7 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to medium SAND, with fine to medium gravel, (10YR 3/3) dark brown, loose to medium dense, dry, no odor, no staining.	FBP-D31A-0.5-1.0
2		0.0	dry	FILL		CINDERS, and ash, some fine to medium gravel, little fine to medium sand, trace coal, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	FBP-D31A-2.0-2.5
3		0.0	moist to wet	FILL		fine to medium silty SAND, some fine to medium gravel, trace ash, (5R 5/2) weak red, soft to medium dense, moist to wet, no odor, no staining.	
4	4						FBP-D31A-4.0-4.5
5		0.0	moist	FILL		fine to medium SAND, trace silt, cinders, ash, (10YR 3/1) very dark gray, medium dense, moist, no odor, no staining.	
6							FBP-D31A-6.0-6.5
7		0.0	moist	FILL		CINDERS, and ash, some silty sand, little fine gravel, trace coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
8	5						FBP-D31A-8.0-8.5
9				NR		NO RECOVERY	
10		0.0	wet	FILL		CINDERS, with ash, some fine to medium silty sand, little medium to coarse gravel, trace coal, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	FBP-D31A-10.0-10.5
11							
12	5	0.0	moist	FILL		fine to medium silty SAND, trace ash, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining.	FBP-D31A-12.0-12.5
13							
14							FBP-D31A-14.0-14.5
15		0.0	moist	FILL		sandy SILT, trace fill material, (7.5YR 6/3) light brown, low plasticity, soft, moist, no odor, no staining.	FBP-D31A-15.0-15.5
16	5	0.0	dry to moist	OL		sandy SILT, trace fill material, (7.5YR 6/3) light brown, low plasticity, soft, dry to moist, no odor, no staining.	FBP-D31A-15.5-16.0
17		0.0	dry	PT		UNDorg SILT, 70% organic silt, 30% organic fibers, some fine to medium sand, (10YR 4/3) brown, medium stiff, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
18		0.0	dry	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
19							
20		0.0	dry	SM		UNDorg fine to medium SAND, some silt, little fibers, trace native stone, (10YR 5/1) gray, dense, dry, no odor, no staining. Soils consistent with UNDorg.	
						UNDno fine to coarse SAND, little medium gravel, (2.5YR 3/2) dusky red, dense, dry, no odor, no staining. Soils consistent with UNDno.	

PPG - PPG_LOGS.GDT - 8/29/14 13:28

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610598.2
Date Started Drilling: 4/29/2014 9:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682761.9
Date Finished Drilling: 4/29/2014 10:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 14.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to coarse SAND, with fine to coarse gravel, trace asphalt, (10YR 4/1) dark gray, loose, dry, no odor, no staining.	FBP-E31A-0.5-1.0
2		0.0	dry	FILL		ASH, with cinders, some fine to coarse sand, little coal, (7.5YR 7/1) light gray, loose, dry, no odor, no staining.	FBP-E31A-2.0-2.5
3		0.0	dry	FILL		fine to medium silty SAND, little cinders, ash, trace wood debris, coal, (10YR 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	FBP-E31A-4.0-4.5
4		0.0	dry	FILL		CINDERS, with ash, some fine to medium silty sand, little wood debris, trace coal, (5YR 2.5/1) black, loose, dry, no odor, no staining.	FBP-E31A-6.0-6.5
5	4	0.0	slightly moist	FILL		ASH, with cinders, some fine to medium gravel, trace wood debris, (10YR 3/1) very dark gray, loose, slightly moist, no odor, no staining.	FBP-E31A-8.0-8.5
6				NR		NO RECOVERY	
7		0.0	moist	FILL		CINDERS, and ash, little fine to medium gravel, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	FBP-E31A-10.0-10.5
8	5						FBP-E31A-12.0-12.5
9		0.0	moist	FILL		sandy SILT, little cinders, trace wood debris, fibers, (10YR 4/2) dark grayish brown, low plasticity, medium dense to soft, moist, no odor, no staining.	FBP-E31A-14.0-14.5
10		0.0	moist	SM		fine to medium silty SAND, some cinders, little wood debris, trace ash, (10YR 5/2) grayish brown, medium dense, moist, no odor, no staining.	FBP-E31A-15.0-15.5
11		0.0	dry	PT		UNDno fine to medium silty SAND, some trace organic fibers, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	FBP-E31A-15.5-16.0
12	5	0.0	dry	OL		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 2.5/2) very dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
13						UNDorg SILT, 60% organic silt, 40% organic fibers, (7.5YR 2.5/2) very dark brown, medium stiff to soft, dry, slight organic odor, no staining. Soils consistent with UNDorg.	
14		0.0	slightly moist	SM		UNDno fine silty SAND, (7.5YR 5/1) gray, soft, slightly moist, no odor, no staining. Soils consistent with UNDno.	

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.



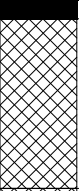
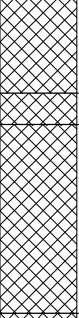
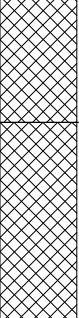
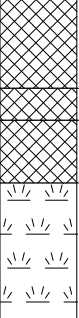

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Boring ID: FBP-F31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610626.1
Date Started Drilling: 5/2/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682748.6
Date Finished Drilling: 5/2/2014 9:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 14.2 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		0.0	dry to moist	FILL		CINDERS, and fine to medium sand, some ash, little debris, (7.5YR 2.5/3) very dark brown, loose, dry to moist, no odor, no staining.	FBP-F31A-0.5-1.0
3							
4		0.0	dry	FILL		fine to medium SAND, little fine gravel, trace debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	FBP-F31A-2.5-3.0
5	5	0.0	dry	FILL		CINDERS, and ash, trace wood fragments, (7.5YR 3/1) very dark gray, loose, dry, no odor, no staining.	FBP-F31A-4.5-5.0
6		0.0	moist	FILL		CINDERS, some fine to medium sand, some medium gravel, little debris, (7.5YR 3/1) very dark gray, loose, moist, no odor, no staining.	FBP-F31A-6.5-7.0
7							
8		0.0	wet to saturated	FILL		fine to medium SAND, some cinders, some ash, trace debris, (7.5YR 3/1) very dark gray, loose, wet to saturated, no odor, no staining.	FBP-F31A-8.5-9.0
9	5						
10		0.0	wet to saturated	FILL		CINDERS, some debris, some medium to coarse gravel, (7.5YR 5/1) gray, loose, wet to saturated, no odor, no staining.	FBP-F31A-10.5-11.0
11							
12							
13	5						
14		0.0	slightly moist	FILL		fine to medium SAND, some organic fibers, (7.5YR 2.5/2) very dark brown, loose, slightly moist, no odor, no staining. Soil is consistent with disturbed native material.	FBP-F31A-14.5-15.0
15		0.0	moist	PT		fine to medium SAND, little organic fibers, trace wood fragments, (7.5YR 4/2) brown, loose, moist, no odor, no staining.	FBP-F31A-15.5-16.0
16						PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	FBP-F31A-16.0-16.5
17	5						
18		0.0	slightly moist	OL		UNDorg SILT, 70% organic silt, 30% organic fibers, (7.5YR 2.5/3) very dark brown, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
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.

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Boring ID: FBP-G31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610652.4
Date Started Drilling: 5/1/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682735.5
Date Finished Drilling: 5/1/2014 9:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 13.7 ft NAVD88

(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	moist	ASPHALT		ASPHALT	FBP-G31A-1.0-1.5
2		0.0		FILL		medium to fine SAND, some cinders, little medium gravel, trace debris, (7.5YR 3/2) dark brown, loose, moist, no odor, no staining.	
3							
4							
5	5	0.0	wet	FILL		CINDERS, some ash, little debris, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	FBP-G31A-5.0-5.5
6							FBP-G31A-7.0-7.5
7							FBP-G31A-9.0-9.5
8							
9	5	0.0	saturated	FILL		fine silty SAND, and cinders, some ash, (7.5YR 3/3) dark brown, loose, saturated, no odor, no staining.	FBP-G31A-11.0-11.5
10							
11							
12							
13	5	0.0	wet	FILL		CINDERS, and ash, (7.5YR 3/1) very dark gray, loose, wet, no odor, no staining.	FBP-G31A-13.0-13.5
14							
15							
16							
17	5	0.0	moist	FILL		fine silty SAND, some organics (grass), (7.5YR 3/3) dark brown, loose, moist, no odor, no staining. Disturbed native material.	FBP-G31A-15.0-15.5
18		0.0		FILL		fine to medium SAND, some fine to medium gravel, trace coal, (5YR 4/4) reddish brown, loose, moist to wet, no odor, no staining. Disturbed native material.	FBP-G31A-16.0-16.5
19		0.0		PT		PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 4/2) brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	FBP-G31A-16.5-17.0
20							

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



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Boring ID: FBP-H31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610678.8
Date Started Drilling: 4/30/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682721.7
Date Finished Drilling: 4/30/2014 9:05:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 13.7 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little cinders, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	FBP-H31A-0.5-1.0
2	5						
3		0.0	dry to sl moist	FILL		CINDERS, some fine to medium sand, trace glass fragments, trace wood fragments, (7.5YR 2.5/2) very dark brown, loose, dry to slightly moist, no odor, no staining.	FBP-H31A-2.5-3.0
4							FBP-H31A-4.5-5.0
5		0.0	moist	FILL		fine to medium SAND, with ash, little cinders, (7.5YR 2.5/2) very dark brown, loose, moist, no odor, no staining.	FBP-H31A-6.5-7.0
6							FBP-H31A-8.5-9.0
7	5	0.0	wet to saturated	FILL		CINDERS, little wood fragments, trace ceramics, (7.5YR 4/1) dark gray, loose, wet to saturated, no odor, no staining.	FBP-H31A-10.5-11.0
8							FBP-H31A-12.5-13.0
9		0.0	wet	FILL		CINDERS, little fine to medium sand, little debris, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	FBP-H31A-14.7-15.2
10							FBP-H31A-15.2-15.7
11	5	0.0	wet dry	FILL PT		CINDERS, some ash, little fine to medium sand, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	
12		0.0				PEAT (degraded vegetated material), 80% organic fibers, 20% organic silt, (7.5YR 3/2) dark brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	
13							
14							
15							
16							
17							
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.

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Boring ID: FBP-I31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610705.6
Date Started Drilling: 5/5/2014 7:47:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682708.4
Date Finished Drilling: 5/5/2014 10:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 13.6 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1		0.0	dry to moist	FILL		fine to medium SAND, some ash, some cinders, little silty sand, trace concrete, trace coal, (10YR 4/1) dark gray, medium dense to loose, dry to moist, no odor, no staining.	FBP-I31A-1.0-1.5
2	5						
3							FBP-I31A-3.0-3.5
4							
5		0.0	wet	FILL		ASH, with cinders, some silty sand, little fine to medium gravel, trace glass, (10YR 5/1) gray, loose, wet, no odor, no staining.	FBP-I31A-5.0-5.5
6	5						
7							FBP-I31A-7.0-7.5
8							
9							FBP-I31A-9.0-9.5
10		0.0	wet	FILL		ASH, with cinders, some fine gravel, (10YR 3/1) very dark gray, loose, wet, no odor, no staining.	
11	4						FBP-I31A-11.0-11.5
12							
13							FBP-I31A-13.0-13.5
14				NR		NO RECOVERY	
15		0.0	wet	FILL		CINDERS, with ash, little fine to medium silty sand, little to trace debris, (7.5YR 3/4) dark brown, loose, wet, no odor, no staining.	FBP-I31A-15.0-15.5
16		0.0	moist	FILL			FBP-I31A-15.8-16.3
17	5	0.0	dry	PT		fine to medium silty SAND, little organics (grass), trace cinders, trace debris, (5YR 4/3) reddish brown, soft, moist, no odor, no staining. Appears to be Disturbed Native Material.	FBP-I31A-16.3-16.8
18						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.	
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.

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Boring ID: FBP-J31A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610731.6
Date Started Drilling: 5/5/2014 10:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682694.3
Date Finished Drilling: 5/5/2014 12:10:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 13.8 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry	FILL		fine to medium SAND, some asphalt, little fine to medium gravel, (10YR 5/2) grayish brown, loose to medium dense, dry, no odor, no staining.	FBP-J31A-0.5-1.0
2		0.0	dry	FILL		fine to medium silty SAND, some COPR, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining.	FBP-J31A-1.5-2.0
3		0.0	dry	FILL		fine to medium SAND, some fine to medium gravel, little cinders, trace coal, (7.5YR 2.5/1) black, medium dense, dry, no odor, no staining.	FBP-J31A-3.0-3.5
4							
5		0.0	moist to wet	FILL		fine to medium SAND, with cinders, some ash, little debris, (10YR 4/2) dark grayish brown, medium dense to loose, moist to wet, no odor, no staining.	FBP-J31A-5.0-5.5
6							FBP-J31A-7.0-7.5
7							
8							FBP-J31A-9.0-9.5
9							
10		0.0	wet	FILL		CINDERS, and ash, little silty sand, (10YR 4/1) dark gray, medium dense, wet, no odor, no staining.	FBP-J31A-11.0-11.5
11							
12							FBP-J31A-13.0-13.5
13							
14							
15		0.0	wet	FILL		CINDERS, with ash, some silty sand, trace brick, (10YR 3/1) very dark gray, medium dense, wet, no odor, no staining.	FBP-J31A-15.0-15.5
16		0.0	moist	FILL		SILT, little clay, trace fibers, trace wood debris, (10YR 5/2) grayish brown, soft, moist, no odor, no staining.	FBP-J31A-16.5-17.0
17	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.	FBP-J31A-17.0-17.5
18							
19							
20							

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

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610757.3
Date Started Drilling: 5/1/2014 9:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682682.0
Date Finished Drilling: 5/1/2014 10:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Fishbein		Elevation: 13.8 ft NAVD88

(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	moist	ASPHALT		ASPHALT	
2		0.0		FILL		fine to medium SAND, some medium gravel, little coal, (2.5YR 7/3) light reddish brown, loose, moist, no odor, no staining.	
3		0.0	moist to wet	FILL		COPR, some fine to medium sand, little fine to medium gravel, (2.5YR 2.5/4) dark reddish brown, loose, moist to wet, no odor, no staining.	
4	5	0.0	wet	FILL		CINDERS, and fine to medium sand, little medium gravel, (7.5YR 2.5/1) black, loose, wet, no odor, no staining.	
5		0.0					
6		0.0	wet to saturated	FILL		GGM CINDERS, little fine to medium silty sand, little fine gravel, (5GY 6/2) light grayish green, loose, wet to saturated, no odor, no staining.	
7	5	0.0	wet	FILL		GGM CINDERS, some fine to medium silty sand, (5GY 6/2) light grayish green, loose, wet, no odor, no staining.	
8		0.0					
9		0.0	moist	FILL		SILT, little clay, (7.5YR 2.5/1) black, (5GY 6/2) light grayish green, low plasticity, soft, moist, no odor, no staining.	FBP-K31A-17.0-17.5
10	5	0.0	moist	FILL		UNDorg SILT, 90% organic silt, 10% organic fibers, (7.5YR 4/1) dark gray, low plasticity, moist, no odor, no staining. Soils consistent with UNDorg.	FBP-K31A-18.3-18.8
11		0.0					FBP-K31A-18.8-19.3
12		0.0	moist	OL			
13							
14							
15							
16							
17							
18							
19							
20							

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



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Boring ID: ICO-11

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Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610536.1
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682780.7
Date Finished Drilling: 4/5/2012	Core Size: 1.5 in	Boring Total Depth: 20 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Outdoors		Elevation: 14.7 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3	0	Dry	2	ASPHALT		ASPHALT, (10YR 2/1) black, dense, dry, no odor	ICO-B011-1.0
2		0	Moist	1	CONCRETE		pulverized CONCRETE, (N 8/) white, dense, dry, no odor	
3		0		3	FILL		fine SAND, little coarse (SP) sand trace silt, (5YR 4/4) reddish brown, dense, moist, no odor	ICO-B011-3.0
4			Moist	6	FILL		CINDERS, and ash little coal, (5YR 4/1) dark gray, loose, moist, no odor	
5	2	0	Moist	6	FILL		NO RECOVERY	ICO-B011-5.0
6			Wet	6	FILL		CINDERS, and ash little coal, (5YR 4/1) dark gray, loose, wet, no odor	
7			Wet	6	FILL		NO RECOVERY	ICO-B011-7.0
8								
9								
10	3.3	0						ICO-B011-10.0
11			Moist	3	FILL		SILT, little interbedded silty very fine sand, (5YR 4/3) reddish brown, soft, moist, no odor	
12		0						
13		0	Moist	7	OL		organic SILT, little roots, (7.5YR 3/2) dark brown, soft, moist, no odor	
14			Moist	8	SM		very fine SAND, and silt, (10YR 5/1) gray, dense, moist, no odor	
15	3.3	0	Moist	8	SM		NO RECOVERY	
16			Wet	8	SM		very fine SAND, and silt, (10YR 5/1) gray, dense, wet, no odor	
17			Moist	10	SM		fine SAND, little fine to medium gravel and silt, (2.5YR 4/6) red, dense, moist, no odor, angular	
18								
19			Moist	10	SM		NO RECOVERY	
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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Boring ID: ICO-18

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Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610609.8
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682296.5
Date Finished Drilling: 4/5/2012	Core Size: 1.5 in	Boring Total Depth: 20 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Outdoors		Elevation: 11.4 ft NAVD88


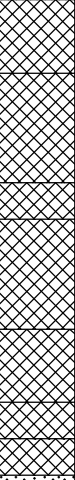
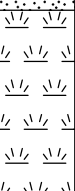

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.2	0	Dry	2	ASPHALT		ASPHALT, and DGA, (10YR 2/1) black, dense, dry , no odor	ICO-B018-1.0
2		0	Dry to Moist	3	FILL		fine SAND, some fill material, (10YR 2/1) black, non plastic , loose, dry to moist , no odor, (brick, cinders, concrete, gravel)	
3								ICO-B018-3.0
4			Moist	3	FILL		NO RECOVERY	
5	2.2	0						ICO-B018-5.0
6			Wet	3	FILL		fine SAND, some fill material, (10YR 2/1) black, loose, wet , no odor, (brick, cinders, concrete, gravel)	
7								ICO-B018-7.0
8			Wet	3	FILL		NO RECOVERY	
9								
10	2.5	0						ICO-B018-10.0
11		0	Wet	3	FILL		fine SAND, and crushed fill material, (7.5YR 4/4) brown, loose, wet , no odor, (ceramics, coal, cinders)	
12			Moist	7	PT		organic silty CLAY, little phragmite roots, (10YR 5/2) grayish brown, firm, moist , moderate sulfur odor	
13			Moist	7	PT		NO RECOVERY	
14								
15	0.5	0						
16			Moist	8	SM		very fine SAND, trace silt, (10YR 6/1) gray, dense, moist , no odor	
17			Moist	8	SM		NO RECOVERY	
18								
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
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27								
28								
29								
30								
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34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.








Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610692.0
Date Started Drilling: 9/18/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682212.3
Date Finished Drilling: 9/18/2020 11:00:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 10.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT FILL		ASPHALT fine to coarse SAND, some coarse gravel and angular rock, little silts, (5YR 4/3) reddish brown (7.5YR 4/2) brown, loose to medium dense, dry to moist, no odor, no staining	P3BS-PDI-1+20-250R-0-0.5
2							P3BS-PDI-1+20-250R-2-2.5
3							
4	5	0.0	dry	FILL		fine to medium SAND, some coarse gravel and angular rocks, little silt, trace slag, (5YR 4/3) reddish brown (7.5YR 6/3) light brown, medium dense, dry to moist, no odor, no staining	P3BS-PDI-1+20-250R-4-4.5
5			moist	FILL		fine to coarse SAND, some ash little fill debris (glass fragments), (2.5YR 5/4) reddish brown (7.5YR 4/2) brown, loose to medium dense, moist to wet, no odor, no staining	
6			moist	FILL		fine to medium SAND, some silt little coarse gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+20-250R-6-6.5
7			moist	FILL		fine to coarse SAND, some coal refuse little ash, trace fill debris (glass fragments), (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining	
8			moist	FILL		fine to medium SAND, some silt trace ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+20-250R-8-8.5
9			moist	FILL		Algae green mottling observed fine to medium SAND, some silt trace ash, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining	
10			moist	SP		fine to medium SAND, some coarse gravel and angular rocks, little silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+20-250R-10-10.5
11			moist	SP		fine to medium SAND, some coarse gravel and angular rocks, little silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+20-250R-12-12.5
12	5	0.0	moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-1+20-250R-12.5-13
13							
14							
15	5	0.0	moist	OL		organic SILT, trace organic fibers, (5Y 5/1) gray, soft, moist, strong organic odor, no staining	
16							
17							
18							
19							

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

Comments:




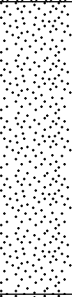
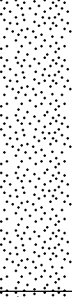

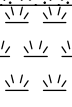
Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610675.9
Date Started Drilling: 9/15/2020 10:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682254.0
Date Finished Drilling: 9/15/2020 12:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 11.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5		moist	FILL		fine to coarse SAND, trace fine to coarse gravel little (15%) COPR, medium dense, moist, no odor	P3BS-PDI-1+50-220R-0-0.5
2			moist	FILL		fine to coarse SAND, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+50-220R-2-2.5
3							
4	5						P3BS-PDI-1+50-220R-4-4.5
5							
6							P3BS-PDI-1+50-220R-6-6.5
7	5	5.6	moist	FILL		fine to coarse SAND, little wood fragments trace fine gravel, no CCPW, slight sheen, (5YR 2.5/1) black, medium dense, moist, no odor	P3BS-PDI-1+50-220R-8-8.5
8							
9			moist	FILL		fine to coarse SAND, little fine to coarse gravel no CCPW, (5YR 2.5/1) black, medium dense, moist, no odor, no staining	P3BS-PDI-1+50-220R-10-10.5
10	5	0.0					
11							P3BS-PDI-1+50-220R-12-12.5
12			moist	FILL		fine to coarse SAND, trace fine to coarse gravel trace organics, no CCPW, (7.5R 3/3) dusky red, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+50-220R-14-14.5
13	5						
14							P3BS-PDI-1+50-220R-16-16.5
15							
16	5	0.0					
17							P3BS-PDI-1+50-220R-18-18.5
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-1+50-220R-18.5-19.0
19							

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

Comments:







Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610505.6
Date Started Drilling: 11/10/2020 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682373.1
Date Finished Drilling: 11/10/2020 9:00:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 9.5 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.6 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, no staining	
1	5		dry	FILL		fine to coarse SAND, some fine to coarse gravel trace silt, trace fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining	P3BS-PDI-1+80-15R-0.5-1.0
2							P3BS-PDI-1+80-15R-2.0-2.5
3							
4							P3BS-PDI-1+80-15R-4.0-4.5
5	5	0.0	moist	FILL		medium to coarse SAND, little ash little fine to coarse gravel, trace fill debris, (7.5YR 3/1) very dark gray, medium dense, moist, no odor, no staining	
6							P3BS-PDI-1+80-15R-6.0-6.5
7							
8							P3BS-PDI-1+80-15R-8.0-8.5
9	5	0.0					
10			wet	SP		fine to coarse SAND, some fine to coarse gravel, (5YR 4/2) dark reddish gray, loose, wet to saturated, no odor, no staining	P3BS-PDI-1+80-15R-10.0-10.5
11							
12							P3BS-PDI-1+80-15R-12.0-12.5
13	5	0.0					
14			wet	SP		fine to coarse SAND, some fine to coarse gravel, (5YR 4/2) dark reddish gray, medium dense, wet to saturated, no odor, no staining	P3BS-PDI-1+80-15R-14.0-14.5
15							
16							P3BS-PDI-1+80-15R-16.0-16.5
17	5	0.0					
18			moist	SP		fine to medium SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-1+80-15R-18.0-18.5
19			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-1+80-15R-18.5-19.0

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

Comments:








Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610541.1
Date Started Drilling: 11/9/2020 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682367.1
Date Finished Drilling: 11/9/2020 9:00:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 14.0 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.6 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, no staining	
1	5	0.0	dry	FILL		fine to coarse SAND, some fine to coarse gravel trace fill debris, (5YR 3/2) dark reddish brown, medium dense, dry, no odor, no staining	P3BS-PDI-1+90-50R-0.5-1.0
2							P3BS-PDI-1+90-50R-2.0-2.5
3							
4							P3BS-PDI-1+90-50R-4.0-4.5
5							
6	5	0.0					P3BS-PDI-1+90-50R-6.0-6.5
7							
8							P3BS-PDI-1+90-50R-8.0-8.5
9							
10			moist	FILL		fine to coarse SAND, little fine to coarse gravel trace silt, (7.5YR 3/2) dark brown, medium dense, moist to wet, wet at 10.0'	P3BS-PDI-1+90-50R-10.0-10.5
11	5	0.0					
12							P3BS-PDI-1+90-50R-12.0-12.5
13							
14			wet	FILL		fine to coarse SAND, some fine to coarse gravel trace ash, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining	P3BS-PDI-1+90-50R-14.0-14.5
15			moist	GM		fine to coarse SAND, trace fine gravel trace silt, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	
16	5	0.0					P3BS-PDI-1+90-50R-16.0-16.5
17							
18							P3BS-PDI-1+90-50R-18.0-18.5
19			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-1+90-50R-18.5-19.0

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

Comments:


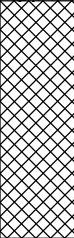







Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610533.9
Date Started Drilling: 11/10/2020 11:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682387.8
Date Finished Drilling: 11/10/2020 12:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 15 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.7 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, no staining	
1	5		dry	FILL		medium to coarse SAND, some fine to coarse gravel trace fill debris, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining	P3BS-PDI-2+05-30R-0.5-1.0
2							P3BS-PDI-2+05-30R-2.0-2.5
3							
4							P3BS-PDI-2+05-30R-4.0-4.5
5	5	0.0	dry	FILL		fine to coarse SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining	
6							P3BS-PDI-2+05-30R-6.0-6.5
7							
8			moist	FILL		fine to coarse SAND, some fine to coarse gravel little ash, fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining	P3BS-PDI-2+05-30R-8.0-8.5
9	5	0.0					
10							P3BS-PDI-2+05-30R-10.0-10.5
11							
12							P3BS-PDI-2+05-30R-12.0-12.5
13	5	0.0					
14			moist	SP-SM		fine to medium SAND, little silt, trace clay, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-2+05-30R-14.0-14.5
15							
16			wet	SP		fine to medium SAND, little coarse sand little fine gravel, little silt, (7.5YR 4/1) dark gray, soft to medium dense, wet, no odor, no staining	P3BS-PDI-2+05-30R-16.0-16.5
17	5	0.0					P3BS-PDI-2+05-30R-17.0-17.5
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-2+05-30R-17.5-18.0
19							

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

Comments:





















Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610571.6
Date Started Drilling: 11/6/2020 11:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682370.4
Date Finished Drilling: 11/6/2020 12:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	5	0.0		CONCRETE		CONCRETE, no staining	
			dry	FILL		fine to coarse SAND, some fine gravel little coarse gravel, fill debris, (5YR 3/4) dark reddish brown, medium dense, dry to moist, no odor, no staining	P3BS-PDI-2+05-65R-0.5-1.0
							P3BS-PDI-2+05-65R-2.0-2.5
			NA moist	CONCRETE FILL		CONCRETE, no staining	
5-8	5	0.0				fine to coarse SAND, little fine to coarse gravel fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-2+05-65R-4.0-4.5
							P3BS-PDI-2+05-65R-6.0-6.5
			moist	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, trace silt, (5YR 6/4) light reddish brown, medium dense, moist to wet, no odor, no staining	P3BS-PDI-2+05-65R-8.0-8.5
10-14	5	0.0					P3BS-PDI-2+05-65R-10.0-10.5
							P3BS-PDI-2+05-65R-12.0-12.5
							P3BS-PDI-2+05-65R-14.0-14.5
15-19	5	0.0	moist	FILL		fine to coarse SAND, little fine gravel little silt, (5YR 2.5/1) black, medium dense, moist to wet, no odor, no staining	P3BS-PDI-2+05-65R-15.0-15.5
				PT		PEAT (degraded vegetated material)	P3BS-PDI-2+05-65R-15.5-16.0
							
							
							

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

Comments:









Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610630.5
Date Started Drilling: 9/16/2020 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682360.4
Date Finished Drilling: 9/16/2020 10:00:00 AM	Core Size:	Boring Total Depth: 20 ft
Logged By: B Murphy	Project Manager:	Depth to Water:
Physical Location:		Surface Elevation: 12.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.7 @3-4'	dry	ASPHALT		ASPHALT	
2			moist	FILL		fine to coarse GRAVEL, little fine to coarse sand, (5YR 4/1) dark gray, loose, dry, no odor, no staining	
3				CONCRETE		CONCRETE, no staining	
4				FILL		fine to coarse SAND, little fine gravel trace coarse gravel, fill debris, (5YR 2.5/1) black, loose to medium dense, moist, slight petroleum odor,	
5	5	0.3					P3BS-PDI-2+10-130R-4.1-4.6
6			moist	FILL		fine to coarse SAND, (2.5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	
7			moist	FILL		fine to coarse SAND, little ash, (5YR 4/1) dark gray, loose, moist, no odor, no staining	P3BS-PDI-2+10-130R-6.1-6.6
8			moist	FILL		fine to coarse SAND, little fine gravel trace ash, fill debris (glass, ceramics), (5YR 4/1) dark gray, medium dense, moist, no odor, no staining	
9							P3BS-PDI-2+10-130R-8.1-8.6
10	5	0.0					P3BS-PDI-2+10-130R-10.1-10.6
11							
12							
13			moist	FILL		fine SAND, little silt trace organics, (5YR 4/1) dark gray, medium stiff, moist, no odor, no staining	
14			moist	FILL		fine to coarse SAND, little fine gravel trace ash, fill debris, (5YR 4/1) dark gray, medium dense, moist, no odor, no staining	
15	5	0.0					
16							
17				PT		PEAT (degraded vegetated material)	
18							
19							
20							

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

Comments:







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Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610555.1
Date Started Drilling: 9/16/2020 11:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682395.0
Date Finished Drilling: 9/16/2020 12:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 10 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.6 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, no staining	
1	5		dry	FILL		fine to coarse SAND, some fine to coarse gravel trace fill debris, (7.5YR 2.5/2) very dark brown, dense to medium dense, dry, no odor, no staining	P3BS-PDI-2+20-50R-0.5-1.0
2							P3BS-PDI-2+20-50R-2.0-2.5
3			dry	FILL		fine to coarse SAND, little ash little fine to coarse gravel, trace fill debris, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining	
4							P3BS-PDI-2+20-50R-4.0-4.5
5	5	0.0	dry	FILL		fine to coarse SAND, little fine to coarse gravel, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining	
6							P3BS-PDI-2+20-50R-6.0-6.5
7							
8							P3BS-PDI-2+20-50R-8.0-8.5
9	5	0.0	saturated	FILL		fine to coarse SAND, little fine to coarse gravel little silt, (5YR 3/1) very dark gray (7.5YR 4/1) dark gray, loose, saturated, no odor, no staining	P3BS-PDI-2+20-50R-10.0-10.5
10							
11							P3BS-PDI-2+20-50R-12.0-12.5
12							
13	5	0.0	saturated	FILL		fine to coarse SAND, some fine to coarse gravel little fill debris, (5YR 2.5/1) black, loose to medium dense, saturated to wet, no odor, no staining	P3BS-PDI-2+20-50R-14.0-14.5
14							
15							P3BS-PDI-2+20-50R-16.0-16.5
16			moist	FILL		medium to coarse SAND, trace fine to coarse gravel, (10R 6/2) pale red, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining	
17	5						P3BS-PDI-2+20-50R-18.0-18.5
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-2+20-50R-18.5-19.0
19							

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

Comments:



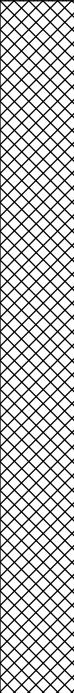
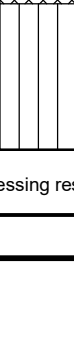
Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610591.4
Date Started Drilling: 11/6/2020 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682397.2
Date Finished Drilling: 11/6/2020 9:00:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	5	0.0		CONCRETE		CONCRETE, no staining	
			dry	FILL		fine to coarse GRAVEL, some fine to coarse sand, (5YR 3/1) very dark gray, loose, dry, no odor, no staining	P3BS-PDI-2+40-80R-0.5-1.0
							P3BS-PDI-2+40-80R-2.0-2.5
							P3BS-PDI-2+40-80R-4.0-4.5
5	5	0.0	NA	CONCRETE		CONCRETE, no staining	
6			saturated	FILL		fine to coarse SAND, some fine to coarse gravel, trace fill debris (lumber fragments), (7.5YR 7/1) light gray, dense to medium dense, saturated to wet, no odor, no staining, Wet at 10.5'	P3BS-PDI-2+40-80R-6.0-6.5
7							P3BS-PDI-2+40-80R-8.0-8.5
8							
9	5	0.0					P3BS-PDI-2+40-80R-10.0-10.5
10							
11							P3BS-PDI-2+40-80R-12.0-12.5
12							
13	5	0.0					P3BS-PDI-2+40-80R-14.0-14.5
14							
15			moist	FILL		fine to coarse SAND, some fine to coarse gravel little fill debris, lumber fragments, (5YR 3/3) dark reddish brown, medium dense to loose, moist to wet, no odor, no staining	P3BS-PDI-2+40-80R-16.0-16.5
16							P3BS-PDI-2+40-80R-17.5-18.0
17	5	0.0					P3BS-PDI-2+40-80R-18.0-18.5
18			moist	PT		PEAT (degraded vegetated material), 80% silt, 20% organic fibers, low plasticity soft, moist no odor no staining	
19							

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

Comments:






Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610648.2
Date Started Drilling: 11/5/2020 12:00:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682378.1
Date Finished Drilling: 11/5/2020 1:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 12.5 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.1 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, no staining	
1	5		dry	FILL		coarse SAND, some fine to coarse gravel little fill debris, brick fragments, (5YR 3/4) dark reddish brown, medium dense, dry, no odor, no staining	P3BS-PDI-2+40-140R-0.5-1.0
2							P3BS-PDI-2+40-140R-2.0-2.5
3							
4							P3BS-PDI-2+40-140R-4.0-4.5
5	5	0.1					
6							P3BS-PDI-2+40-140R-6.0-6.5
7							
8							P3BS-PDI-2+40-140R-8.0-8.5
9	5		moist	FILL		fine to coarse SAND, some ash little fine to coarse gravel, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining, wet at 12.5	
10							P3BS-PDI-2+40-140R-10.0-10.5
11							
12							P3BS-PDI-2+40-140R-12.0-12.5
13	5	0.8					
14							P3BS-PDI-2+40-140R-14.0-14.5
15							
16							P3BS-PDI-2+40-140R-16.0-16.5
17	5	0.0					
18							P3BS-PDI-2+40-140R-17.5-18.0
19							P3BS-PDI-2+40-140R-18.0-18.5
			moist	ML		UND at 18.0' SILT, little fine sands, trace organic fibers (UNDno), (5YR 3/1) very dark gray, soft, moist to wet, no odor, no staining	

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610662.9
Date Started Drilling: 9/17/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682395.9
Date Finished Drilling: 9/17/2020 10:00:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.7 ft NAVD88

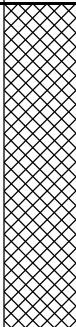
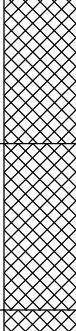
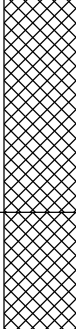


Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	FILL		fine to coarse SAND, trace fine gravel trace fill debris (brick and glass fragments), (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining	P3BS-PDI-2+70-145R-0-0.5
2							P3BS-PDI-2+70-145R-2-2.5
3			dry	FILL		fine to coarse SAND, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining	
4			dry	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, (2.5YR 5/4) reddish brown, medium dense, dry to moist, no odor, no staining	P3BS-PDI-2+70-145R-4-4.5
5	5	0.0					
6			moist	FILL		fine to coarse SAND, trace fine gravel trace wood fragments, fill debris, (5YR 2.5/1) black, medium dense, moist, no odor, no staining	P3BS-PDI-2+70-145R-6-6.5
7			moist	FILL		fine to coarse SAND, trace fine to coarse gravel trace fill debris, (5YR 4/1) dark gray, medium dense, moist, no odor, no staining	P3BS-PDI-2+70-145R-8-8.5
8			moist	FILL		fine to coarse SAND, little ash little fine to coarse gravel, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining	
9	5	1.1					
10							P3BS-PDI-2+70-145R-10-10.5
11							
12							P3BS-PDI-2+70-145R-12-12.5
13	5	0.0					
14							P3BS-PDI-2+70-145R-14-14.5
15							
16							P3BS-PDI-2+70-145R-16-16.5
17	5						
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-2+70-145R-17.5-18.0
19							P3BS-PDI-2+70-145R-18.0-18.5

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

Comments:



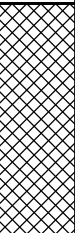




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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	FILL		fine to coarse SAND, trace fine to coarse gravel trace fill debris (concrete birck fragments), (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining	
2							
3							
4							
5	5	0.0				fine to medium SAND, trace fine gravel, (5YR 2.5/1) black, medium dense, moist, no odor, no staining	P3BS-PDI-3+00-160R-6.0-6.5
6							
7		moist	FILL				P3BS-PDI-3+00-160R-8.0-8.5
8							
9	5	1.1	moist	FILL		fine to coarse SAND, some fine gravel trace ash, fill debris (glass, ceramics), (5YR 4/1) dark gray, loose, moist to wet, no odor, no staining	
10							
11							
12							
13	5	1.1	moist to wet	FILL		fine to coarse SAND, trace fine to coarse gravel, (5YR 4/1) dark gray, medium dense,, no odor, no staining	
14							
15	1.5	0.0					
16							
							P3BS-PDI-3+00-160R-16.0-16.5

Comments:

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/21 09:44

Project Name: PPG Garfield Ave	Drilling Company: B&B Drilling, Inc.	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610698.5
Date Started Drilling: 9/16/2020 12:15:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682444.4
Date Finished Drilling: 9/16/2020 12:50:00 PM	Core Size:	Boring Total Depth: 20 ft
Logged By: B Murphy	Project Manager:	Depth to Water:
Physical Location:		Surface Elevation: 14.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, fill debris (brick fragments, glass), (5YR 4/3) reddish brown, dense, dry, no odor, no staining	
2							
3							
4			dry	FILL		fine to coarse SAND, little fine gravel, (5YR 5/1) gray, medium dense, dry, no odor, green staining	
5	5	0.0	dry	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, fill debris, (5YR 4/3) reddish brown, dense, dry to moist, no odor, no staining	
6							P3BS-PDI-3+30-155R-5.7-6.2
7			moist	FILL		fine to coarse SAND, little fine gravel, (5YR 4/1) dark gray, medium dense, moist, slight petroleum odor, no staining	P3BS-PDI-3+30-155R-7.2-7.7
8							
9							P3BS-PDI-3+30-155R-9.2-9.7
10	5	0.0					
11			moist	FILL		fine to coarse SAND, little fine to coarse gravel trace ash, fill debris, (5YR 4/1) dark gray, medium dense, moist, no odor no staining	P3BS-PDI-3+30-155R-11.2-11.7
12							
13							
14							
15	5	0.0					
16							
17							
18							
19							
20							

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

Comments:

PPG - 2012-09 RA PPG LOGS A.GDT - 4/13/22 10:40







Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610695.3
Date Started Drilling: 11/5/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682515.3
Date Finished Drilling: 11/5/2020 9:35:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water:
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	5	0.4		CONCRETE		CONCRETE, no staining	
			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris (glass, ceramics, brick), trace COPR (2%), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist , no odor	
			dry	FILL		fine to coarse SAND, little fine to coarse gravel little fill debris, trace COPR (2%), (7.5YR 2.5/2) very dark brown, medium dense, dry to moist , slight petroleum odor	P3BS-PDI-3+90-120R-4.5-5.0
5	5	0.7	dry	FILL		CONCRETE, little fine to coarse sand, loose, dry , no odor , green staining	
6			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, trace COPR (1%), medium dense, dry to moist strong petroleum odor	P3BS-PDI-3+90-120R-6.5-7.0
7							
8							
9	5	0.8					P3BS-PDI-3+90-120R-8.5-9.0
10			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-3+90-120R-10.5-11.0
11							
12							
13	5	0.8					P3BS-PDI-3+90-120R-12.5-13.0
14							
15							
16							
17	5	0.8					
18							
19							
20							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610687.4
Date Started Drilling: 11/4/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682548.2
Date Finished Drilling: 11/4/2020 9:30:00 AM	Core Size: 3 inch	Boring Total Depth: 20.5 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		4.6		CONCRETE		CONCRETE, no staining	
1	5		dry	FILL		fine to medium SAND, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining, sub-slab leveling sand fine to coarse SAND, little fine to coarse gravel trace fill debris, trace COPR, (2.5Y 2.5/1) black (5Y 2.5/1) black, medium dense, dry, no odor, 3% COPR nodules	P3BS-PDI-4+20-100R-0.8-1.3
2			dry	FILL			P3BS-PDI-4+20-100R-2.0-2.5
3							
4							P3BS-PDI-4+20-100R-4.0-4.5
5	5	0.0	dry	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, fill debris, medium dense, dry to moist, no odor, no staining	
6							P3BS-PDI-4+20-100R-6.0-6.5
7							
8							P3BS-PDI-4+20-100R-8.0-8.5
9	5		moist	FILL		GGM	
10		0.0	moist	FILL			P3BS-PDI-4+20-100R-10.0-10.5
11							
12							P3BS-PDI-4+20-100R-12.0-12.5
13	5					fine to coarse SAND, little ash little fine to coarse gravel, trace fill debris, (7.5YR 3/1) very dark gray, medium dense, moist wet, no odor, no staining, wet at 12.0', slight petroleum odor at 10-10.5'	
14							P3BS-PDI-4+20-100R-14.0-14.5
15		0.0					
16							P3BS-PDI-4+20-100R-16.0-16.5
17	5					fine to coarse SAND, little fine gravel trace coarse gravel trace fill debris, (7.5YR 2.5/2) very dark brown, medium dense, moist to wet, no odor, no staining, petroleum odor at 19-20'	
18			moist	FILL			P3BS-PDI-4+20-100R-18.0-18.5
19							

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:




30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: P3BS-PDI-4+20-100R

Page: 2

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610687.4
Date Started Drilling: 11/4/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682548.2
Date Finished Drilling: 11/4/2020 9:30:00 AM	Core Size: 3 inch	Boring Total Depth: 20.5 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA

Physical Location: **Surface Elevation:** 15.0 ft NAVD88




Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
							P3BS-PDI-4+20-100R-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:

PPG - 2012-09 RA PPG LOGS_A_GDT - 2/1/21 13:13

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610676.7
Date Started Drilling: 11/3/2020 1:10:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682585.5
Date Finished Drilling: 11/3/2020 1:25:00 PM	Core Size: 3 inch	Boring Total Depth: 25 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 8.0ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE		CONCRETE, no staining	
1			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, (7.5YR 2.5/1) black, medium dense, dry to moist, no odor, no staining	
2	5						
3							
4							
5			moist	FILL		fine to coarse SAND, with ash little fine to coarse gravel, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining, water at 8.0'	
6	5						
7							
8							
9							
10							
11							P3BS-PDI-4+50-70R-10.4-10.9
12	5						
13							
14							
15							P3BS-PDI-4+50-70R-14.4-14.9
16							
17	5						
18							
19							

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:



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: P3BS-PDI-4+50-70R

Page: 2

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610676.7
Date Started Drilling: 11/3/2020 1:10:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682585.5
Date Finished Drilling: 11/3/2020 1:25:00 PM	Core Size: 3 inch	Boring Total Depth: 25 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water:
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
21			moist	PT		PEAT (degraded vegetated material)	
22							
23							
24							
25							

Notes:

bgs - below surface grade
MM - meadow mat








COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610720.1
Date Started Drilling: 11/5/2020 7:45:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682600.9
Date Finished Drilling: 11/5/2020 8:30:00 AM	Core Size: 3 inch	Boring Total Depth: 25 ft
Logged By: Brendan Murphy / Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.2 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, no staining	
1			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining	
2	5		dry	FILL		fine to coarse SAND, trace COPR, (5YR 3/3) dark reddish brown, medium dense, dry to moist, 10% COPR	
3							
4			moist	FILL		COPR, little fine to coarse sand, (5YR 3/3) dark reddish brown, medium dense, moist, no odor	
5		0.0	moist	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, (7.5YR 2.5/1) black, medium dense, moist, no odor, no staining	
6	5		moist	FILL		GGM	
7							
8							
9							
10		0.0					
11	5						
12							
13							
14							
15		0.0					
16	5						
17							
18							
19							
20		0.0					P3BS-PDI-4+80-105R-20.0-20.5
21			moist	OL		SILT, trace clay trace organics, (7.5YR 4/1) dark gray, low plasticity medium stiff, moist, no odor, no staining, UND	P3BS-PDI-4+80-105R-20.5-21.0

Notes:

bgs - below surface grade
MM - meadow mat

COPR - chromite ore processing residue
GGM - green grey mud

UNDno - non-organic undisturbed native deposits
UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant
CCPW - chromate chemical production waste

Comments:






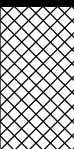

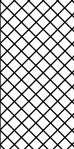
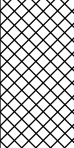

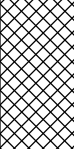

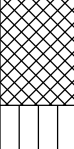
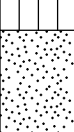

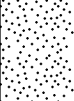

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Comments:

PPG - 2012-09 RA PPG_LOGS_A.GDT - 2/5/21 10:54

Project Name: PPG Garfield Ave	Drilling Company: Cascade	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610663.8
Date Started Drilling: 11/3/2020 7:45:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682640.7
Date Finished Drilling: 11/3/2020 8:30:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy / Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		CONCRETE, no staining	
2			dry	CONCRETE		Concrete Sub-base fine to coarse SAND, (7.5YR 7/1) light gray, very dense, dry, no odor, no staining	
3			NA	ASPHALT		Asphalt	
4			dry	FILL		fine to coarse SAND, little fine gravel trace slag, glass brick fragments, (5YR 2.5/1) black, dense, dry, no odor, no staining	P3BS-PDI-5+10-35R-2.0-2.5
5	5	0.0	moist	FILL		ASH, some coarse gravel, little fine to coarse sands, trace fine gravel, trace fill debris fine to coarse gravel trace glass, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining	P3BS-PDI-5+10-35R-4.0-4.5
6							P3BS-PDI-5+10-35R-6.0-6.5
7							P3BS-PDI-5+10-35R-8.0-8.5
8							P3BS-PDI-5+10-35R-10.0-10.5
9	5	0.0					P3BS-PDI-5+10-35R-12.0-12.5
10							P3BS-PDI-5+10-35R-14.0-14.5
11							P3BS-PDI-5+10-35R-16.0-16.5
12							P3BS-PDI-5+10-35R-17.0-17.5
13	5	0.0	moist	ML		UND SILT, trace clay trace fine sand, trace organics, no CCPW, (7.5YR 3/3) dark brown, low plasticity medium stiff, moist, no odor, no staining	P3BS-PDI-5+10-35R-17.5-18.0
14			moist	SP		fine to coarse SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining	
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:

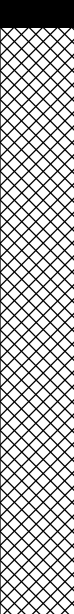
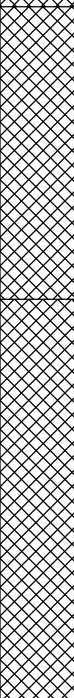
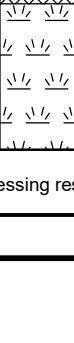
Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610639.3
Date Started Drilling: 9/9/2020 2:20:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682695.3
Date Finished Drilling: 9/9/2020 3:20:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy / Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	5	0.0		ASPHALT		ASPHALT	
				CONCRETE		CONCRETE, no staining	
			dry	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, ash, (7.5YR 6/4) light brown, medium dense, dry, no odor, no staining	P3BS-PDI-5+25-7L-0.0-0.5
							P3BS-PDI-5+25-7L-2.0-2.5
5					P3BS-PDI-5+25-7L-4.0-4.5		
6 7 8 9 10	5	0.0	moist	FILL		fine to coarse SAND, little fine to coarse gravel trace ash, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist to wet, no odor, no staining	P3BS-PDI-5+25-7L-6.0-6.5
						P3BS-PDI-5+25-7L-8.0-8.5	
11 12 13 14	5	0.0					P3BS-PDI-5+25-7L-10.0-10.5
							P3BS-PDI-5+25-7L-12.0-12.5
							P3BS-PDI-5+25-7L-14.0-14.5
16 17 18 19	5	0.0	moist	FILL		fine to medium SAND, little coarse sand trace fine gravel, (2.5YR 2.5/3) dark reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+25-7L-16.0-16.5
			moist	FILL		fine to medium SAND, little coarse sand trace silt, (2.5YR 2.5/3) dark reddish brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+25-7L-17.5-18.0
			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-5+25-7L-18.0-18.5

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610661.7
Date Started Drilling: 9/11/2020 9:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682697.9
Date Finished Drilling: 9/11/2020 9:20:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5		dry	FILL		fine to coarse SAND, little fine gravel trace ash, trace fill debris (glass, ceramics), (7.5YR 4/1) dark gray, loose to medium dense, dry to moist, no odor, no staining	P3BS-PDI-5+40-7R-0.0-0.5
2							P3BS-PDI-5+40-7R-2.0-2.5
3							
4							P3BS-PDI-5+40-7R-4.0-4.5
5	5	0.0				fine to coarse SAND, some fine to coarse gravel trace ash, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining	
6							P3BS-PDI-5+40-7R-6.0-6.5
7							
8							P3BS-PDI-5+40-7R-8.0-8.5
9	5		moist	FILL		fine to coarse SAND, little fine to coarse gravel trace ash, trace fill debris, (7.5YR 5/1) gray, medium dense, moist, no odor, no staining	
10							P3BS-PDI-5+40-7R-10.0-10.5
11							
12							P3BS-PDI-5+40-7R-12.0-12.5
13	5	0.0					
14							P3BS-PDI-5+40-7R-14.0-14.5
15							
16							P3BS-PDI-5+40-7R-16.0-16.5
17	5						
18							P3BS-PDI-5+40-7R-17.5-18.0
19							P3BS-PDI-5+40-7R-18.0-18.5
			moist	PT		PEAT (degraded vegetated material)	

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

Comments:


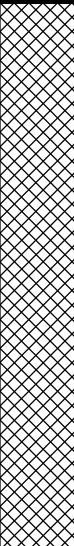

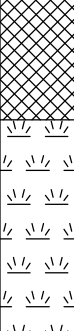
Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610635.1
Date Started Drilling: 9/4/2020 12:40:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682711.3
Date Finished Drilling: 9/4/2020 1:45:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
				CONCRETE		CONCRETE, no staining	
1	5		dry	FILL		fine to coarse SAND, little fine to coarse gravel little ash, (2.5YR 5/1) reddish gray, loose, dry, no odor, no staining	P3BS-PDI-5+40-22L-0.0-0.5
2							P3BS-PDI-5+40-22L-2.0-2.5
3			moist	FILL		fine to medium SAND, little coarse sand trace fine to coarse gravel, trace silt, (10R 3/3) dusky red, medium dense, moist, no odor, no staining	
4			dry	FILL		fine to coarse SAND, little fine to coarse gravel trace ash, trace fill debris (wood, glass), (5YR 2.5/1) black, loose, dry, no odor, no staining	P3BS-PDI-5+40-22L-4.0-4.5
5	5	0.0	moist	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining	
6							P3BS-PDI-5+40-22L-6.0-6.5
7							
8							P3BS-PDI-5+40-22L-8.0-8.5
9							
10			moist	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, trace ash, trace fill debris, (7.5YR 3/1) very dark gray, medium dense, moist, no odor, no staining	P3BS-PDI-5+40-22L-10.0-10.5
11	5	0.0					
12							P3BS-PDI-5+40-22L-12.0-12.5
13							
14							P3BS-PDI-5+40-22L-14.0-14.5
15	5	0.0					
16			moist	FILL		fine to medium SAND, little coarse sand trace silt, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+40-22L-16.0-16.5
17							P3BS-PDI-5+40-22L-17.0-17.5
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-5+40-22L-17.5-18.0
19							

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

Comments:






Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610601.9
Date Started Drilling: 9/8/2020	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682728.5
Date Finished Drilling: 9/8/2020 1:10:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 14.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5		dry	FILL		fine to coarse SAND, little fine to coarse gravel little fill debris, (7.5YR 4/1) dark gray, loose to medium dense, dry to moist, no odor, no staining	P3BS-PDI-5+40-60L-0.0-0.5
2							P3BS-PDI-5+40-60L-2.0-2.5
3							
4							P3BS-PDI-5+40-60L-4.0-4.5
5	5	0.0					
6							P3BS-PDI-5+40-60L-6.0-6.5
7							
8							P3BS-PDI-5+40-60L-8.0-8.5
9	5		moist	FILL		fine to coarse SAND, some fine to coarse gravel trace ash, trace fill debris, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining	
10							P3BS-PDI-5+40-60L-10.0-10.5
11							
12							P3BS-PDI-5+40-60L-12.0-12.5
13	5	0.0				fine to coarse SAND, trace fine to coarse gravel trace fill debris, (7.5YR 5/1) gray, medium dense, moist, no odor, no staining	
14							P3BS-PDI-5+40-60L-14.0-14.5
15							
16							P3BS-PDI-5+40-60L-16.0-16.5
17	5	0.0					P3BS-PDI-5+40-60L-16.5-17.0
18							
19							P3BS-PDI-5+40-60L-17.0-17.5
20							
			moist	PT		PEAT (degraded vegetated material)	

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610655.1
Date Started Drilling: 9/10/2020 10:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682717.9
Date Finished Drilling: 9/10/2020 11:20:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: 6.0 ft
Physical Location: 800 Garfield Avenue		Surface Elevation: 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		ASPHALT		ASPHALT	
1	5		dry	FILL		medium to coarse SAND, some fine to coarse gravel, (7.5YR 2.5/1) black, loose to medium dense, dry, no odor, no staining	P3BS-PDI-5+55-7L-0-0.5
2			moist	FILL		fine to coarse SAND, some ash little fine to coarse gravel, trace fill debris (glass, ceramics), (7.5YR 5/1) gray, medium dense, moist, no odor, no staining	P3BS-PDI-5+55-7L-2-2.5
3							
4			moist	FILL		fine to medium SAND, little coarse sand trace fine gravel, (7.5YR 5/6) strong brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+55-7L-4-4.5
5	5	0.0	moist	FILL		fine to coarse SAND, little ash trace fine to coarse gravel, trace fill debris, (5Y 2.5/1) black, medium dense, moist to wet, no odor, no staining	
6			wet	FILL		fine to coarse SAND, little ash trace fine to coarse gravel, trace fill debris, (5YR 5/1) gray, medium dense, wet, no odor, no staining	P3BS-PDI-5+55-7L-6-6.5
7							
8							P3BS-PDI-5+55-7L-8-8.5
9	5	0.0					
10							P3BS-PDI-5+55-7L-10-10.5
11							
12							P3BS-PDI-5+55-7L-12-12.5
13	5	0.0					
14							P3BS-PDI-5+55-7L-14-14.5
15							
16			moist	FILL		fine to coarse SAND, trace coarse sand trace silt, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+55-7L-16-16.5
17	5	0.0					P3BS-PDI-5+55-7L-17-17.5
18			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-5+55-7L-17.5-18
19							

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

Comments:








Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610728.6
Date Started Drilling: 9/14/2020 10:20:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682697.4
Date Finished Drilling: 9/14/2020 11:30:00 AM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 13.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5		moist	FILL		fine to coarse SAND, little (20%) COPR trace fine gravel, (7.5YR 3/4) dark brown, medium dense, moist, no odor	P3BS-PDI-5+70-70R-0-0.5
2			moist	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, trace (5%) COPR, (7.5YR 2.5/3) very dark brown, medium dense, moist, no odor	P3BS-PDI-5+70-70R-2-2.5
3			moist	FILL		fine to coarse SAND, little fine gravel trace coarse gravel, (7.5YR 2.5/3) very dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+70-70R-4-4.5
4							
5		0.0					
6	5		moist	FILL		fine to coarse SAND, little fine to coarse gravel trace fill debris (glass, ceramics), (7.5YR 2.5/2) very dark brown, medium dense, moist, no odor, no staining	P3BS-PDI-5+70-70R-6-6.5
7							
8							
9							
10		0.0	moist	FILL		fine to coarse SAND, little ash trace fine to coarse gravel, trace fill debris, (5Y 6/1) gray, medium dense, moist, no odor, no staining	P3BS-PDI-5+70-70R-10-10.5
11							
12	5						
13							
14							
15		0.0					
16							
17	5						
18							
19			moist	PT		PEAT (degraded vegetated material)	P3BS-PDI-5+70-70R-18.5-19

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

Comments:

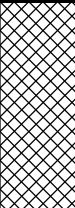

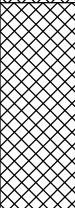
Project Name: PPG Garfield Ave	Drilling Company: Summit	
Project Number: 60635148	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610786.2
Date Started Drilling: 9/11/2020 3:30:00 PM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682668.3
Date Finished Drilling: 9/11/2020 4:00:00 PM	Core Size: 3 inch	Boring Total Depth: 20 ft
Logged By: Brendan Murphy	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 13.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		FILL		DGA (clean fill over poly)	
				ASPHALT		ASPHALT	
			dry	FILL		fine to coarse SAND, trace fine to coarse gravel little (30%) COPR, (2.5YR 5/3) reddish brown, medium dense, dry to moist, no odor	
2	5	0.0					
3			moist	FILL		COPR, little fine to coarse sand, (5YR 3/3) dark reddish brown, dense, moist, no odor	
4							
5	5	0.0					
6			moist	FILL		GGM	
7							
8	5	0.0					
9							
10							
11	5	0.0					P3BS-PDI-5+70-130R-17.5-18.0
12							
13							
14	5	0.0					
15			moist	FILL		medium to coarse SAND, little fine gravel trace COPR, (5YR 3/3) dark reddish brown, medium dense, moist, no odor	
16							
17	5	0.0					
18			moist	OL		SILT, trace fine to medium sand trace organics, (5YR 5/1) gray, medium dense, moist, no odor, no staining	
19							P3BS-PDI-5+70-130R-18.0-18.5

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

Comments:

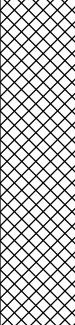

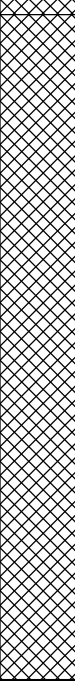
Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method: Test Pit	Coordinates (NJSPNAD83) x: 610675.4
Date Started Drilling: 11/5/2020 7:05:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682180.8
Date Finished Drilling: 11/5/2020 10:00:00 AM	Core Size:	Boring Total Depth: 3.2 ft
Logged By:	Project Manager:	Depth to Water:
Physical Location:		Surface Elevation: 11.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	3.2	15.7		FILL		Topsoil, roots, vegetation, (7.5YR 3/2) dark brown	
				FILL		coarse SAND, with gravel, some roots and vegetation, (7.5YR 2.5/1) black	P3BS-PDI-TP-0+80-250R-0.8-1.3
1				FILL		coarse SAND, with gravel, (7.5YR 2.5/1) black	
2							P3BS-PDI-TP-0+80-250R-2.2-2.7
3							P3BS-PDI-TP-0+80-250R-2.7-3.2

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company:	
Project Number: 60240739	Drilling Method: Test Pit	Coordinates (NJSPNAD83) x: 610579.6
Date Started Drilling: 11/4/2020 7:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682286.1
Date Finished Drilling: 11/4/2020 9:30:00 AM	Core Size:	Boring Total Depth: 8 ft
Logged By:	Project Manager:	Depth to Water:
Physical Location:		Surface Elevation: 13.0 ft NAVD88


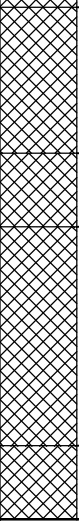


Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	FILL		fine to medium SAND, some coarse gravel, little fill debris (bricks, ceramic fragments and slag), (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining	P3BS-PDI-TP-1+35-125R-0.5-1.0
2			dry	FILL		fine to medium SAND, some coarse gravel, little fill debris (bricks, ceramic, metal and slag), (7.5YR 4/2) brown, loose, dry to moist, slight petroleum odor, no staining	P3BS-PDI-TP-1+35-125R-1.9-2.4
4	4	0.0	moist	FILL		fine to medium SAND, some coarse gravel, little fill debris (bricks, wood, metal and glass fragments), trace plastic debris, (7.5YR 3/2) dark brown, (5Y 2.5/1) black, loose, moist, strong petroleum odor, hydrocarbon staining. Water at 8.0 ft. Sheen observed.	P3BS-PDI-TP-1+35-125R-3.2-3.7
8							

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

Comments:

PPG - 2012-09 RA PPG LOGS A.GDT - 4/13/22 10:40


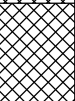


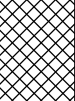


Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610513.1
Date Started Drilling: 11/2/2020 7:45:00 AM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682470.1
Date Finished Drilling: 11/2/2020 9:45:00 AM	Core Size: 3 ft x 6 ft	Boring Total Depth: 8 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.5 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	
1	4		dry to moist moist	FILL		SAND, (7.5YR 6/3) light brown	P3BS-PDI-TP-2+70-20L-1.0-1.5
2				FILL		fine to medium SAND, some coarse gravel, trace silts, (7.5YR 4/2) brown, no odor	
3			NA	FILL		Crushed rocks	
4	4	0.0	moist	FILL		fine to medium SAND, with angular rocks and coarse gravel, trace silt, (7.5YR 3/2) dark brown	
5							
6							
7			moist	FILL		ASH, some silt, wood fragments and coarse gravel, (7.5YR 3/2) dark brown, moist	
8							

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

Comments:










Project Name: Phase 3B South Remediation	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test Pit	Coordinates (NJSPNAD83) x: 610674.9
Date Started Drilling: 8/5/2021	Rig Type:	Coordinates (NJSPNAD83) y: 682422.5
Date Finished Drilling: 8/5/2021	Core Size:	Test Pit Total Depth: 8.5 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water:
Physical Location:		Surface Elevation: 15.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			NA			Not Recorded; Test Pit Conducted Within the Excavation Area	
2							
3							
4							
5							
6							
7							
8							
9							
10			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris, No CCPW [FILL], 10YR 4/3 (brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-9.7-10.2
11			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris No CCPW [FILL], 10YR 4/3 (brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-10.7-11.2
12			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris No CCPW [FILL], 2.5Y 4/2 (dark grayish brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-12.7-13.2
13			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris No CCPW [FILL], 10YR 4/3 (brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-14.7-15.2
14			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris No CCPW [FILL], 10YR 4/3 (brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-16.7-17.2
15			moist	FILL		Poorly graded sand with gravel (SP), fine to medium, subrounded, 10-20% subrounded, fine gravel and Ash, Trace debris No CCPW [FILL], 10YR 4/3 (brown), moist, no odour, no staining, non-cohesive, loose	P3BS-PDI-TP3+00-140R-EX-17.2-17.7
16			moist	PEAT		Organic soil, 25-35% peat and roots, No CCPW [MEADOW MAT], 10YR 2/1 (black), moist, peaty odour, no staining, cohesive, medium stiff to medium stiff	
17							
18							

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

Comments:



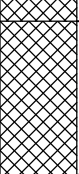
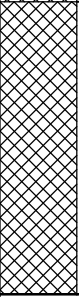
Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610542.0
Date Started Drilling: 10/30/2020 9:55:00 AM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682522.6
Date Finished Drilling: 10/30/2020 11:30:00 AM	Core Size: 3 ft x 6 ft	Boring Total Depth: 8 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.6 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	
1			dry	FILL		SAND, (7.5YR 6/3) light brown	
2	4		dry to moist	FILL		fine SAND, with silt, some bricks, angular gravel, cobbles, little clay	P3BS-PDI-TP-3+30-15L-1.5-2.0
3							
4		0.0					
5							
6	4		dry to moist	FILL		fine SAND, with silt, some angular gravels, no odor	
7							
8							

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

Comments:






Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610595.7
Date Started Drilling: 10/29/2020 12:00:00 PM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682495.9
Date Finished Drilling: 10/29/2020 1:30:00 PM	Core Size: 3 ft x 6 ft	Boring Total Depth: 8 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.5		CONCRETE		Concrete	
2			dry	FILL		medium to coarse SAND, (7.5YR 6/3) light brown, dry, no odor	
3			dry	FILL		SILT, some fine to medium subangular and angular gravel, brick, glass and metal debris, trace ash and clay, (7.5YR 3/2) dark brown, dry, burnt rubber odor	
4	4	0.0	dry	FILL		ASH, some glass, tile, metal, paper products, trace clay and silt, (5Y 5/1) gray, dry, burnt rubber odor	P3BS-PDI-TP-3+30-40R-6.3-6.8
5							
6							
7							
8							

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

Comments:





Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610554.5
Date Started Drilling: 10/29/2020 8:00:00 AM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682550.0
Date Finished Drilling: 10/29/2020 9:05:00 AM	Core Size: 3 ft x 6 ft	Boring Total Depth: 8 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.5		CONCRETE		Concrete	
1			dry	FILL		fine to medium SAND, (7.5YR 6/3) light brown, dry, no odor	
	4		dry	FILL		SILT, with fill materials, little medium to coarse subangular gravel, trace wood, glass, metal debris, (7.5YR 3/2) dark brown, dry, slight petroleum odor	P3BS-PDI-TP-3+60-20L-1.5-2
2			dry	FILL		SILT, with fill material and slag, little medium to coarse subangular gravel, trace wood, glass, metal debris and ash, (5YR 5/1) gray (7.5YR 3/2) dark brown, dry, no odor	
3							
4		0.0	dry	FILL		ASH, with slag, little fine to medium subangular gravel, glass, wood, metal debris, (5Y 6/1) gray, dry, no odor	
5	4						
6							
7							
8							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610595.0
Date Started Drilling: 10/28/2020 11:45:00 AM	Rig Type: Excavator	Coordinates (NJSPNAD83) y: 682630.2
Date Finished Drilling: 10/28/2020 1:00:00 PM	Core Size: 3 ft x 6 ft	Boring Total Depth: 8 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: 800 Garfield Avenue		Surface Elevation: 15.5 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	
1			dry	FILL		fine to medium SAND, (5YR 6/4) light reddish brown	
2	4		dry	FILL		silty SAND, little clay, trace fine to medium subangular gravel, bricks, glass, tiles and ash, (7.5YR 3/2) dark brown, dry, no odor	P3BS-PDI-TP-4+50-20L-1.2-1.7
3							
4		0.0	dry	FILL		ASH, some glass, tile and bricks, trace clay and paper, (5Y 5/1) gray, dry, no odor	
5	4						
6							
7							
8							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610669.7
Date Started Drilling: 9/12/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682231.2
Date Finished Drilling: 9/12/2014 11:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 10.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry	FILL		ASH, some fine to medium sand, little COPR, (7.5YR 2.5/1) black, loose, dry, no odor, no staining. fine to medium SAND, little silt, little ash, trace brick, trace fine to medium gravel, trace coal, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	P4-HAL-O46A-0.5-1.0
2		0.0	dry	FILL			P4-HAL-O46A-2.5-3.0
3							
4							
5	5	0.0	moist to wet	FILL		ASH, some fine to medium sand, trace fine to medium gravel, (7.5YR 3/2) dark brown, loose, moist to wet.	P4-HAL-O46A-4.5-5.0
6							P4-HAL-O46A-6.5-7.0
7							
8							
9	5	0.0	moist	FILL		fine to medium SAND, some ash, some cinders, little brick, (5YR 3/3) dark reddish brown, loose, moist, no odor, no staining. fine to medium silty SAND, little fine to medium gravel, (5YR 4/3) reddish brown, loose, wet to saturated, no odor, no staining.	P4-HAL-O46A-8.5-9.0
10							P4-HAL-O46A-10.5-11.0
11							
12							
13	5	0.0	dry to sl moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 4/3) brown, medium stiff, dry to slightly moist, moderate organic odor. Soils consistent with MM. UND organic SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	P4-HAL-O46A-12.5-13.0
14		0.0	sl moist	OL			P4-HAL-O46A-13.0-13.5
15			slightly moist				

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: P4-HAL-O47A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610665.4
Date Started Drilling: 9/12/2014 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682204.0
Date Finished Drilling: 9/12/2014 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 11.1 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		0.0	dry	FILL		fine to medium SAND, some gravel, some concrete, (10YR 6/1) gray, non plastic, loose to medium dense, dry, no odor.	P4-HAL-O47A-2.0-2.5
4		0.0		ASPHALT		ASPHALT	P4-HAL-O47A-4.0-4.5
5	5	9.9	dry	FILL		ASH, some sand, trace fine to medium gravel, (10YR 3/1) very dark gray, non plastic, loose to medium dense, dry, no odor.	P4-HAL-O47A-6.0-6.5
6							
7							
8	5						P4-HAL-O47A-8.0-8.5
9		0.0	moist	FILL		silty SAND, trace fine to medium gravel, (5YR 3/4) dark reddish brown, low plasticity, medium dense, moist, no odor.	
10		0.0	moist	FILL		silty SAND, trace gravel, (5YR 4/4) reddish brown, low plasticity, medium dense, moist, no odor.	P4-HAL-O47A-10.0-10.5
11	5						
12							P4-HAL-O47A-12.0-12.5
13							
14		0.0	slightly moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, slightly moist, moderate organic odor. Soils consistent with MM.	P4-HAL-O47A-13.5-14.0 P4-HAL-O47A-14.0-14.5
15							

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



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732.564.3200 office telephone

Boring ID: P4-HAL-P44A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610720.8
Date Started Drilling: 9/9/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682260.4
Date Finished Drilling: 9/9/2014 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 11.5 ft NAVD88

(Note bgs = below ground surface)


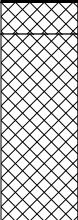
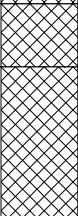

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	ASPHALT		ASPHALT, some gravel, dry, no odor.	
		0.0	dry to sl	FILL		fine to coarse SAND, trace cinders, trace gravel, (10YR 3/4) dark yellowish brown, non plastic, medium dense, dry to slightly moist, no odor.	P4-HAL-P44A-0.5-1.0
		0.0	sl moist	ASPHALT		ASPHALT, trace gravel, dry.	
2		0.0	dry	FILL		fine to coarse SAND, trace cinders, trace wood fragments, trace gravel, (10YR 3/1) very dark gray, non plastic, medium dense, dry to slightly moist, no odor.	P4-HAL-P44A-2.5-3.0
3			dry to sl moist				
4		0.0	slightly moist	FILL		fine to coarse silty SAND, trace rock fragments, trace GGM, (10YR 5/2) grayish brown, low plasticity, stiff to medium soft, slightly moist, no odor.	P4-HAL-P44A-4.5-5.0
5		0.0	dry	FILL		silty SAND, trace rock fragments, some cinders, (10YR 5/2) grayish brown, low plasticity, medium dense, dry, no odor.	
6	5	0.0	slightly moist	FILL		ASH, trace sand, trace silt, trace brick, trace gravel, non plastic, medium dense, slightly moist, no odor.	P4-HAL-P44A-6.5-7.0
7							
8							
9		0.0	dry	FILL		CINDERS, some fine to medium sand, trace ash, trace rock fragments, (10YR 4/1) dark gray, non plastic, loose to medium dense, dry, no odor.	P4-HAL-P44A-8.5-9.0
10		0.0	moist	FILL		SAND, some fine to medium sand, trace ash, trace rock fragments, (10YR 4/1) dark gray, non plastic, loose to medium dense, moist, no odor.	P4-HAL-P44A-10.5-11.0
11	5	0.0	moist	FILL		fine to medium silty SAND, trace gravel, (2.5YR 3/3) dark reddish brown, low plasticity, medium dense, moist, no odor.	P4-HAL-P44A-12.5-13.0
12							
13							
14							
15		0.0	slightly moist	PT		PEAT (degraded vegetated material), 70% organic fibers, 30% organic silt, slightly moist, moderate organic odor. Soils consistent with MM.	P4-HAL-P44A-14.5-15.0
16	5	0.0	slightly moist	OL		UND organic SILT, 90% organic silt, 10% organic fibers, (10YR 4/1) dark gray, low plasticity, slightly moist, moderate organic odor. Soils consistent with UNDorg.	P4-HAL-P44A-15.0-15.5
17							
18							
19							
20							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610699.2
Date Started Drilling: 9/15/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682240.7
Date Finished Drilling: 9/15/2014 9:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 11.3 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to medium SAND, little fine to medium gravel, 10% COPR, (5YR 3/3) dark reddish brown, loose, dry, no odor, no staining. ASH, some concrete, little fine to medium gravel, trace brick, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	P4-HAL-P45A-0.5-1.0
		0.0	dry	FILL			P4-HAL-P45A-2.5-3.0
		0.0	dry	FILL			P4-HAL-P45A-4.5-5.0
		0.0	dry	FILL			P4-HAL-P45A-6.5-7.0
6 7 8 9 10	5	0.0	dry to sl moist	FILL		fine to medium SAND, and ash, little fine to medium gravel, trace coal, (10YR 3/1) very dark gray, loose, dry, no odor, no staining. ASH, some fine to medium sand, little medium gravel, trace chrome-stained concrete, (10YR 3/1) very dark gray, loose, dry to slightly moist, no odor.	P4-HAL-P45A-8.5-9.0
		0.0	wet	FILL			P4-HAL-P45A-10.5-11.0
		0.0	wet	FILL			P4-HAL-P45A-12.5-13.0
		0.0	wet	FILL			P4-HAL-P45A-13.5-14.0
		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 3/3) dark brown, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with MM.	P4-HAL-P45A-14.0-14.5
15							

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610774.3
Date Started Drilling: 9/8/2014 9:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682309.6
Date Finished Drilling: 9/8/2014 10:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 11.5 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
2		68	dry	FILL		fine to medium SAND, and ash, trace brick, (10YR 4/2) dark grayish brown, loose, dry, no odor, no staining.	P4-HAL-Q42A-0.5-1.0
3		12.0	dry	FILL		fine to medium SAND, and ash, some gravel, little fill material, (10YR 2/1) black, loose to hard, dry, slight petroleum odor, no staining.	P4-HAL-Q42A-2.5-3.0
4		0.0	moist	FILL		fine to medium silty SAND, little ash, trace wood fragments, trace GGM, (10YR 5/2) grayish brown, loose, moist, no odor, no staining.	P4-HAL-Q42A-4.5-5.0
5	5	0.0	moist	FILL		fine to medium gravelly SAND, some ash, little cinders, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
6		0.0	moist	FILL		fine to medium silty SAND, little medium to coarse gravel, little brick, (10YR 4/2) dark grayish brown, loose, moist, no odor, no staining.	P4-HAL-Q42A-6.5-7.0
7							
8		0.0	moist	FILL		ASH, some cinders and fine to medium sand, little brick, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	P4-HAL-Q42A-8.5-9.0
9	5						
10		0.0	moist	FILL		CINDERS, some ash, little fill material, (7.5YR 5/1) gray, loose, moist, no odor, no staining.	P4-HAL-Q42A-10.5-11.0
11							
12		0.0	moist	FILL		fine to medium SAND, some gravel, little brick, trace coal and debris, (5YR 3/4) dark reddish brown, loose, moist, no odor, no staining.	P4-HAL-Q42A-12.5-13.0
13	5						
14							
15		0.0	moist	FILL		fine silty SAND, trace gravel and fill, trace organic fibers, (7.5YR 2.5/1) black, loose, moist, slight organic odor, no staining.	P4-HAL-Q42A-14.5-15.0
16		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 4/3) brown, non plastic, medium stiff to dense, slightly moist, strong organic odor, no staining. Soils consistent with MM.	P4-HAL-Q42A-15.0-15.5
17	5						
18		0.0	moist	OL		UNDorg SILT, 80% organic silt, 20% organic fibers, (10YR 4/1) dark gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	P4-HAL-Q42A-15.5-16.0
19							
20							

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610759.8
Date Started Drilling: 9/9/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682280.6
Date Finished Drilling: 9/9/2014 10:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 15.5 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 11.3 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	0.0	dry	FILL		CONCRETE, little medium gravel, little sand, (7.5YR 7/1) light gray, loose, dry, no odor, no staining.	P4-HAL-Q43A-0.5-1.0
2		0.0	dry	FILL		fine to medium SAND, and cinders, trace debris, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	
3							P4-HAL-Q43A-2.5-3.0
4		0.0	moist	FILL		fine to medium silty SAND, some cinders, trace wood fragments, trace brick, (10YR 3/2) very dark grayish brown, loose, moist, no odor, no staining.	P4-HAL-Q43A-4.5-5.0
5	5	0.0	moist to wet	FILL		fine to medium silty SAND, little concrete, trace brick, trace gravel, (7.5YR 4/1) dark gray, loose, moist to wet, no odor, no staining.	
6							P4-HAL-Q43A-6.5-7.0
7		0.0	moist to wet	FILL		fine silty SAND, and cinders, little gravel, (7.5YR 2.5/3) very dark brown, loose, moist to wet, no odor, no staining.	P4-HAL-Q43A-8.5-9.0
8		0.0	moist	FILL		CINDERS, little fine to medium gravel, trace wood fragments, trace debris, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	
9	5.5	0.0	wet	FILL		CINDERS, some ash, little gravel, trace wood fragments, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	P4-HAL-Q43A-10.5-11.0
10		0.0	moist to wet	FILL		fine to medium silty SAND, little fine to medium gravel, (5YR 3/4) dark reddish brown, loose, moist to wet, no odor, no staining.	
11							P4-HAL-Q43A-12.5-13.0
12							
13		0.0	slightly moist	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (7.5YR 4/3) brown, medium stiff, slightly moist, slight organic odor, no staining. Soils consistent with MM.	P4-HAL-Q43A-14.0-14.5
14							
15							

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



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Boring ID: P4-HAL-R42A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610800.6
Date Started Drilling: 9/10/2014 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682380.4
Date Finished Drilling: 9/10/2014 9:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SS	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Halliday		Elevation: 10.9 ft NAVD88

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5	8.1	dry	FILL		fine to medium SAND, little gravel, trace wood, trace concrete (20% COPR), (5YR 3/3) dark reddish brown, loose, dry, slight petroleum odor, no staining. ASH, some fine to medium sand, little gravel, (7.5YR 2.5/1) black, loose, dry, strong petroleum odor.	P4-HAL-R42A-0.5-1.0
2		64.8	dry	FILL			P4-HAL-R42A-2.5-3.0
3							
4							
5	4	610.0	moist to wet	FILL		ASH, some cinders, little glass fragments, trace fine to medium gravel, (7.5YR 2.5/1) black, loose, moist to wet, strong petroleum odor, hydrocarbon staining. fine to medium SAND, some silt, little cinders, trace wood fragments, (7.5YR 2.5/1) black, loose, wet, strong petroleum odor, hydrocarbon staining.	P4-HAL-R42A-4.5-5.0
6							
7		63.8	wet	FILL			P4-HAL-R42A-6.5-7.0
8							
9				NR		NO RECOVERY	P4-HAL-R42A-8.5-9.0
10	5	0.0	moist	FILL		CINDERS, some ash, little fine gravel, trace coal, trace wood fragments, (7.5YR 4/1) dark gray, loose, moist, moderate petroleum odor, no staining. fine to medium silty SAND, little fine gravel, trace wood fragments, (7.5YR 3/3) dark brown, loose, moist, no odor, no staining.	P4-HAL-R42A-10.5-11.0
11		0.0	moist	FILL			
12							P4-HAL-R42A-12.5-13.0
13							
14							P4-HAL-R42A-14.5-15.0
15	5	0.0	moist	PT		PEAT (degraded vegetated material), 60% organic silt, 30% organic fibers, (7.5YR 3/2) dark brown, medium stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	P4-HAL-R42A-15.0-15.5
16							
17		0.0	moist	OL			
18							
19							
20							

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

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



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Boring ID: TWA-1

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610735.5
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682590.8
Date Finished Drilling: 4/5/2012	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Indoors, within the Morris Canal		Elevation: 15.3 ft NAVD88

(Note bgs = below ground surface)

PPG - GINT STD US LAB.GDT - 5/7/12 11:12 - C:\DOCUMENTS AND SETTINGS\STANCHAK\MY DOCUMENTS\PPG 10 WEST BORINGS.GPJ

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.9	0	Dry	1	Fill		White Concrete, no staining, dense.	TWA-B001-1.0
2		0	Moist	4B	Fill		Light Reddish Brown (5YR 6/4) fine to medium SAND, little fine angular Gravel and Concrete, 10% COPR, moist, medium dense. No odor.	
3		0	Moist	4A	Fill		Dusky Red (10YR 3/4) SILT and fine rounded GRAVEL (nodules), 100% COPR, moist, medium dense. No odor.	TWA-B001-3.0
4			Moist	4A	Fill		No Recovery	
5	2.5	0					Dusky Red (10YR 3/4) SILT and fine rounded GRAVEL (nodules), 100% COPR, wet, medium dense. No odor.	TWA-B001-5.0
6		0	Wet	4A	Fill		Black (10YR 2/1) fine SAND, wet, loose. No odor.	
7		0	Wet	3	Fill		Greenish Grey (Gley1 6/1) SILT and medium angular Gravel, 50% GGM, wet, loose. No odor.	TWA-B001-7.0
8			Wet	5	Fill		No Recovery	
9			Wet	5	Fill		Pale Olive (10YR 6/4) SILT and fine SAND, some medium angular Gravel, 100% GGM, chalky, calcium leachate, wet, medium dense. Chemical odor.	
10	5	0						TWA-B001-10.0
11		0	Wet	5	Fill		Black (10YR 2/1) CLAY, little Silt, wet, soft. No odor. (Canal bottom.)	
12		0	Moist	3	Fill		Black (10YR 2/1) fine SAND and FILL (brick, coal), little fine angular Gravel, dense, moist. No odor.	TWA-B001-12.0
13		0					Dark Reddish Brown (5YR 3/3) PEAT (Meadow mat), trace Silty Clay, moist, stiff. No odor.	
14		0	Moist	7	PT		No Recovery	
15	2.5	0	Moist	7	PT			
16								
17		0						
18		0						
19		0						
20	4	0						TWA-B001-20.0
21		0	Moist	7	PT		Dark Reddish Brown (5YR 3/3) PEAT (Meadow mat), trace Silty Clay, moist, stiff. No odor.	
22		0						
23		0						TWA-B001-22.0
24			Moist	8	SP		Gray (10YR 5/1) very fine SAND, moist, dense. No odor.	
25			Moist	8	SP		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: Trace COPR from 0.5-2.5 ft. 100% COPR from 2.5-6.0 ft. GGM from 7.0-15.0 ft. Sampled on 4/6/12.



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Boring ID: TWA-2

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610699.0
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682516.0
Date Finished Drilling: 4/5/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.5 ft
Physical Location: Indoors		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.5	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry, no staining, no rebar.	TWA-B002-1.0
2		0	Dry	4B	FILL		fine gravelly SAND, little cinders, coal and silt, 75% COPR, (2.5YR 4/4) reddish brown (7.5YR 2.5/1) black, dense, dry, no odor, rounded	
3		0						
4			Moist	3	FILL		fine silty SAND, some fill material (brick, concrete coal, ash), (7.5YR 2.5/1) black (10YR 4/3) brown, dense, moist, no odor	TWA-B002-3.0
5	1.6	0	Moist	3	FILL		NO RECOVERY	TWA-B002-5.0
6			Moist to Wet	3	FILL		fine silty SAND, some fill material (brick, concrete, coal, ash), (7.5YR 2.5/1) black (10YR 4/3) brown, medium dense, moist to wet, at 5.5 ft., no odor	TWA-B002-6.0
7			Wet	3	FILL		NO RECOVERY	
8								
9								
10	1	0						TWA-B002-10.0
11			Wet	3	FILL		fine silty SAND, some fill material (brick, concrete, ash, coal), (7.5YR 2.5/1) black, medium dense, wet, no odor	
12			Wet	3	FILL		NO RECOVERY	
13								
14								
15	0.9	0						TWA-B002-15.0
16			Wet	3	FILL		fine silty SAND, some fill material (brick, concrete, coal, ash), (7.5YR 2.5/1) black, medium dense, wet, no odor	
17			Wet	3	FILL		NO RECOVERY	
18								
19								
20	3	0						
21			Moist	7	PT		90% PEAT (Meadow Mat), 5% silt 5% clay, (7.5YR 3/3) dark brown, medium stiff, moist, no odor	TWA-B002-21.0
22								
23								TWA-B002-23.0
24			Moist	7	PT		NO RECOVERY	TWA-B002-23.0X
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: 75% COPR from 0.5-2.5 ft.. Sampled on 4/6/12.



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Boring ID: TWA-3/ICO-15

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610648.5
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682428.1
Date Finished Drilling: 4/5/2012	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.0 ft
Physical Location: Indoors		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.9	0	Dry	1	Fill		White Concrete, no staining, dense.	ICO-B015-1.0
2		0	Dry	6	Fill		Black fine SAND, some Brick and Concrete, little coal and cinders, dry, loose. No odor.	
3		0						ICO-B015-3.0
4								
5	2	0	Dry	6	Fill		No Recovery	ICO-B015-5.0
6		0	Moist	6	Fill		Black fine SAND, some Brick and Concrete, little coal and cinders, moist, loose. No odor.	
7			Wet	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, little coal frags, wet, loose. No odor.	ICO-B015-7.0
8			Wet	6	Fill		No Recovery	
9								
10	3	0						ICO-B015-10.0
11		0	Wet	6	Fill		Black fine SAND and CINDERS, little interbedded Ash, wet, medium dense. No odor.	
12		0						ICO-B015-12.0
13								
14			Wet	6	Fill		No Recovery	
15	2	0						ICO-B015-15.0
16		0	Wet	6	Fill		Black fine SAND and CINDERS, little interbedded Ash, wet, medium dense. No odor.	
17								ICO-B015-17.0
18			Wet	6	Fill		No Recovery	
19								
20	4	0						ICO-B015-20.0
21		0	Moist	7	OL		Black (10YR 2/1) organic SILT, little interbedded Clay, moist, soft. No odor.	
22		0						ICO-B015-22.0
23		0	Moist	7	PT		Dark Reddish Brown (5YR 3/3) PEAT, meadow mat, trace Silty Clay, moist, stiff. No odor.	ICO-B015-22.0X
24			Moist	8	SM		Gray (10YR 6/1) very fine SAND, trace Silt, moist, dense. No odor.	
25			Moist	8	SM		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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




Boring ID: TWA-4

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610671.9
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682620.8
Date Finished Drilling: 4/5/2012	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.5 ft
Physical Location: Indoors		Elevation 15.1 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	4.6	0	Dry	1	Fill		White Concrete, no staining, dense.	TWA-B004-1.0
2		0	Dry to moist	3	Fill		Dark Grayish Brown (10YR 4/2) fine SAND and fine crushed FILL (coal, brick, ash, concrete), dry to moist at 1.0 ft, loose. No odor.	
3		0						TWA-B004-3.0
4			Moist	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, little fine to medium Sand and Silt, moist, loose. No odor.	
5	1.5	0	Moist	6	Fill		No Recovery	TWA-B004-5.0
6		0	Moist to wet	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, little fine to medium Sand and Silt, moist to wet at 5.5 ft, loose. No odor.	TWA-B004-6.0
7			Wet	6	Fill		No Recovery	
8								
9								
10	1.5	0						TWA-B004-10.0
11		0	Wet	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, little fine to medium Sand and Silt, wet, loose. No odor.	
12			Wet	6	Fill		No Recovery	
13								
14								
15	3	0						TWA-B004-15.0
16		0	Wet Moist	6 7	Fill PT		Grayish Brown (10YR 5/2) ASH and CINDERS, little fine to medium Sand and Silt, wet, loose. No odor.	
17		0					Very Dark Brown (10YR 2/2) PEAT (Meadow mat), little Silty Clay, moist, semi-cohesive, stiff. No odor.	TWA-B004-17.0
18								
19			Moist	7	PT		No Recovery	
20	2.5	0						TWA-B004-20.0
21		0	Moist	7	PT		Very Dark Brown (10YR 2/2) PEAT (Meadow mat), little Silty Clay, moist, semi-cohesive, stiff. No odor.	
22								TWA-B004-22.0
23			Moist Moist	8 8	SM SM		Gray (10YR 5/1) very fine SAND, trace Silt, moist, dense. No odor.	TWA-B004-22.0X
24							No Recovery	
25								
26							End of boring at 25 ft.	
27								
28								
29								
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31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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Boring ID: TWA-5

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610631.7
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682542.2
Date Finished Drilling: 4/5/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.5 ft
Physical Location: Indoors		Elevation: 15.2 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.5	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry , no staining, no rebar.	TWA-B005-1.0
2		0	Dry	3	FILL		fine SAND, and fill material (concrete, brick, coal, gravel), (10YR 4/2) dark grayish brown, medium dense, dry , no odor	
3								TWA-B005-3.0
4			Dry	3	FILL		NO RECOVERY	
5	1.2	0						
6			Moist to Wet	6	FILL		ASH, and cinders trace fill material, (10YR 2/1) black, loose, moist to wet , no odor, (trace glass), wet at 5.5 ft.	TWA-B005-6.0
7			Wet	6	FILL		NO RECOVERY	
8								
9								
10	0.8	0						TWA-B005-10.0
11			Wet	6	FILL		ASH, and cinders trace fill material, (10YR 2/1) black, loose, wet , no odor, (trace glass)	
12			Wet	6	FILL		NO RECOVERY	
13								
14								
15	3.6	0						TWA-B005-15.0
16		0	Wet	6	FILL		very fine SAND, little silt, (7.5YR 5/3) brown, loose, wet , no odor	
17			Moist	7	PT		90% PEAT (Meadow Mat), 5% silt 5% clay, (7.5YR 3/3) dark brown, firm, moist , no odor	TWA-B005-17.0
18								TWA-B005-18.0
19			Moist	7	PT		NO RECOVERY	
20	4.2	0						TWA-B005-20.0
21		0	Moist	7	PT		90% PEAT (Meadow Mat) PEAT, 5% clay 5% silt, (7.5YR 3/3) dark brown, firm, moist , no odor	
22			Moist	9	SM		SILT, little very fine sand trace clay, (10YR 5/2) grayish brown, soft, moist , no odor	TWA-B005-22.0
23								
24		0						
25			Moist Moist	8 8	SP SP		very fine SAND, (10YR 6/1) gray, very dense, moist , no odor	
26							NO RECOVERY	
27							End of boring at 25 ft.	
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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Boring ID: TWA-6

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610588.7
Date Started Drilling: 4/4/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682453.4
Date Finished Drilling: 4/4/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.0 ft
Physical Location: Indoors		Elevation: 15.2 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.5	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry, no staining, no rebar	TWA-B006-1.0
2		0	Moist	3	FILL		fine to medium SAND, some concrete and cinders, (10YR 4/2) dark grayish brown, loose, moist, no odor	
3								TWA-B006-3.0
4			Moist	3	FILL		NO RECOVERY	
5	0.4	0						TWA-B006-5.0
6			Moist	3	FILL		fine SAND, little angular gravel, (7.5YR 5/4) brown, loose, moist, no odor	
7			Moist	3	FILL		NO RECOVERY	
8								
9								
10	0							
11			Moist	3	FILL		NO RECOVERY, for this interval	
12								
13								
14								
15	2.4	0						TWA-B006-15.0
16		0	Wet	6	FILL		ASH, and cinders, (5YR 4/1) dark gray, loose, wet, no odor	
17			Wet	7	PT		80% PEAT (Meadow Mat), 10% silt 5% clay trace fine sand, (5YR 3/2) dark reddish brown, medium dense, wet, no odor	TWA-B006-17.0
18			Wet	7	PT		NO RECOVERY	
19								
20	4	0						TWA-B006-20.0
21			Wet	7	PT		80% PEAT (Meadow Mat), 10% silt 5% clay trace fine sand, (5YR 3/2) dark reddish brown, medium dense, wet, no odor	
22		0						TWA-B006-22.0
23			Wet	8	SP		very fine SAND, (5YR 4/1) dark gray, loose, wet, no odor	
24								
25			Wet		SP		NO RECOVERY	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/5/12.



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Boring ID: TWA-7

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610548.0
Date Started Drilling: 4/4/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682332.6
Date Finished Drilling: 4/4/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.0 ft
Physical Location: Indoors		Elevation: 15.6 ft NAVD88

(Note bgs = below ground surface)

PPG - GINT STD US LAB.GDT - 5/7/12 11:13 - C:\DOCUMENTS AND SETTINGS\STANCHAK\MY DOCUMENTS\PPG 10 WEST BORINGS.GPJ

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry , no staining, no rebar.	TWA-B007-1.0
2		0	Dry	3	FILL		fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 5/3) brown, loose, dry , no odor, (brick, cinders, concrete)	
3								TWA-B007-3.0
4			Dry	3	FILL		NO RECOVERY	
5	1	0						TWA-B007-5.0
6			Wet	3	FILL		fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 5/3) brown, loose, wet , no odor, (brick, cinders, concrete)	
7			Wet	3	FILL		NO RECOVERY	
8								
9								
10	2.8	0						TWA-B007-10.0
11			Wet	3	FILL		very fine SAND, and silt little ceramics, (7.5YR 3/2) dark brown, loose, wet , no odor, (little cinders)	
12								TWA-B007-12.0
13		0						
14			Wet	3	FILL		NO RECOVERY	
15	4	0						TWA-B007-15.0
16		0	Wet	3	FILL		very fine SAND, and silt little ceramics, (7.5YR 3/2) dark brown, loose, wet , no odor, (little cinders)	
17			Moist	7	OL		SILT, trace clay trace organics, (10YR 2/1) black, medium stiff, moist , no odor	TWA-B007-17.0
18								
19			Moist	7	OL		NO RECOVERY	TWA-B007-19.0
20	3.8	0	Moist	7	OL			TWA-B007-20.0
21		0	Moist	7	OL		SILT, trace clay trace organics, (10YR 2/1) black, medium stiff, moist , no odor	
22			Moist	7	OH		silty CLAY, some phragmite roots, (7.5YR 4/1) dark gray, stiff, moist , no odor	
23		0						TWA-B007-23.0
24			Moist	8	SM		very fine SAND, little silt trace shells, (7.5YR 4/1) dark gray, medium dense, moist , no odor	TWA-B007-23.0X
25			Moist	8	SM		NO RECOVERY	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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







Boring ID: TWA-8

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610611.1
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682653.5
Date Finished Drilling: 4/5/2012	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.8 ft
Physical Location: Indoors		Elevation: 15.5 ft NAVD88

(Note bgs = below ground surface)

PPG - GINT STD US LAB.GDT - 5/7/12 11:13 - C:\DOCUMENTS AND SETTINGS\STANCHAK\MY DOCUMENTS\PPG 10 WEST BORINGS.GPJ

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.5	0	Dry	1	Fill		White Concrete, no staining, dense.	TWA-B008-1.0
2		0	Moist	3	Fill		Brown (7.5YR 4/2) fine SAND and FILL (coal, brick, concrete, ash), little Silt, dense, moist. No odor.	
3		0						TWA-B008-3.0
4			Moist	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, moist, loose. No odor.	
5	2.7	0	Moist	6	Fill		No Recovery	TWA-B008-5.0
6		0	Moist	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, moist, loose. No odor.	
7		0	Wet	3	Fill		Reddish Brown (5YR 5/3) fine SAND, some Silt, trace treated wood, wet, loose. No odor.	TWA-B008-7.0
8			Wet	3	Fill			
9							No Recovery	
10	1.8	0						TWA-B008-10.0
11		0	Wet	6	Fill		Grayish Brown (10YR 5/2) ASH and CINDERS, moist, loose. No odor.	
12			Wet	6	Fill		No Recovery	
13								
14								
15	3	0						TWA-B008-15.0
16		0	Wet	3	Fill		Reddish Brown (5YR 5/3) fine SAND, some Silt, trace interbedded organic Clay, trace treated wood, wet, loose. No odor.	
17		0	Moist	7	PT		Dark Reddish Brown (7.5YR 3/3) PEAT (Meadow mat), high organics, trace Silty Clay, moist, semi-cohesive, firm. Sulfur odor.	TWA-B008-17.0
18			Moist	7	PT		No Recovery	
19								
20	4.5	0						TWA-B008-20.0
21		0	Wet	8	SM		Dark Grayish Brown (10YR 4/2) SILT and very fine SAND, wet, soft. No odor.	
22		0						TWA-B008-22.0
23		0	Moist	9	ML		Gray (Gley I 6/0) SILT, little fine angular Gravel, very dense, moist. No odor.	
24								
25			Moist	9	ML		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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Boring ID: TWA-9/ICO-13

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610568.1
Date Started Drilling: 4/5/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682573.1
Date Finished Drilling: 4/5/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.0 ft
Physical Location: Indoors		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.3	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry, no staining, no rebar.	ICO-B013-1.0
2		0	Dry	3	FILL		fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 4/3) brown, loose, dry, (Brick, coal, concrete, cinders)	
3								ICO-B013-3.0
4			Dry	3	FILL		NO RECOVERY	
5	1.9	0						ICO-B013-5.0
6		0	Dry	3	FILL		fine to medium SAND, and fill material, (7.5YR 2.5/1) black (10YR 4/3) brown, loose, dry, (Brick, coal, concrete, cinders)	ICO-B013-6.0
7			Wet	6	FILL		ASH, and cinders, (10YR 2/1) black, loose, wet, no odor	
8			Wet	6	FILL		NO RECOVERY	
9								
10	2.3	0						ICO-B013-10.0
11			Moist	3	FILL		very fine SAND, little silt trace brick, (7.5YR 4/3) brown, medium dense, moist, no odor, trace organics.	
12								ICO-B013-12.0
13			Moist	3	FILL		NO RECOVERY	
14								
15	4	0						ICO-B013-15.0
16		0	Moist	3	FILL		very fine SAND, little silt trace organics, (7.5YR 4/3) brown, medium dense, moist, no odor	
17			Moist	7	OL		organic SILT, little organics and roots, (10YR 2/1) black, stiff, moist, no odor	ICO-B013-17.0
18								
19								ICO-B013-19.0
20	4	0	Moist	7	OL		NO RECOVERY	
21			Moist	9	ML		SILT, little interbedded clay, (10YR 5/2) grayish brown, medium dense, moist, no odor	ICO-B013-21.0
22		0						
23		0	Moist	8	SM		very fine SAND, trace silt, (10YR 5/1) gray, dense, moist, no odor	ICO-B013-23.0
24			Moist	10	SM		very fine to coarse SAND, and interbedded silt and roots, (10R 4/4) weak red, (7.5YR 4/3) brown (10YR 5/1) gray, dense, moist, no odor, trace organics.	
25			Moist	10	SM		NO RECOVERY	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/6/12.



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Boring ID: TWA-10

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610525.1
Date Started Drilling: 4/4/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682491.7
Date Finished Drilling: 4/4/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.0 ft
Physical Location: Indoors		Elevation: 15.1 ft NAVD88

(Note bgs = below ground surface)

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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	3.7	0	Dry	1	CONCRETE		CONCRETE, (N 8') white, dry , no staining, no rebar	TWA-B010-1.0
2		0	Moist	3	FILL		Construction DEBRIS (brick, concrete), some silt little medium sand and coal, (7.5YR 4/3) brown, loose, moist , no odor	
3								TWA-B010-3.0
4								
5	2	0	Moist	3	FILL		NO RECOVERY	TWA-B010-5.0
6		0	Moist	3	FILL		fine SAND, little silt, (7.5YR 4/3) brown, medium dense, moist , no odor	
7			Wet	6	FILL		fine sandy CINDERS, some ash little coal, (10YR 2/1) black, loose, wet , no odor	TWA-B010-7.0
8			Wet	6	FILL		NO RECOVERY	
9								
10	2.9	0						TWA-B010-10.0
11		0	Moist	6	FILL		fine sandy CINDERS, some ash little coal, (10YR 2/1) black, loose, wet , no odor	
12			Moist	3	FILL		CLAY, some silt graded to fine sand, (7.5YR 4/2) brown, soft, moist , no odor	TWA-B010-12.0
13								
14			Moist	3	FILL		NO RECOVERY	
15	3.6	0						TWA-B010-15.0
16		0	Moist	3	FILL		CLAY, some silt graded to fine sand, (7.5YR 4/2) brown, soft, moist , no odor	
17			Moist	7	OH		organic silty CLAY, some phragmite roots, (7.5YR 3/2) dark brown, stiff, moist , moderate sulfur odor	TWA-B010-17.0
18								TWA-B010-18.0
19								
20	4	0	Moist	7	OH		NO RECOVERY	TWA-B010-20.0
21		0	Moist	7	OL		organic SILT, trace organics interbedded with little fine sand, (7.5YR 3/2) dark brown, soft, moist , no odor	
22		0	Moist	8	SM		very fine SAND, some silt, (7.5YR 5/1) gray, soft, moist , no odor	TWA-B010-22.0
23			Wet	10	SM		fine SAND, little rounded medium gravel trace silt, (2.5YR 4/4) reddish brown, dense, wet , no odor	
24								
25			Wet	10	SM		NO RECOVERY	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/5/12.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone















Boring ID: TWA-11/ICO-16

Page: 1

Project Name: PPG 10 West	Drilling Company: SGS	
Project Number: 60154801.0004.2	Drilling Method: GeoProbe	Coordinates (NJSPNAD83) x: 610487.6
Date Started Drilling: 4/4/2012	Rig Type: 6610DT	Coordinates (NJSPNAD83) y: 682414.3
Date Finished Drilling: 4/4/2012	Core Size: 1.5 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 10.0 ft
Physical Location: Indoors		Elevation: 15.6 ft NAVD88

(Note bgs = below ground surface)

PPG - GINT STD US LAB.GDT - 5/7/12 11:13 - C:\DOCUMENTS AND SETTINGS\STANCHAK\MY EQUIS WORK\PPG_JERSEY\GARFIELD AVENUE GROUP OF SITES\10 WEST BORINGS.GPJ

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1	2.6	0	Dry	1	CONCRETE		CONCRETE, (N 8/) white, dry , no staining, no rebar	ICO-16-1.0
2		0	Dry to Moist	3	FILL		SILT, little very fine sand and fine gravel, (10YR 4/3) brown, dense, dry to moist , no odor, angular, trace Red-Brown fine Sand	
3								ICO-16-3.0
4			Moist	3	FILL		NO RECOVERY	
5	2.5	0						ICO-16-5.0
6			Moist	3	FILL		SILT, little very fine sand and fine gravel, (10YR 4/3) brown, medium dense, moist , no odor, angular, trace Red-Brown fine Sand, trace ash and cinders	
7		0						ICO-16-7.0
8			Moist	3	FILL		SILT, some very fine sand trace coarse sand, (5YR 4/3) reddish brown, dense, moist , no odor	
9			Moist	3	FILL		NO RECOVERY	
10	3	0						
11			Wet to Moist	3	FILL		SILT, and fine to coarse sand, (5YR 4/3) reddish brown, loose, wet to moist , no odor, moist at 11 ft	ICO-16-11.0
12								
13								ICO-16-13.0
14			Moist	3	FILL		NO RECOVERY	
15	4	0						ICO-16-15.0
16			Wet	3	FILL		SILT, and very fine sand trace coarse sand, (10YR 4/3) brown, soft, wet , no odor	
17		0						ICO-16-17.0
18			Moist	7	OL		organic SILT, trace phragmite roots, (10YR 2/1) black, soft, moist , no odor	
19								ICO-16-19.0
20	3.8	0	Moist	7	OL		NO RECOVERY	
21			Moist	7	OH		organic CLAY, trace phragmite roots, (10YR 2/1) black, stiff, moist , no odor	ICO-16-21.0
22		0						
23			Wet	10	SM		fine SAND, little medium to coarse sand trace silt, (2.5YR 4/4) reddish brown, loose, wet , no odor	ICO-16-23.0
24								ICO-16-23.0X
25			Wet	10	SM		NO RECOVERY	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location. Sampled on 4/5/12.