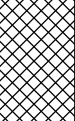
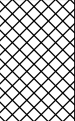
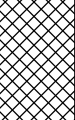

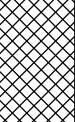



Appendix G

Boring Logs

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

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:



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Test Pit ID: 133-P3B-M46A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610610.294
Date Started Drilling: 4/17/2014 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682252.99
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	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	2	ASPHALT		ASPHALT	
2		0.0		3	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								
4								
5	5	0.0	moist	3	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.	
6			moist to wet	3	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
7								
8								
9	5							
10								
11		0.0	wet	3	FILL		CINDERS, with fine to medium gravel, some wood debris, (7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
12		0.0	wet	3	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
13	5	0.0	dry	9	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
14								
15								
16								
17	5	0.0	moist	9	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		0.0	moist	9	OL		UNDorg SILT, 90% organic silt, 10% organic fibers, (10YR 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
19								
20								

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: 135-AA38A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611094.5
Date Started Drilling: 8/31/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682278.6
Date Finished Drilling: 8/31/2015 11:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 55		Surface Elevation: 11.1 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	4	0.0		2	ASPHALT		ASPHALT, degraded ASPHALT, and subbase gravel (Trap Rock), (7.5YR 2.5/1) black, loose, no odor, no staining.	
2		0.0	slightly moist	3	FILL		fine to medium SAND, with cinders, some ash, little coal, medium to coarse gravel, trace wood fragments, (7.5YR 2.5/2) very dark brown, slightly moist, no odor, no staining.	135-AA38A-1.0-1.5
3								135-AA38A-3.0-3.5
4					NR		NO RECOVERY.	
5	5	0.0	moist	3	FILL		fine SAND, with silt, little fine gravel, cinders, dense, moist to wet, no odor, no staining, slight black staining, DTW @ 7.0'.	135-AA38A-5.0-5.5
6								135-AA38A-7.0-7.5
7		0.0	moist	3	FILL		fine SAND, with silt, little fine gravel, (7.5YR 3/4) dark brown, dense, moist, no odor, no staining.	135-AA38A-9.0-9.5
8								
9	5	0.0	wet	3	FILL		fine to medium SAND, with silt, little medium gravel, trace ash, cinders lens @ 13.0-13.5, (7.5YR 4/2) brown, wet to saturated, no odor, no staining.	135-AA38A-11.0-11.5
10								135-AA38A-13.0-13.5
11		0.0	moist	3	FILL		SILT, with fine sand, interbedded with fine to medium gravel, trace clay orange mottling, (7.5YR 4/2) brown, low plasticity soft, moist to saturated, no odor, no staining.	135-AA38A-15.0-15.5
12								135-AA38A-16.5-17.0
13	5	0.0	moist	3	FILL		SILT, and fine sand, interbedded with fine to medium gravel, trace clay, orange mottling, (7.5YR 4/2) brown, low plasticity soft, moist to saturated, no odor, no staining.	135-AA38A-17.0-17.5
14								
15		2.3	moist	7	PT		PEAT (degraded vegetated material), (70% organic fibers, 30% organic silt), (7.5YR 3/2) dark brown, stiff, moist, moderate organic odor, no staining. Soils consistent with MM.	
16		1.1	moist	9	OL		UNDorg SILT, (80% organic silt, 20% organic fibers, less fibrous with depth) (10YR 4/2) dark grayish brown, stiff, moist slight organic odor no staining. Soils consistent with UNDorg.	
17								
18								
19								

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

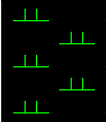
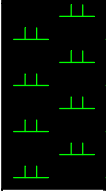
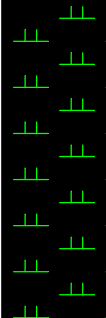
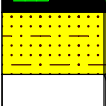
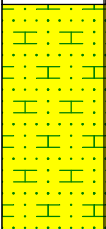
PPG - 2012-09 RA PPG LOGS, A.G.D.T. - 10/6/15 17:20

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B12		
		Site: Site 135					
Start Date: 12/12/2006		Project: Site Investigation			Page: 1 of 3		
		Coordinates: X-610828.5 Y-682027.5			Depth of Boring: 28.00		
End Date: 12/19/2006		Elevation: 9.8 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

0		CONCRETE: CONCRETE			
		FILL: Brown medium SAND and SILT, some fine to coarse Gravel.	0.0 ppm	135-B12A (0.7-1.2)	Cr+6, TAL Metals
			0.0 ppm		
		CONCRETE: Reinforced CONCRETE		135-B12B (1.5-2.0)	Cr+6, TAL Metals
2		FILL: Brown medium SAND, some fine to coarse Gravel, little glass fragements.			
		FILL: Grayish Brown SILT, some fine to medium Gravel.	0.0 ppm	135-B12C (2.9-3.4)	Cr+6, TAL Metals
4		FILL: Brown yellow ASH and fine to coarse Gravel, some ceramics pieces and woody organics.	0.0 ppm	135-B12D (3.4-4.2)	Cr+6, TAL Metals
		FILL: Black SILT, trace CLAY and fine Gravel, moist. No odor.		135-B12E (4.5-5.0)	Cr+6, TAL Metals
		FILL: Pale Red (2.5YR 6/2) and Gray SILT and fine angular Gravel, Fill materials (ceramics, glass), wet. No odor.			
6		NR: No Recovery			
8		FILL: Reddish Brown (5YR 4/3) SILT, little Clay, trace fine rounded Gravel, Sandstone rock at 9.2-9.5 feet, moist. No odor.	0.0 ppm	135-B12EG (8.5-9.0)	Cr+6, TAL Metals
10		NR: No Recovery			

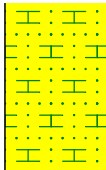
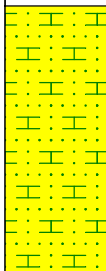
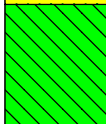
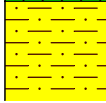
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR AECOM		Client: PPG Industries		BORING ID: 135-B12		
		Site: Site 135				
Start Date: 12/12/2006		Project: Site Investigation		Page: 2 of 3		
		Coordinates: X-610828.5 Y-682027.5		Depth of Boring: 28.00		
End Date: 12/19/2006		Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID	Sample ID	Sample Parameters


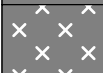





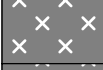

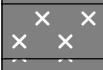
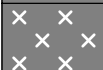

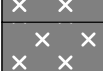


12		PEAT: PEAT (Meadow Mat), moist, firm. Sulfur odor.	2.0 ppm	135-B12F (12.0-13.0)	Cr+6, TAL Metals
		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	7.8 ppm		
14			4.2 ppm		
		NR: No Recovery			
16		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	5.2 ppm	135-B12G (16.0-16.5)	Cr+6, TAL Metals
			1.8 ppm		
			0.2 ppm		
18		SAND AND SILT: Greenish Gray (5GY 5/1) SILT and very fine SAND, trace Organics, moist. Sulfur odor.		135-B12H (18.7-19.2)	Cr+6, TAL Metals
		NR: No Recovery			
		SILT AND CLAY: Dark Gray (5GY 4/1) SILTY CLAY, some very fine Sand, wet, plastic properties. No odor.	0.0 ppm		
20			0.0 ppm		
			0.0 ppm		

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 135-B12	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 3 of 3	
		Coordinates: X-610828.5 Y-682027.5		Depth of Boring: 28.00	
End Date: 12/19/2006		Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

22			0.0 ppm		
		NR: No Recovery		135-B12I (22.5-23.0)	Cr+6, TAL Metals
24		SILT AND CLAY: Dark Gray (5GY 4/1) SILTY CLAY, some very fine Sand, wet, plastic properties. No odor.	0.0 ppm		
			0.1 ppm		
26		CLAY: Dark Gray (5Y 4/1) CLAY, trace very fine Sand, moist, firm. No odor.	0.1 ppm	135-B12J (26.5-27.0)	Cr+6, TAL Metals
		SILT: Dark Reddish Brown (5YR 3/4) SILT, little very fine Sand, trace Clay, moist, firm. No odor.			
28	NULL: End of Boring at 28 ft.				

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

0		FILL: Black Topsoil, some roots, little fine Gravel.	0.2 ppm	135-B13A (0.0-0.5)	Cr+6, TAL Metals
		FILL: Brown coarse SAND, some fine Gravel.			
				135-B13B (1.0-1.5)	Cr+6, TAL Metals
2					
					
					
					
					
4		FILL: Dark Grayish Red ASH and SILT, some fine to coarse Gravel, little ceramic pieces, moist.	0.0 ppm	135-B13C (3.7-4.1)	Cr+6, TAL Metals
		FILL: Reddish Gray (5YR 5/2) SILT and fine angular Gravel, Fill materials (concrete, ceramics, shells), wet. No odor.	0.1 ppm	135-B13D (4.2-5.3)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/3) SILT, little coarse Sand, moist. No odor.	0.2 ppm		
		FILL: Sandstone (cobble)			
6		FILL: Brown (7.5YR 4/3) SILT, little coarse Sand and Clay, slight dark green staining, wet. No odor.			
		NR: No Recovery			
		NOTE: TEST PIT WAS CONDUCTED ON 9/14/2018 (135-B13-TP) AT THIS LOCATION TO INVESTIGATE THE GREEN STAINING OBSERVED AT THIS LOCATION. THE GREEN STAINING WAS DETERMINED TO BE MOTTLED SILTS/SAND AND NOT CCPW AS CONFIRMED BY WESTON WHO WAS ON SIGHT DURING TEST-PITTING.			
8		FILL: Brown (7.5YR 4/3) SILT, little coarse Sand and Clay, slight dark green staining, wet. No odor.	0.0 ppm	135-B13E (8.5-9.5)	Cr+6, TAL Metals
		FILL: Brown (7.5YR 5/3) SILTY CLAY, some medium to coarse Sand, little fine rounded Gravel, wet, loose. No odor.	0.0 ppm	135-B13ED (8.5-9.5)	
					

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 135-B13	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 2 of 4	
		Coordinates: X-610895.3 Y-682090.1		Depth of Boring: 36.00	
End Date: 12/20/2006		Elevation: 9.9 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

10			0.0 ppm		
		NR: No Recovery			
12		FILL: Brown (7.5YR 5/3) SILTY CLAY, some medium to coarse Sand, little fine rounded Gravel, wet, loose. No odor.	0.0 ppm		
			0.0 ppm		
14		FILL: Dark Reddish Brown (5YR 3/4) SILTY CLAY, trace fine Gravel, moist, firm. No odor.	0.0 ppm	135-B13F (13.5-14.0)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 5/3) SILT, some fine to medium Sand, trace Clay, wet to moist, semi-firm. No odor.			
		NR: No Recovery			
16		FILL: Reddish Brown (5YR 4/4) SILTY CLAY, trace fine rounded Gravel, moist, firm. No odor.	0.0 ppm		
			0.0 ppm		
18		PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.8 ppm	135-B13G (17.6-18.1)	Cr+6, TAL Metals
		NR: No Recovery			

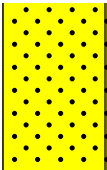
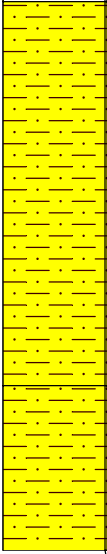
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B13		
		Site: Site 135					
Start Date: 12/12/2006		Project: Site Investigation			Page: 3 of 4		
		Coordinates: X-610895.3 Y-682090.1			Depth of Boring: 36.00		
End Date: 12/20/2006		Elevation: 9.9 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

20		PEAT: PEAT, organics, moist, firm. Sulfur odor.	18.7 ppm		
		PEAT: Very Dark Gray (5Y 3/1) organic CLAY, little organics, trace fine Sand interbedded, moist, firm. Sulfur odor.	16.0 ppm		
22			26.6 ppm	135-B13H (21.5-22.5)	MS/MSD, Cr+6, TAL Metals
			30.6 ppm		
24		NR: No Recovery			
		SILTY SAND: Very Dark Gray (Gley N3/0) SILTY very fine SAND, little Clay, wet, loose. Slight sulfur odor.	4.6 ppm	135-B13I (24.0-24.5)	Cr+6, TAL Metals
26			2.5 ppm		
		SILT AND CLAY: Dark Gray (7.5YR 4/1) SILTY CLAY, moist, firm. Slight sulfur odor.	26.2 ppm		
28		SANDY SILT: Grayish Brown (10YR 5/2) SILT, some very fine Sand, little interbedded Clay, moist, firm. No odor.	2.3 ppm		
		SILT AND CLAY: Grayish Brown (10YR 5/2) SILTY CLAY, little interbedded medium to coarse Sand, moist, semi-firm. No odor.			
		NR: No Recovery	3.8 ppm	135-B13J (28.0-28.5)	Cr+6, TAL Metals
		SILT AND CLAY: Grayish Brown (10YR 5/2) SILTY CLAY, little interbedded medium to coarse Sand, moist, semi-firm. Sulfur odor.	0.0 ppm		
		CLAY: Gray (Gley N5/0) CLAY, firm. No odor.			

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

<div> <div>ENSR</div> <div>AECOM</div> </div>		Client: PPG Industries	<div> <div>BORING ID:</div> <div>135-B13</div> </div>		
		Site: Site 135			
<div> <div>Start Date:</div> <div>12/12/2006</div> </div>		Project: Site Investigation	Page: 4 of 4		
		Coordinates: X-610895.3 Y-682090.1	Depth of Boring: 36.00		
<div> <div>End Date:</div> <div>12/20/2006</div> </div>		Elevation: 9.9 ft NAVD88	Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

30		SAND: Weak Red (10R 4/4) fine to coarse SAND, little rounded Gravel, trace Silt, wet. No odor.	0.0 ppm		
		NR: No Recovery			
32		SILT: Weak Red (10R 4/4) fine SANDY SILT, wet, loose. No odor.	0.0 ppm	135-B13K (32.0-32.5)	Cr+6, TAL Metals
			0.0 ppm		
34			0.0 ppm		
		SILT: Weak Red (10R 4/4) SILT, moist, firm. No odor.	0.0 ppm		
36		NULL: End of Boring at 36 ft.			

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

TEST PIT FIELD LOG

Logged by: Laura Kinsey (AECOM)

PROJECT 135-B13-TP
DESCRIPTION
LOCATION

TEST PIT No. 1
FILE No.
DATE 9/14/2018

ENGINEER P. JENNINGS
ENTRIT

EXCAVATION EQUIPMENT

CONTRACTOR ENTRIT
OPERATOR JOE GURNS
MAKE CAT MODEL 336E
CAPACITY REACH

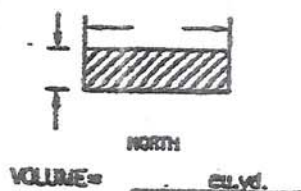
GROUND ELEV. 892.80 11.2
TIME STARTED 0920
TIME COMPLETED 0940

WEATHER 76/67°F CLOUDY

DEPTH	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT QTY. CLASS	REMARK No.
0'				
1'	FILL DBA	E		
2'		E		
3'		E		
4'		E		
5'		E		
6'	FILL FINE SAND ^{AND} SILT REDDISH BROWN WET NO ODOR NO VISIBLE CLPW	E		
7'		E		
8'	FILL FINE SAND ^{AND} SILT - MOTTLED, COLOR VARIED FROM RED/BROWN TO GREEN/GRAY. WET, NO ODOR NO VISUAL CLPW	E		
9'				
10'				
11'				
12'				
13'				
14'				

REMARKS: WESTON PRESENT TO OBSERVE THE ABSENCE OF CLPW.

TEST PIT PLAN



LEGEND: BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6"-18"	A
18"-36"	B
36" and Larger	C

PROPORTIONS USED

TRACE (TR.)	0-10%
LITTLE (L.)	10-20%
SOME (SO)	20-35%
AND	35-50%

ABBREVIATIONS

F-FINE
M-MEDIUM
C-COARSE
F/M-FINE TO MEDIUM
F/C-FINE TO COARSE
V-VERY
GR-GRAY
BN-BROWN
YEL-YELLOW

EXCAVATION EFFORT

E-EASY
M-MODERATE
D-DIFFICULT
GROUNDWATER


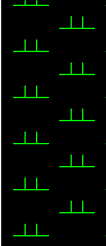

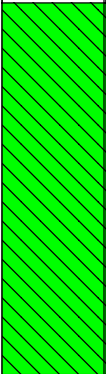


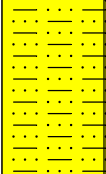
ELAPSED TIME TO READING G.W. (HRS.)
No Groundwater

ENSR AECOM		Client: PPG Industries		BORING ID: 135-B14	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 1 of 3	
		Coordinates: X-611058.0 Y-682231.8		Depth of Boring: 32.00	
End Date: 12/20/2006		Elevation: 10.5 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

0		CONCRETE: CONCRETE			
		FILL: Black Stained Brown coarse SAND and SILT, some fine to medium Gravel.	1.1 ppm	135-B14A (0.8-1.3)	Cr+6, TAL Metals
2		FILL: Brick fragments.	0.6 ppm	135-B14B (2.9-3.4)	Cr+6, TAL Metals
		FILL: Black-Gray coarse SAND, some fine to medium Gravel, little ceramic pieces.	0.0 ppm	135-B14C (3.4-3.8)	Cr+6, TAL Metals
4		FILL: Dark Gray (10YR 4/1) SILT and coarse SAND, Fill materials (ceramics, glass, ash, crushed rocks), slight olive green/marigold staining, moist. No odor.	0.0 ppm		
		FILL: Grayish Brown (10YR 5/2) SILTY CLAY, slight olive green/marigold staining, brick pieces, firm, moist. No odor.	0.1 ppm	135-B14D (4.6-5.0)	Cr+6, TAL Metals
6		NR: No Recovery			
8		FILL: Dark Reddish Gray (5YR 4/2) SILT, some medium to coarse Sand, trace Clay, wet, loose. No odor.	0.0 ppm	135-B14E (8.5-9.0)	Cr+6, TAL Metals
			0.0 ppm		
10		FILL: Reddish Brown (5YR 4/3) SILT and fine SAND interbedded, moist, firm. No odor.	0.1 ppm		
		NR: No Recovery			

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 135-B14	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 2 of 3	
		Coordinates: X-611058.0 Y-682231.8		Depth of Boring: 32.00	
End Date: 12/20/2006		Elevation: 10.5 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

12		FILL: Reddish Brown (5YR 4/3) SILTY CLAY, trace fine Sand and medium Gravel, moist to wet, semi-firm. No odor.	0.0 ppm		
			0.1 ppm	135-B14F (12.8-13.3)	Cr+6, TAL Metals
14		PEAT: PEAT, organics, moist, firm. Sulfur odor.	3.3 ppm		
16		NR: No Recovery			
18		CLAY: Very Dark Gray (5Y 3/1) organic CLAY, little organic PEAT, moist, firm. Sulfur odor.	2.9 ppm		
			6.8 ppm	135-B14G (17.0-17.5)	Cr+6, TAL Metals
20		NR: No Recovery			
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	22.4 ppm		
				135-B14H (20.4-20.9)	Cr+6, TAL Metals
		SANDY SILT: Gray (Gley N5/0) very fine SANDY SILT, some Clay, wet, loose. No odor.	2.8 ppm		

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

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B14		
		Site: Site 135					
Start Date: 12/12/2006		Project: Site Investigation			Page: 3 of 3		
		Coordinates: X-611058.0 Y-682231.8			Depth of Boring: 32.00		
End Date: 12/20/2006		Elevation: 10.5 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

22			2.8 ppm		
			1.3 ppm		
		SILTY SAND: Gray (Gley N5/0) SILTY fine to medium SAND, wet. No odor.			
24		NR: No Recovery	0.1 ppm		
		SANDY SILT: Gray (Gley N5/0) very fine SANDY SILT, some Clay, wet, loose. No odor.		135-B14I (24.5-25.0)	Cr+6, TAL Metals
			0.1 ppm		
26		SAND: Dark Gray (10YR 4/1) very fine to fine SAND, little SILT, moist to wet, semi-firm. No odor.	0.4 ppm		
			0.1 ppm		
28		NR: No Recovery	0.0 ppm		
		SAND: Weak Red (10R 4/2) medium to coarse SAND and fine rounded GRAVEL, some Silt, trace Clay, wet, loose. No odor.		135-B14J (28.5-29.0)	Cr+6, TAL Metals
		CLAY: Reddish Gray (10R 5/1) CLAY, trace fine Sand, moist, firm. No odor.	0.0 ppm		
30		SAND AND SILT: Weak Red (10R 4/2) coarse SAND and SILT, little Clay, wet, semi-firm. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/2) very fine to fine SAND, trace silt, wet. No odor.			
		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: 135-B15	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 1 of 3	
		Coordinates: X-611127.9 Y-682298.4		Depth of Boring: 32.00	
End Date: 12/22/2006		Elevation: 10.9 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
	x x x	FILL: Dark Brown coarse SAND and SILT, some fine to coarse Gravel, small cobbles.	0.0 ppm	135-B15A (0.6-1.1)	Cr+6, TAL Metals
2	x x x				
	x x x	FILL: Gray-Black ASH and SILT, some fine Gravel, little ceramic pieces.	1.8 ppm	135-B15B (2.2-2.7)	Cr+6, TAL Metals
	x x x				
4	x x x	FILL: Black SILT, some fine Gravel, little debris. Slight petro odor.	3.2 ppm	135-B15C (4.2-4.5)	Cr+6, TAL Metals
	x x x	FILL: Dark Reddish Gray SILT, little coarse Sand and Clay, Fill material (stones, brick), wet, semi-firm to loose. No odor	0.0 ppm		
6		NR: No Recovery	0.0 ppm		
8	x x x	FILL: Brown (7.5YR 4/2) SILTY CLAY, little fine Sand, trace coarse Gravel, wet, semi-firm. No odor.	0.0 ppm	135-B15D (8.0-8.5)	MS/MSD, Cr+6, TAL Metals
	x x x		0.0 ppm		
10	x x x	FILL: Brown (7.5YR 4/2) SILT, little coarse Sand and medium angular Gravel, wet, loose. No odor.	0.0 ppm		
	x x x				
		NR: No Recovery			

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

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B15		
		Site: Site 135					
Start Date: 12/12/2006		Project: Site Investigation			Page: 2 of 3		
		Coordinates: X-611127.9 Y-682298.4			Depth of Boring: 32.00		
End Date: 12/22/2006		Elevation: 10.9 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

12		FILL: Brown (5YR 4/3) very fine SANDY SILT, little coarse Sand and medium angular Gravel, wet, loose. No odor.	0.0 ppm	135-B15E (12.0-12.5)	Cr+6, TAL Metals
			0.0 ppm		
14		PEAT: PEAT, organics, moist, firm. Sulfur odor.	4.7 ppm	135-B15F (13.7-14.2)	Cr+6, TAL Metals
16		CLAY: Very Dark Gray (5Y 3/1) organic CLAY, little organics, moist, firm. Slight sulfur odor.	5.8 ppm		
			5.6 ppm		
			32.3 ppm	135-B15G (17.5-18.0)	Cr+6, TAL Metals
18		NR: No Recovery	4.3 ppm		
20		CLAY: Very Dark Gray (5Y 3/1) organic CLAY, little organics, moist, firm. Slight sulfur odor.	11.4 ppm		
			16.3 ppm	135-B15H (21.5-22.0)	Cr+6, TAL Metals

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

ENSR AECOM		Client: PPG Industries		BORING ID: 135-B15	
		Site: Site 135			
Start Date: 12/12/2006		Project: Site Investigation		Page: 3 of 3	
		Coordinates: X-611127.9 Y-682298.4		Depth of Boring: 32.00	
End Date: 12/22/2006		Elevation: 10.9 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

22			12.8 ppm		
		SANDY SILT: Gray (2.5Y 5/1) very fine SANDY SILT, moist, firm. Slight sulfur odor.		135-B15I (23.0-23.5)	Cr+6, TAL Metals
24		NR: No Recovery	1.6 ppm		
		SAND: Very Dark Gray (5Y 3/1) fine to medium SAND, little silt, wet. Slight sulfur odor.			
		SILTY SAND: Very Dark Gray (5Y 3/1) SILTY fine to medium SAND, little silt, wet, loose. Slight sulfur odor.	2.6 ppm		
26			0.2 ppm		
			0.0 ppm	135-B15J (27.0-27.5)	Cr+6, TAL Metals
28		SILT: Dark Brown (10YR 3/3) organic SILT, organics-roots heavily, moist, semi-firm. Sulfur odor.	0.0 ppm		
		CLAY AND SAND: Dark Gray (2.5Y 4/1) SANDY CLAY, moist, firm. No odor.	0.0 ppm		
		CLAY AND SAND: Dark Gray (2.5Y 4/1) SANDY CLAY, moist, firm. No odor.	0.0 ppm		
30		SAND: Weak Red (10YR 4/3) fine to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm	135-B15J (31.0-31.5)	Cr+6, TAL Metals
32		NULL: End of Boring at 32 ft.	0.0 ppm		

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

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B16		
		Site: Site 135					
Start Date: 12/13/2006		Project: Site Investigation			Page: 1 of 3		
		Coordinates: X-611271.1 Y-682434.4			Depth of Boring: 32.00		
End Date: 12/22/2006		Elevation: 9.9 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
		FILL: Gray coarse GRAVEL	0.0 ppm	135-B16A (0.7-1.2)	Cr+6, TAL Metals
		FILL: Dark Gray SILT and ASH, some fine Gravel, little brick fragments.			
2		FILL: Gray Brick and Cobbles.	0.0 ppm	135-B16B (2.0-2.4)	MS/MSD, Cr+6, TAL Metals
		FILL: Black SILT, some coarse Sand, little fine Gravel and brick fragments.			
4		FILL: Dark Gray SILT, some Clayey fine Gravel, little woody organics. Slight petroleum odor.	2.4 ppm	135-B16C (4.2-4.6)	Cr+6, TAL Metals
		FILL: Very Dark Grayish Brown (10YR 3/2) SILTY CLAY, trace coarse Sand, moist, semi-firm. Rubber odor.	0.0 ppm		
6		FILL: Reddish Brown (10YR 4/3) SILT, some medium to coarse Sand, trace Clay, wet, loose. Rubber odor.	0.0 ppm		
		NR: No Recovery			
8		FILL: Reddish Brown (2.5YR 4/3) SILTY CLAY, trace fine rounded Gravel, moist, firm. No odor.	0.0 ppm	135-B16D (8.0-8.5)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 4/3) SANDY SILT, little Clay and fine angular Gravel, wet, loose. No odor.	0.0 ppm		
10		NR: No Recovery			

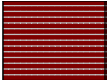







NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B16		
		Site: Site 135					
Start Date: 12/13/2006		Project: Site Investigation			Page: 3 of 3		
		Coordinates: X-611271.1 Y-682434.4			Depth of Boring: 32.00		
End Date: 12/22/2006		Elevation: 9.9 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

22			1.6 ppm		
		NR: No Recovery	1.5 ppm		
24		SILTY SAND: Gray (5Y 5/1) medium to coarse SILTY SAND, little to trace Clay, wet, loose. No odor.	0.5 ppm		
		SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, wet, loose. No odor.	0.6 ppm		
26		SILT: Dusky Red (2.5YR 3/2) SILT, trace very fine Sand and Clay, firm, moist, wood at 25.0-25.1 feet. No odor.	0.0 ppm	135-B16I (25.5-26.0)	Cr+6, TAL Metals
		NR: No Recovery	0.0 ppm		
28		SAND: Weak Read (10R 4/3) medium to coarse SAND, interbedded Gray CLAY at 29.2 to 30.2 feet, trace Silt, wet, loose. No odor.	0.0 ppm		
			0.0 ppm	135-B16J (29.0-29.5)	Cr+6, TAL Metals
30		SAND: Weak Read (10R 4/3) medium to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
32		NULL: End of Boring at 32 ft.	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	<div> <div>BORING ID:</div> <div>135-B17</div> </div>		
		Site: Site 135			
Start Date: 12/13/2006	Project: Site Investigation		Page: 1 of 3		
	Coordinates: X-611334.9 Y-682503.1		Depth of Boring: 28.00		
End Date: 12/21/2006	Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
	Drill Subcontractor: EB/TPI		Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

0		ASPHALT: ASPHALT			
		FILL: Gray medium COBBLES	0.4 ppm	135-B17A (0.9-1.4)	Cr+6, TAL Metals
		FILL: Light Brown CLAY and SILT, some fine Gravel, brick and glass fragments.			
2		FILL: Dark Brown corase SAND, some Silt and Clay, little fine Gravel, brick, glass and coal fragments.	0.0 ppm	135-B17B (2.3-2.8)	Cr+6, TAL Metals
		FILL: Very Dark Gray (10YR 3/1) SILT, little medium Sand and Clay, Fill material (Ash, Ceramics), wet, firm. No odor.	0.7 ppm	135-B17C (4.0-4.5)	Cr+6, TAL Metals
		FILL: Reddish Brown (2.5YR 4/3) SILT, little medium Sand, trace Clay and medium Gravel, wet, semi-firm. No odor.	0.2 ppm		
6		NR: No Recovery	0.3 ppm		
		FILL: Brown (7.5YR 5/2) and Gray mottled CLAY, little Silt, trace coarse Sand, moist, firm, slight yellow staining. No odor.	0.0 ppm	135-B17D (8.0-8.5)	Cr+6, TAL Metals
		FILL: Brown (7.5 YR 4/3) SILT, little coarse Sand, trace fine angular Gravel and Clay, wet, loose. No odor.	0.0 ppm		
10			0.3 ppm		

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 135-B17	
		Site: Site 135			
Start Date: 12/13/2006		Project: Site Investigation		Page: 2 of 3	
		Coordinates: X-611334.9 Y-682503.1		Depth of Boring: 28.00	
End Date: 12/21/2006		Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger	
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller	
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

12		FILL: Reddish Brown (5YR 4/3) fine to medium SAND and SILT, trace fine Gravel, wet, loose. No odor.	0.0 ppm	135-B17E (120-13.0)	Cr+6, TAL Metals
			0.0 ppm	135-B17ED (120-13.0)	
14		FILL: Reddish Brown (5YR 4/3) fine to medium SAND and SILT, trace fine Gravel, wet, loose. No odor.	0.0 ppm		
			0.0 ppm		
16		PEAT: PEAT, organics, moist, firm. Sulfur odor.	3.5 ppm	135-B17F (14.9-15.4)	Cr+6, TAL Metals
			1.1 ppm		
18		PEAT: PEAT, organics, moist, firm. Sulfur odor.	3.9 ppm		
			12.4 ppm		
20		SAND: Gray (5Y 5/1) very fine SAND, little Silt, wet, semi-firm. Sulfur odor.	14.8 ppm	135-B17G (18.8-19.3)	Cr+6, TAL Metals
			6.8 ppm		




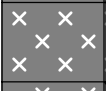

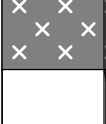

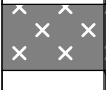
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

<div> <div>ENSR</div> <div>AECOM</div> </div>		Client: PPG Industries	BORING ID: 135-B17		
		Site: Site 133			
Start Date: 12/13/2006		Project: Site Investigation	Page: 3 of 3		
		Coordinates: X-611334.9 Y-682503.1	Depth of Boring: 28.00		
End Date: 12/21/2006		Elevation: 9.8 ft NAVD88	Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI	Driller: Heath Kneller		
Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters

<div> <div>22</div> <div>24</div> <div>26</div> <div>28</div> </div>		SILT, little to trace Clay, wet, loose. Sulfur odor.	33.0 ppm		
			10.0 ppm		
			4.0 ppm	135-B17H (23.0-23.5)	Cr+6, TAL Metals
		SILT: Gray (5Y 5/1) SILT, trace very fine Sand, moist, firm. No odor.			
		NR: No Recovery	4.8 ppm		
		CLAY AND SAND: Dark Gray (7.5YR 4/1) SANDY CLAY, little Silt, moist, firm. No odor.	4.0 ppm		
		SANDY SILT: Dark Gray (7.5YR 4/1) SANDY SILT, little fine rounded Gravel, wet, loose. No odor.			
		CLAY AND SAND: Dark Gray (7.5YR 4/1) CLAY, interbedded Dark Reddish Brown (2.5YR 3/4) fine Sand and fine pebbles, wet, firme. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/3) fine to medium SAND, trace Silt, wet, loose. No odor.		135-B17I (26.5-27.0)	Cr+6, TAL Metals
		NR: No Recovery			
		NULL: End of Boring at 28 ft.			

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

ENSR AECOM		Client: PPG Industries		BORING ID: 135-B18		
		Site: Site 135				
Start Date: 12/13/2006		Project: Site Investigation		Page: 1 of 3		
		Coordinates: X-611416 Y-682568		Depth of Boring: 28.00		
End Date: 12/21/2006		Elevation: 9.0 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID	Sample ID	Sample Parameters

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

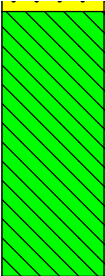
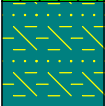
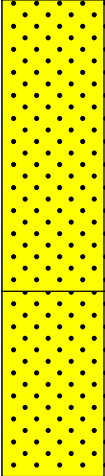
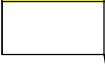
NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

ENSR AECOM		Client: PPG Industries			BORING ID: 135-B18		
		Site: Site 135					
Start Date: 12/13/2006		Project: Site Investigation			Page: 2 of 3		
		Coordinates: X-611416 Y-682568			Depth of Boring: 28.00		
End Date: 12/21/2006		Elevation: 9.0 ft NAVD88			Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI			Driller: Heath Kneller		
Depth (ft)	Lithology	Description			PID	Sample ID	Sample Parameters

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

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

<div>ENSR AECOM</div>		Client: PPG Industries		BORING ID: 135-B18		
		Site: Site 135				
Start Date: 12/13/2006		Project: Site Investigation		Page: 3 of 3		
		Coordinates: X-611416 Y-682568		Depth of Boring: 28.00		
End Date: 12/21/2006		Elevation: 9.0 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
		Drill Subcontractor: EB/TPI		Driller: Heath Kneller		
Depth (ft)	Lithology	Description		PID	Sample ID	Sample Parameters

22		wet, loose. Slight sulfur odor.	0.0 ppm	135-B18I (21.5-22.0)	Cr+6, TAL Metals
		CLAY: Gray (Gley N5/0) CLAY, little Silt, dry, firm. No odor.			
24		CLAY AND SAND: Gray (Gley N5/0) SANDY CLAY, wet, semi-firm. No odor.	0.0 ppm		
		NR: No Recovery			
		SAND: Gray (Gley N5/0) fine to coarse SAND, trace Silt, wet, loose. No odor.			
26			0.0 ppm	135-B18J (25.5-26.0)	Cr+6, TAL Metals
		SAND: Dark Reddish Gray (10R 4/1) fine to medium SAND, trace Silt, wet, loose. No odor.			
28		NR: No Recovery	0.0 ppm		
		NULL: End of Boring at 28 ft.			

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611161.4
Date Started Drilling: 2/25/2016 12:30:00 PM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682345.3
Date Finished Drilling: 2/25/2016 2:00:00 PM	Core Size: 4.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Narula		Surface 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	3.5	0.0	dry	ASPHALT		ASPHALT, (10YR 2/1) black, dry no odor, no staining.	
		0.0	dry	ASPHALT		Road sub-base, fine to medium SAND, some gravel, (10YR 4/3) brown, dry no odor no staining.	
2		0.0	dry	FILL		fine to medium SAND, little coal, trace brick and ash, (5YR 3/2) dark reddish brown, medium dense, dry no odor, no staining.	135-BB35AR-1.0-1.5
3							
4				NR		NO RECOVERY.	135-BB35AR-3.0-3.5
5	5	0.0	moist	FILL		fine to medium SAND, some ash, trace coal, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. Depth to Water @ 5.5 ft bgs.	135-BB35AR-5.0-5.5
6		0.0	wet	FILL		SILT, some gravel, trace fine sand, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-7.0-7.5
7							
8							
9							135-BB35AR-9.0-9.5
10							
11	5	0.0	saturated	FILL		SILT, little fine sand, trace wood, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-11.0-11.5
12							
13							135-BB35AR-13.0-13.5
14							135-BB35AR-14.0-14.5
15							135-BB35AR-14.5-15.0
16	5	0.0	dry	PT		PEAT (70% Organic fibers, 30% organic silt), (5YR 4/2) dark reddish gray, soft to medium stiff, dry, no odor, no staining. Soils consistnet with MM	135-BB35AR-15.0-15.5
17		0.0	moist	OL		UNDorg, (80% organic silt, 20% organic fibers), (10YR 4/2) dark grayish brown, moist no odor no staining. Soils consistent with UNDorg.	135-BB35AR-15.5-16.0
18							
19							
20							

PPG - 2012-09 RA PPG LOGS_A.GDT - 4/18/16 08:23

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



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: 135-BB36A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611148.9
Date Started Drilling: 2/25/2016 11:00:00 AM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682318
Date Finished Drilling: 2/25/2016 12:20:00 PM	Core Size: 4.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Narula		Surface 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	4	0.0	dry	ASPHALT		ASPAHLT, (10YR 2/1) black, dry no odor no staining.	
2		0.0	dry	ASPHALT		Road sub-base, fine to coarse SAND, some gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	135-BB36A-1.5-2.0
3		0.0	dry	FILL		ASH, trace brick, (7.5YR 2.5/1) black, dense, dry, no odor, no staining.	
4		0.0	dry	FILL		fine to medium SAND, little gravel, trace wood debris, (10YR 5/2) grayish brown, dense, dry, no odor, no staining.	135-BB36A-3.5-4.0
5				NR		ASH, some wood, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	
6	3.5	0.0	dry	FILL		NO RECOVERY.	
7		0.0	wet	FILL		ASH, trace fill debris and coal fragments, (7.5YR 2.5/1) black, dry, no odor, no staining.	135-BB36A-5.5-6.0
8						fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, Depth to Water 5.5 ft bgs.	135-BB36A-7.5-8.0
9				NR		NO RECOVERY.	
10	4.5	0.0	wet	FILL			135-BB36A-9.5-10.0
11						Silt, some gravel, little fine sand, (5YR 4/3) reddish brown, wet, no odor, no staining.	
12							135-BB36A-11.5-12.0
13		0.0	dry	FILL		fine to medium SAND, trace ash, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	135-BB36A-13.5-14.0
14		0.5	dry	PT		PEAT (80% organic fibers, 20% organic silt), (5YR 3/4) dark reddish brown, stiff, dry slight organic odor no staining. Soils consistent with MM	135-BB36A-14.0-14.5
15	5			NR		NO RECOVERY.	
16		0.5	dry	PT		PEAT (80% organic fibers, 20% organic silt), (5YR 3/3) dark reddish brown, stiff, dry slight organic odor no staining. Soils consistent with MM	
17		0.0	dry	OL		UNDorg (80% organic silt, 20% organic fibers), (10YR 5/2) grayish brown, medium stiff, dry no odor no staining. Soils consistent with UNDorg	
18							
19							
20							

PPG - 2012-09 RA PPG LOGS_A.GDT - 4/18/16 08:23

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



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Boring ID: 135-CC32A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611238.7
Date Started Drilling: 9/1/2015 8:42:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682416.7
Date Finished Drilling: 9/1/2015 9:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - Bld 77		Surface Elevation: 10.0 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	5	0.0		2	ASPHALT		ASPHALT.	
		0.0		2	ASPHALT		degraded ASPHALT.	
		0.0		1	CONCRETE		crushed CONCRETE.	
		2.1	moist	3	FILL		fine to medium SAND, with cinders, some coal, (7.5YR 2.5/1) black, moist, slight hydrocarbon odor, iron oxide and hydrocarbon staining.	
2	5							135-CC32A-1.0-1.5
3								135-CC32A-2.0-2.5
4		58.3	moist	3	FILL		fine to medium SAND, and fine to medium gravel, some cinders, little concrete, moist, loose, moderate petroleum odor, hydrocarbon staining.	135-CC32A-4.0-4.5
5	4	0.0	moist	3	FILL		SILT, and fine sand, little fine to medium gravel, trace coal fragments, cinders, (7.5YR 4/2) brown, soft, moist, no odor, no staining.	135-CC32A-6.0-6.5
6		0.0	wet	3	FILL		SILT, and fine to medium sand, trace fine to medium gravel, (2.5YR 5/3) reddish brown, soft, wet to saturated, no odor, no staining, DTW @ 6.4'.	
7								135-CC32A-8.0-8.5
8								
9					NR		NO RECOVERY.	
10	5	0.0	wet	3	FILL		SILT, with fine to medium sand, little fine to medium gravel, (2.5YR 5/3) reddish brown, soft, wet, no odor, no staining.	135-CC32A-10.0-10.5
11								135-CC32A-12.0-12.5
12								
13								135-CC32A-14.0-14.5
14	5	0.0	saturated	3	FILL		fine to medium SAND, and silt, little fine to medium gravel, (7.5YR 4/3) brown, loose, saturated, no odor, no staining.	135-CC32A-15.5-16.0
15		3.2	moist	7	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/2) dark brown, stiff, moist moderate organic odor. Soils consistent with MM.	135-CC32A-16.0-16.5
16		1.6	moist	9	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (7.5YR 3/3) dark brown, soft, moist slight organic odor no staining. Soils consistent with UNDorg.	
17								
18								
19								

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

PPG - 2012-09 RA PPG LOGS - A.GDT - 9/28/15 11:40

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611283
Date Started Drilling: 9/1/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682452.5
Date Finished Drilling: 9/1/2015 10:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 9.0
Physical Location: Former Narula Property - Bld 77 (Street)		Surface Elevation: 10.2 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	5	0.0		2	ASPHALT		ASPHALT	
		0.0		3	FILL		Subbase Gravel(Trap Rock).	135-DD30A-0.5-1.0
		0.0	slightly moist	3	FILL		fine to medium SAND,some cinders,coal fragments,metal,slag,asphalt fragments,little coarse gravel,(7.5YR 2.5/1) black,slightly moist,no odor,no staining.	
2	5	48.3	slightly moist	3	FILL		fine to medium SAND,and cinders,some metal slag,coal fragments,trace wood fragments (creosote odor and staining @ 4.7-5.0), (7.5YR 2.5/1) black, loose, slightly moist, iron oxide staining.	135-DD30A-2.5-3.0
3								
4								
5	4							135-DD30A-4.5-5.0
6		0.0	moist	3	FILL		fine to medium SAND,and silt,little fine to coarse gravel,trace fill material,(7.5YR 3/2) dark brown,moist,no odor, slight black staining.	
7								135-DD30A-6.5-7.0
8	4							
9		0.0	wet	3	FILL		SILT, and fine sand,little fine to coarse gravel,orange mottling, (7.5YR 4/2) brown, soft, wet, DTW @ 9.0.	135-DD30A-8.5-9.0
10					NR		NO RECOVERY.	
11	5							
12		0.0	wet	3	FILL		SILT, and fine to medium sand,little fine to medium gravel,(7.5YR 4/2) brown,wet,no odor, no staining.	135-DD30A-10.5-11.0
13								135-DD30A-12.5-13.0
14	5							135-DD30A-14.5-15.0
15		0.0	wet	3	FILL		SILT, and fine to medium sand,little fine to medium gravel,(7.5YR 4/2) brown,wet,no odor,no staining.	135-DD30A-15.4-15.9
16		3.1	moist	7	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic),(7.5YR 3/4) dark brown,moist,moderate organic odor,no staining. Soils consistent with MM.	135-DD30A-15.9-16.4
17	5							
18								
19		1.8	moist	9	OL		UNDorg SILT, (90% organic silt, 10% organic fibers, less fibrous with depth), moist,slight organic odor,no staining. Soils consistent with UNDorg.	

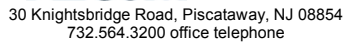
Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611350.27
Date Started Drilling: 9/1/2015 10:55:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682519.32
Date Finished Drilling: 9/1/2015 11:35:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 99 (Street)		Surface Elevation: 9.7 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 ID
		0.0		2	ASPHALT		ASPHALT.	
1		0.0		3	FILL		Subbase Gravel (Trap Rock).	
2	5	0.0		3	FILL		CINDERS, and ash, some coal fragments, metal slag, (brown silt lens @ 3.8-4.1), (7.5YR 3/1) very dark gray, slightly moist, loose, no odor, black staining.	135-EE27A-1.2-1.7
3								135-EE27A-2.0-2.5
4								135-EE27A-4.0-4.5
5		1.5	moist	3	FILL		fine to medium sand, with silt, some cinders, little ash, fine to medium gravel, (7.5YR 3/4) dark brown, moist, loose, no odor, slight black staining.	
6	4	0.0	wet	3	FILL		SILT, and fine sand, little fine to coarse gravel, (2.5YR 4/4) reddish brown, soft, wet, no odor, no staining, DTW @ 7.0'.	135-EE27A-6.0-6.5
7								135-EE27A-8.0-8.5
8					NR		NO RECOVERY.	
9								
10		0.0	wet	3	FILL		SILT, and fine sand, little fine to coarse gravel, (2.5YR 4/4) reddish brown, soft, wet, no odor, no staining.	135-EE27A-10.0-10.5
11	5							135-EE27A-12.0-12.5
12								
13		0.0	moist	3	FILL		fine SAND, some silt, trace brick fragments (brown silt lens @ 14.5-15.0), (7.5YR 3/2) dark brown, loose, moist, no odor, no staining.	135-EE27A-14.0-14.5
14								
15		0.0	moist	3	FILL		SILT, interbedded with dark brown fine to medium sand, trace fill material, (7.5YR 4/4) brown, moist, no odor, no staining.	135-EE27A-15.7-16.2
16	5	2.7	moist	7	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), (7.5YR 3/3) dark brown, moist, moderate organic odor, no staining. Soils consistent with MM.	135-EE27A-16.2-16.7
17								
18								
19		1.8	moist	9	OL		UNDorg SILT, (90% organic silt, 10% organic fibers), (10YR	

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



Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611436.2
Date Started Drilling: 9/14/2015 8:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682607.6
Date Finished Drilling: 9/14/2015 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - 99 Annex (Street)		Surface Elevation: 8.7 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 ID
1 2 3 4 5	4	0.0	dry	2	ASPHALT		ASPHALT.	135-FF23A-1.0-1.5
		0.0		3	FILL		Subbase Gravel, (Trap Rock).	
		0.0	dry	3	FILL		CINDERS,some brick,fine to medium gravel,(trace red fine sands thoroughout),(10YR 3/3) dark brown,dry,no odor,no staining. fine to medium sand,some ash,wood fragments,(10YR 2/1) black,moist,slight hydrocarbon odor,hydrocarbon staining.	
		0.0	moist	3	FILL			
				NR		NO RECOVERY.		
6 7 8 9 10	5	10.2	moist	6	FILL		fine to medium SAND,some cinders and ash,(trace slag and tar-like material @5.0-6.5), (10YR 2/1) black, moist,slight naphthalene odor,hydrocarbon staining, DTW @ 6.4'.	135-FF23A-5.0-5.5
		0.0	moist	3	FILL		SILT, and ash, some fine to medium gravel,(10YR 4/3) brown,moist,no odor,no staining.	135-FF23A-7.0-7.5
		0.0	moist	3	FILL		SILT,some fine to medium sand,little fine to medium gravel,(5YR 3/2) dark reddish brown,moist,no odor,no staining.	
		11 12 13 14 15	4	0.0	moist	3	FILL	
								135-FF23A-11.5-12.0
0.0	moist			7	PT		PEAT (degraded vegetated material), (80% organic fibers 20% organic silt)(7.5YR 4/2) brown,moist,moderate organic odor,no staining. Soils consistent with MM.	135-FF23A-12.0-12.5
				NR		NO RECOVERY.		
5	0.0			moist	9	OL		
19		0.0	moist	8	SM		fine to medium SAND,little silt,trace clay,organic fibers, (7.5YR 6/1) gray,moist, slight organic odor,no staining. Soils consistent with UNDno.	

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 135-FF24A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611417.5
Date Started Drilling: 9/14/2015 9:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682586.1
Date Finished Drilling: 9/14/2015 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - 99 Annex (Street)		Surface Elevation: 9.1 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	4	0.0	dry	2	ASPHALT		ASPHALT, and subbase gravel(Trap Rock) with trace asphalt fragments.	
2		0.0	moist	3	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-1.2-1.7
3								135-FF24A-3.0-3.5
4					NR		NO RECOVERY.	
5	5	0.0	moist	3	FILL		ASH,some fine to medium gravel,(7.5YR 2.5/1) black,moist,no odor,no staining.	135-FF24A-5.0-5.5
6		0.0	moist	3	FILL		fine to medium SAND,some medium to coarse gravel,little black staining,(10YR 2/2) very dark brown,moist,no odor, DTW @ 6.4'.	
7		0.0	moist	3	FILL		fine to medium SAND,some silt,fine to medium gravel,slight black staining,(10YR 5/3) brown,moist,no odor.	135-FF24A-7.0-7.5
8								
9	4							135-FF24A-9.0-9.5
10		0.0	moist	3	FILL		fine to medium SAND,trace concrete,(2.5YR 3/3) dark reddish brown,moist,no odor,no staining.	
11		0.0	saturated	3	FILL		fine SAND and coarse gravel,some silt,(2.5YR 3/3) dark reddish brown,saturated,no odor,no staining.	135-FF24A-11.0-11.5
12								
13	5	1.1	moist	9	OL		UNDorg SILT,(80% organic silt,20% organic fibers), (10YR 4/3) brown, moist,moderate organic odor,no staining.Soils consistent with UNDorg.	135-FF24A-12.8-13.3
14					NR		NO RECOVERY.	135-FF24A-13.3-13.8
15								
16		1.2	moist	9	OL		UNDorg SILT, (90 % organic silt, 10% organic fibers), (10YR 4/3) brown,moist,no odor,no staining. Soils consistent with UNDorg.	
17	5							
18								
19		0.0	moist	8	SM		fine SAND, (10YR 6/1) gray,moist,no odor,no staining. Soils consistent with UNDno.	

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

PPG - 2012-09 RA PPG LOGS - A.GDT - 9/28/15 11:52

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/22/2007**Elevation:** 11.08**State Plane Coordinates** X: 682134.3 Y: 610954.3**Drilling Method:** HSA**ENSR** | **AECOM****135-MW1A**

Page: 1 of 2

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser #00 Sand Seal	0.0			Asphalt
1						Black medium SAND, little fine Gravel, dry.
2		#1 Sand Filter Pack	0.0			Brown medium SAND and ASH, little fine Gravel and Ceramic peices, dry.
3			1.5 ppm			Gray fine COBBLES
4		2 in dia 10-Slot PVC Screen	0.0			Black SILT and ASH, some brick fragments and fine Gravel.
5			0.0	1		Grey-Brown ASH, some fine Gravel, little Brick and Coal fragments, wet.
6				4		Gray-Brown ASH and SILT, some fine Gravel, little brick fragments, coal pieces and glass, wet.
7			N/A	3		Dark Gray (10YR 4/1) ASH, some Silt and crushed Fill Material (shell, wood, coal), little very fine to medium Sand, very loose, wet. No odor.
8				1		Brown (7.5YR 4/3) SILT, trace very fine Sand, trace coarse Gravel, very loose, moist. No odor.
				1		No Recovery

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/22/2007**Elevation:** 11.08**State Plane Coordinates** X: 682134.3 Y: 610954.3**Drilling Method:** HSA**ENSR** | **AECOM****135-MW1A**

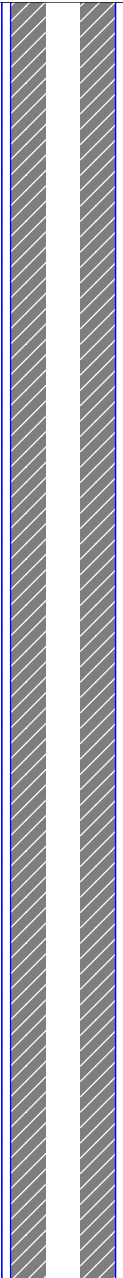
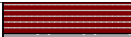






Page: 2 of 2

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
9			0.0	1		
				WH		Dark Grayish Brown (10YR 4/2) SILT, little fine to medium Sand, trace fine angular Gravel and Clay, wet, very loose. No odor.
10			0.0			No Recovery
				WH		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
11			0.0	1		No Recovery
				1		
12			0.0	2		
				2		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
13			0.0	2		Brown (10YR 4/3) SILT, some very fine to fine Sand, trace fine Gravel, wet, very loose. No odor
				3		Brown (10YR 4/3) SILT, trace coarse Sand, moist, very loose. No odor.
14			0.0	2		
				1		End of boring at 16 ft.
15						
16						

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/23/2007**Elevation:** 10.0 ft NAVD88**State Plane Coordinates:** X: 682129.9 Y: 610948**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1B**

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	0.0			Asphalt
						Black medium SAND, little fine Gravel, dry.
1						Brown medium SAND and ASH, little fine Gravel and Ceramic peices, dry.
2						Grey-Brown ASH, some fine Gravel, little Brick and Coal fragments, wet.
3						Dark Gray (10YR 4/1) ASH, some Silt and crushed Fill Material (shell, wood, coal), little very fine to medium Sand, very loose, wet. No odor.
4				0.0		Brown (7.5YR 4/3) SILT, trace very fine Sand, trace coarse Gravel, very loose, moist. No odor.
5				1		Brown (7.5YR 4/3) SILT, trace coarse Gravel, very loose, moist. No odor.
6				4		No Recovery
7				3		
8				2		
			N/A	3		
				1		
				1		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/23/2007**Elevation:** 10.0 ft NAVD88**State Plane Coordinates:** X: 682129.9 Y: 610948**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1B**

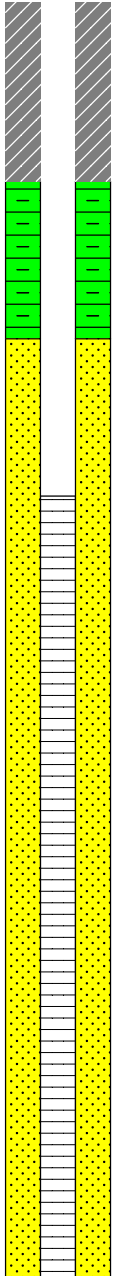
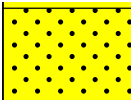

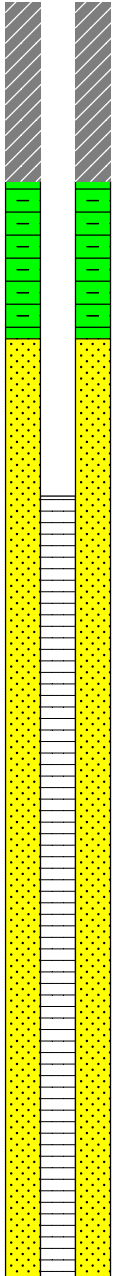
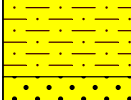
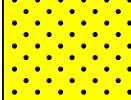
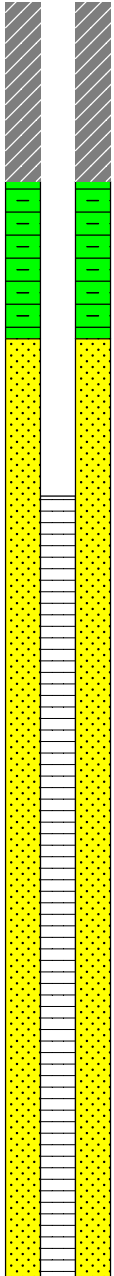

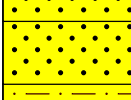
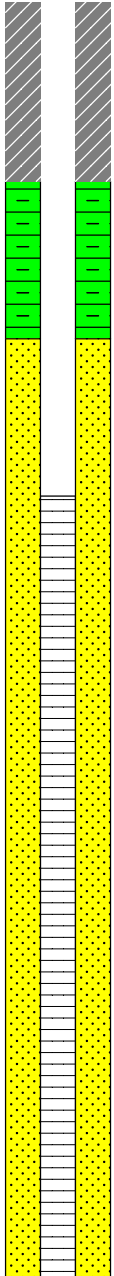
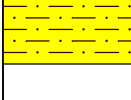

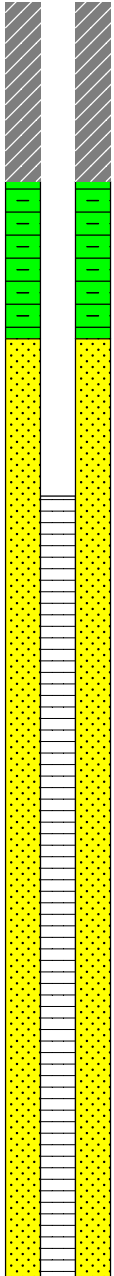

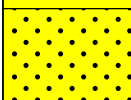
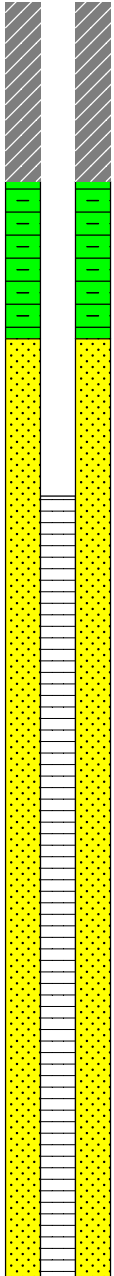


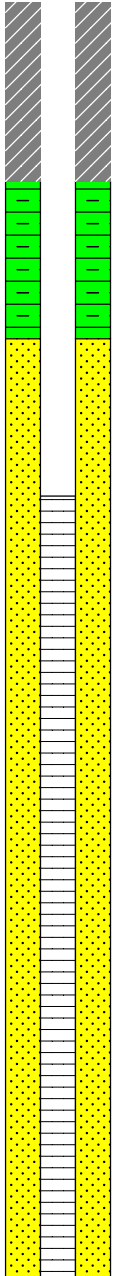
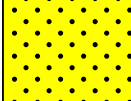
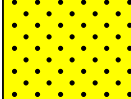
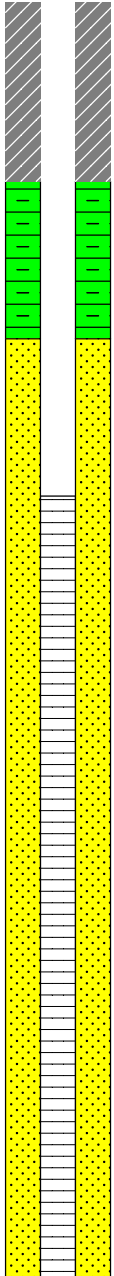

Page: 2 of 4

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
9				1		
			0.0	WH		Dark Grayish Brown (10YR 4/2) SILT, little fine to medium Sand, trace fine angular Gravel and Clay, wet, very loose. No odor.
10						No Recovery
11			0.0	WH		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
12				1		No Recovery
				1		
				2		
13			0.0	2		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
				2		
14			0.0	2		Brown (10YR 4/3) SILT, some very fine to fine Sand, trace fine Gravel, wet, very loose. No odor
				3		
				2		Brown (10YR 4/3) SILT, trace coarse Sand, moist, very loose. No odor.
15			0.0	2		
				1		
16			1.3	1		Very Dark Gray (7.5YR 3/1) PEAT, organics,

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/23/2007**Elevation:** 10.0 ft NAVD88**State Plane Coordinates:** X: 682129.9 Y: 610948**Drilling Method:** HSA/Mud Rotary**ENSR | AECOM****135-MW1B**

Page: 4 of 4

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
25		#00 Sand Seal	14.0	5		Dark Greenish Gray (Gley2 N4/0) medium SAND, some Silt, trace Clay, moist, very loose. Sulfur odor.
				1		Very Dark Gray (2.5Y 3/1) SILT, some Clay, trace very fine to fine Sand, moist, cohesive, very soft. Slight sulfur odor.
26		#1 Sand Filter Pack	1.8	3		Very Dark Grayish Brown (10Y 3/2) graded coarse to fine SAND, little medium to fine rounded Gravel, moist, very loose. No odor.
				4		Very Dark Grayish Brown (10Y 3/2) graded coarse to fine SAND, little medium to fine rounded Gravel, moist, very loose. No odor.
27		#1 Sand Filter Pack	0.2	2		No Recovery
				6		Very Dark Grayish Brown (10Y 3/2) graded coarse to fine SAND, little medium to fine rounded Gravel, moist, very loose. No odor.
28		2 in dia 10-Slot PVC Screen	0.0	3		Very Dark Grayish Brown (10Y 3/2) medium to fine SAND, little medium to fine rounded Gravel, moist, loose. No odor.
				9		Very Dark Grayish Brown (10Y 3/2) SILT, some Clay and very fine to fine Sand, moist, cohesive, medium. No odor.
29		2 in dia 10-Slot PVC Screen	0.0	6		No Recovery
				9		Reddish Brown (5YR 4/3) medium SAND, some fine to medium angular Gravel, moist, loose. No odor.
30		2 in dia 10-Slot PVC Screen	0.0	10		Weak Red (10R 4/4) fine SAND, trace Silt, moist, medium dense. No odor.
				11		No Recovery
31		2 in dia 10-Slot PVC Screen	0.0	9		Weak Red (10R 4/4) graded fine to very fine SAND, trace Silt, moist, loose. No odor.
				7		Weak Red (10R 4/4) graded fine to very fine SAND, trace Silt, moist, loose. No odor.
32		2 in dia 10-Slot PVC Screen	0.0	7		End of boring at 32.5 ft.

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR | AECOM****135-MW1C**

Page: 1 of 12

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings	0.0			Asphalt
		135-1CA (0.6-1.1) Cr+6, TAL Metals				Black medium SAND, little fine Gravel, dry.
-1						Brown medium SAND and ASH, little fine Gravel and Ceramic peices, dry.
			0.0			Red-Brown SILT and ASH, some brick fragments, little glass fragments.
-2		135-1CB (1.8-2.3) Cr+6, TAL Metals 135-1CBD (1.8-2.3) Cr+6, TAL Metals				
-3						Grey-Brown ASH, some fine Gravel, little Brick and Coal fragments, wet.
-4			0.0			Gray-Brown ASH, some fine to medium Gravel, little brick, glass and coal pieces, wet.
-5		135-1CC (4.5-5.0) Cr+6, TAL Metals				Dark Gray (10YR 4/1) ASH, some Silt and crushed Fill Material (shell, wood, coal), little very fine to medium Sand, very loose, wet. No odor.
		135-1BE (5.2-5.7) Cr+6, TAL Metals	0.0	1		
-6				4		Brown (7.5YR 4/3) SILT, trace very fine Sand, trace coarse Gravel, very loose, moist. No odor.
				3		
				2		Brown (7.5YR 4/3) SILT, trace coarse Gravel, very loose, moist. No odor.
-7			N/A	3		No Recovery
-8				1		
				1		
				1		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

Page: 2 of 12

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
9		135-1BF (9.0-9.4) Cr+6, TAL Metals	0.0	WH		Dark Grayish Brown (10YR 4/2) SILT, little fine to medium Sand, trace fine angular Gravel and Clay, wet, very loose. No odor.
10						No Recovery
11			0.0	WH		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
12				1		No Recovery
				1		
				2		
13		135-1BG (13.0-13.5) Cr+6, TAL Metals	0.0	2		Dark Grayish Brown (10YR 4/2) SILT, some to little medium angular Gravel, little fine to medium Sand, trace Clay, wet, very loose. No odor.
				2		
14		135-1BH (14.0-15.0) Cr+6, TAL Metals 135-1BHD (14.0-15.0) Cr+6, TAL Metals	0.0	2		Brown (10YR 4/3) SILT, some very fine to fine Sand, trace fine Gravel, wet, very loose. No odor.
				3		
15			0.0	2		Brown (10YR 4/3) SILT, trace coarse Sand, moist, very loose. No odor.
				1		
16		135-1BI (16.0-17.0) MS/MSD, Cr+6, TAL Metals	1.3	1		Very Dark Gray (7.5YR 3/1) PEAT, organics, moist, cohesive, very soft. Sulfur odor.
				1		
17			36.1	WH		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary

ENSR | AECOM

135-MW1C

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
18		135-1BJ (17.3-18.3) MS/MSD, Cr+6, TAL Metals	27.3			
		135-1BK (18.3-18.8) Cr+6, TAL Metals		3		Dark Greenish Gray (Gley2 N4/0) SILT, little Organics and fine Sand, moist, cohesive, very soft. No odor.
19			71.7	1		Dark Greenish Gray (Gley2 N4/0) SILT, some Clay and fine Sand, moist, cohesive, very soft. No odor.
				2		
20			67.2	1		
				1		No Recovery
21			52.1	2		Dark Greenish Gray (Gley2 N4/0) SILT, some Clay and fine Sand, moist, cohesive, very soft. Sulfur odor.
		135-1BL (21.3-22.3) Cr+6, TAL Metals		1		
		135-1BLD (21.3-22.3) Cr+6, TAL Metals		1		
22			8.5	1		
				3		No Recovery
23			16.4	3		Dark Greenish Gray (Gley2 N4/0) SILT, some Clay, trace very fine Sand, moist, cohesive, soft. Sulfur odor.
				3		
24			9.7	4		
				5		Dark Greenish Gray (Gley2 N4/0) medium SAND, some Silt, trace Clay, moist, very loose. Sulfur odor.
25			14.0	1		Very Dark Gray (2.5Y 3/1) SILT, some Clay, trace very fine to fine Sand, moist, cohesive, very soft. Slight sulfur odor.
				3		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

Page: 4 of 12

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
26		135-1BM (26.3-26.8) Cr+6, TAL Metals	1.8	4		Very Dark Grayish Brown (10Y 3/2) graded coarse to fine SAND, little medium to fine rounded Gravel, moist, very loose. No odor.
				3		
27			0.2	2		No Recovery
				6		Very Dark Grayish Brown (10Y 3/2) graded coarse to fine SAND, little medium to fine rounded Gravel, moist, very loose. No odor.
28			0.0	3		Very Dark Grayish Brown (10Y 3/2) medium to fine SAND, little medium to fine rounded Gravel, moist, loose. No odor.
				9		Very Dark Grayish Brown (10Y 3/2) SILT, some Clay and very fine to fine Sand, moist, cohesive, medium. No odor.
29			0.0	6		No Recovery
				9		
30			0.0	10		Reddish Brown (5YR 4/3) medium SAND, some fine to medium angular Gravel, moist, loose. No odor.
				11		Weak Red (10R 4/4) fine SAND, trace Silt, moist, medium dense. No odor.
31			0.0	9		No Recovery
				7		Weak Red (10R 4/4) graded fine to very fine SAND, trace Silt, Weak Red (10R 4/4) SILT at 32.5-32.6 ft., moist, loose. No odor.
32			0.0	7		
				6		
33			0.0	2		Weak Red (10R 4/4) SILT and very fine SAND, wet, very loose. No odor.
				4		
34			0.0	3		No Recovery

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation** 9.9 ft NAVD88**State Plane Coordinates** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
35				5		
			0.0	4		Weak Red (10R 4/4) SILT and very fine SAND, moist to wet, loose. No odor.
				4		
36			0.0	7		No Recovery
				7		
37			0.0	3		Weak Red (10R 4/4) SILT, some to little very fine Sand, wet, loose. No odor.
				7		No Recovery
38				10		
				9		
39			0.0	6		Weak Red (10R 4/4) SILT, some to little very fine Sand, wet, loose. No odor.
				6		
40			0.0	6		No Recovery
				6		
41			0.0	3		Weak Red (10R 4/4) SILT, some to little very fine Sand, wet, very loose. No odor.
				4		
42			0.0	4		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
				4		No Recovery
43			0.0	3		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

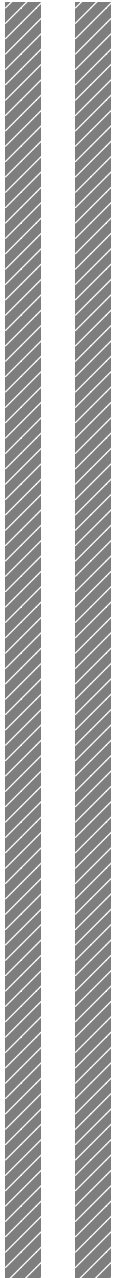
Page: 6 of 12

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
44				4		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
			0.0	4		Weak Red (10R 4/4) SILT, some very fine Sand, wet, loose. No odor.
				5		No Recovery
45			0.0	4		Weak Red (10R 4/4) SILT, some very fine Sand, interbedded with little Weak Red (10R 4/4) Silt, wet, loose. No odor.
				4		
46			0.0	5		
				6		No Recovery
47			0.0	4		Weak Red (10R 4/4) SILT, some very fine Sand, interbedded with little Weak Red (10R 4/4) Silt, wet, very loose. No odor.
				3		No Recovery
48				2		
				2		
49			0.0	3		Weak Red (10R 4/4) SILT, some very fine Sand, interbedded with little Weak Red (10R 4/4) Silt, wet, loose. No odor.
				5		
50			0.0	5		
				4		Weak Red (10R 4/4) SILT, little Clay, moist, cohesive, soft. No odor.
51			0.0	4		No Recovery
				4		Weak Red (10R 4/4) SILT, little to trace very fine Sand, very loose, wet. No odor.

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
52				0.0	3	No Recovery
					4	
53				0.0	3	Weak Red (10R 4/4) SILT, trace to none very fine Sand, very loose, wet. No odor.
					4	
54				0.0	5	
					6	No Recovery
55				0.0	4	Weak Red (10R 4/4) SILT, trace to none very fine Sand, very loose, wet. No odor.
					3	
56					4	No Recovery
					3	
57				0.0	4	Weak Red (10R 4/4) SILT, trace to none very fine Sand, loose, wet. No odor.
					4	
58				0.0	5	
					9	No Recovery
59				0.0	3	Weak Red (10R 4/4) SILT, trace to none very fine Sand, medium dense, wet. No odor.
					9	
60				0.0	11	No Recovery

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
61				15		
			0.0	6		Weak Red (10R 4/4) SILT, trace to none very fine Sand, loose, wet. No odor.
				10		
62			0.0	10		
				12		
						No Recovery
63			0.0	1		Weak Red (10R 4/4) SILT, trace to none very fine Sand, loose, wet. No odor.
				3		
64			0.0	9		
				9		No Recovery
65			0.0	8		Weak Red (10R 4/4) SILT, trace to none Clay, loose, wet. No odor.
				7		
66			0.0	4		No Recovery
				4		
67			N/A	4		
				2		
68				2		
				2		
69						

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
70			0.0	2		Dark Reddish Gray (10R 4/1) CLAY and Weak Red (10R 4/4) SILT with little to trace very fine Sand, interbedded, cohesive, very soft, moist. No odor.
				2		
			0.0	2		
				2		
71			0.0	WH		Dark Reddish Gray (10R 4/1) CLAY and Weak Red (10R 4/4) SILT with little to trace very fine Sand, interbedded, cohesive, soft, moist. No odor.
				1		
			0.0	2		
				1		
72			0.0	3		Dark Reddish Gray (10R 4/1) CLAY and Weak Red (10R 4/4) SILT with little to trace very fine Sand, interbedded, cohesive, soft, moist. No odor.
				2		
			0.0	3		
				3		
73			0.0	WH		Weak Red (10R 4/4) SILT, some Clay, interbedded with some Weak Red (10R 4/4) Silt and very fine Sand, moist, cohesive, very soft. No odor.
				1		
			0.0	2		
				3		
74			0.0	WH		Weak Red (10R 4/4) SILT, some Clay, interbedded with some Weak Red (10R 4/4) Silt and very fine Sand, moist to wet, cohesive, very
				1		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
78			0.0	2		soft. No odor.
				4		No Recovery
79			0.0	2		Gray (Gley1 5N/0) SILT, some Clay, interbedded with some Weak Red (10R 4/4) Silt, trace very fine Sand, moist, cohesive, soft. No odor.
				3		
80			0.0	3		
				5		
81			0.0	3		
				4		
82			0.0	4		
				4		
83			0.0	1		No Recovery
				3		
84			0.0	4		
				5		No Recovery
85			0.0	3		Gray (Gley1 5N/0) SILT, some Clay, interbedded with some Weak Red (10R 4/4) Silt, trace very fine Sand, moist, cohesive, soft. No odor.
				3		
86			0.0	4		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
87			0.0	5		No Recovery
				3		Gray (Gley1 5N/0) SILT, some Clay, interbedded with some Weak Red (10R 4/4) Silt, trace very fine Sand, moist, cohesive, soft. No odor.
				2		No Recovery
88			0.0	3		Gray (Gley1 5N/0) SILT, some Clay, interbedded with trace Weak Red (10R 4/4) Silt, trace very fine Sand, moist, cohesive, soft. No odor.
				3		
				3		
89			0.0	3		Weak Red (10R 4/4) SILT, trace Clay, interbedded with trace Gray (Gley1 5N/0) Clay and Weak Red (10R 4/4) Silt and very fine Sand, moist, cohesive, very soft. No odor.
				4		
				3		
90			0.0	3		No Recovery
				3		
				2		
91			0.0	2		No Recovery
				2		
				4		
92			0.0	2		No Recovery
				4		
				4		
93			0.0	4		No Recovery
				3		
				4		
94			N/A	4		
				4		

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** P. Kelly, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 12/13/2007**Well Completion Date:** 3/30/2007**Elevation:** 9.9 ft NAVD88**State Plane Coordinates:** X: 682131.2 Y: 610951.4**Drilling Method:** HSA/Mud Rotary**ENSR | AECOM****135-MW1C**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
95		#00 Sand Seal	0.0	2		Weak Red (10R 5/4) SILT, little Clay, moist to wet, cohesive, medium. No odor.
				5		
96		#1 Sand Filter Pack	0.0	7		No Recovery
				9		
97			0.0	5		Weak Red (10R 4/4) very fine SAND, some Silt, moist, loose. No odor.
				5		Weak Red (10R 5/4) SILT, and some interbedded Clay, wet, cohesive, medium. No odor.
98		2 in dia 10-Slot PVC Screen	0.0	5		No Recovery
				7		No Recovery
99			0.0	10		Weak Red (10R 5/4) very fine SAND and SILT, moist, loose. No odor.
				7		No Recovery
100				5		
				7		
101			0.0	10		Weak Red (10R 5/4) SILT, little very fine Sand, moist, loose. No odor.
				50/4		
102			0.0	NULL		Weak Red (10R 5/4) fine to medium sub-angular GRAVEL, some very fine Sand and Silt, moist, very dense. No odor.
						No Recovery
103						End of boring at 103 ft.

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/17/2007**Elevation** 9.1 ft NAVD88**State Plane Coordinates** X: Y:**Drilling Method:** HSA**ENSR | AECOM****135-MW2A**

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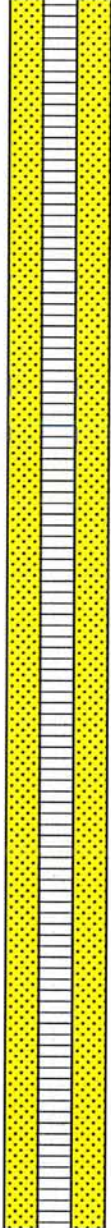


Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser				
		#00 Sand Seal	0.50			Black (10YR 2/1) fine to coarse SAND, little fine to medium Gravel, trace organics, glass, loose, semi-moist. No odor.
1						
			1.00			Black (10YR 2/1) coarse to fine SAND and SLAG, little organics, coal, moist, loose. No odor.
2		#1 Sand Filter Pack	0.8			
			0.50			Very Dark Brown (7.5YR 2.5/2) coarse to fine SAND, some SLAG, little organics, trace coarse to fine Gravel, moist. No odor.
			0.3			Black (7.5YR 2.5/1) coarse to fine SAND, medium to fine Gravel, little Fill Material (coal, glass, metal), organics, moist. No odor.
3		2 in dia 10-Slot PVC Screen	0.20			Very Dark Brown (7.5YR 2.5/2) medium to fine SAND, trace Silt, trace Clay, SLAG, moist. No odor.
			0.80			Very Dark Gray (10YR 3/1) fine to very fine SAND, little Clay, metal, moist. No odor.
4			0.2			Black (10YR 2/1) coarse to fine SAND, some coarse to fine Gravel, little organics, coal, wood, moist. No odor.
			0.50			Black (10YR 2/1) coarse to fine SAND, some coarse to fine Gravel, little organics, coal, wood, very moist. Some odor.
5			0.2			5-27 ft LITHOLOGY USED FROM GEOPROBE EVENT 12/21/06 Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose. No odor.

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

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/17/2007**Elevation****State Plane Coordinates** X: Y:**Drilling Method:** HSA**ENSR | AECOM****135-MW2A**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
6				0.1		
7						No Recovery
8						Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, loose. No odor.
9						No Recovery
10						
11						

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

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Client: PPG Industries

Site: Site 135

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/17/2007

Elevation

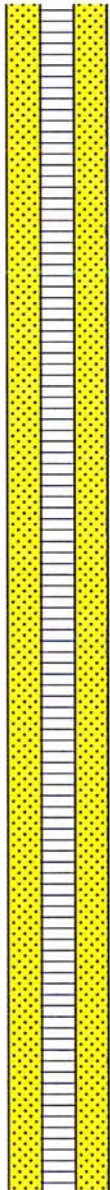


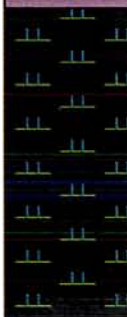

State Plane Coordinates X: Y:

Drilling Method: HSA

ENSR | AECOM

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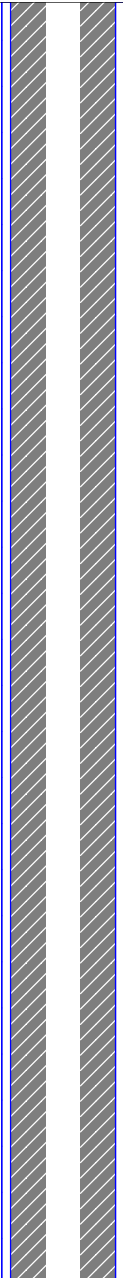

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
12			0.0			Brown (7.5 YR 4/3) fine to coarse SAND and SILT, little to trace Clay, wet, cohesive, soft. No odor.
13			0.4			Gray large rounded GRAVEL, dense.
14			144.0			PEAT, organics, moist, cohesive, soft. Sulfur odor.
15						No Recovery
16			146.0			Very Dark Gray (5Y 3/1) organic CLAY, little organics, moist, cohesive, soft. Sulfur odor.
End of boring at 16.5 ft.						

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

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Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/18/2007**Elevation:** 10.34**State Plane Coordinates:** X: 682568 Y: 611416**Drilling Method:** HSA/Mud Rotary**ENSR | AECOM****135-MW2B**

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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	0.50	1.00		Black (10YR 2/1) fine to coarse SAND, little fine to medium Gravel, trace organics, glass, loose, semi-moist. No odor.
1						Black (10YR 2/1) coarse to fine SAND and SLAG, little organics, coal, moist, loose. No odor.
2						Very Dark Brown (7.5YR 2.5/2) coarse to fine SAND, some SLAG, little organics, trace coarse to fine Gravel, moist. No odor.
3						Black (7.5YR 2.5/1) coarse to fine SAND, medium to fine Gravel, little Fill Material (coal, glass, metal), organics, moist. No odor.
4						Very Dark Brown (7.5YR 2.5/2) medium to fine SAND, trace Silt, trace Clay, SLAG, moist. No odor.
5						Very Dark Gray (10YR 3/1) fine to very fine SAND, little Clay, metal, moist. No odor.
						Black (10YR 2/1) coarse to fine SAND, some coarse to fine Gravel, little organics, coal, wood, moist. No odor.
						Black (10YR 2/1) coarse to fine SAND, some coarse to fine Gravel, little organics, coal, wood, very moist. Some odor.
						5-27 ft LITHOLOGY USED FROM GEOPROBE EVENT 12/21/06 Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose. No odor.

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

Client: PPG Industries

Site: Site 135

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/18/2007

Elevation: 10.34

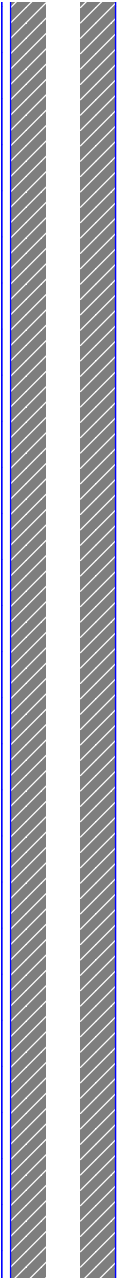




State Plane Coordinates: X: 682568 Y: 611416

Drilling Method: HSA/Mud Rotary

ENSR | AECOM

135-MW2B

Page: 2 of 6

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
6				0.1		
7						No Recovery
8						Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, loose. No odor.
9						No Recovery
10						
11						

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/18/2007**Elevation:** 10.34**State Plane Coordinates** X: 682568 Y: 611416**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW2B**

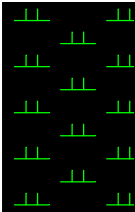
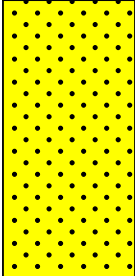
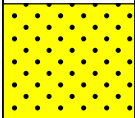
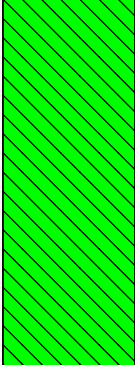
Page: 3 of 6

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
12			0.0			
						Brown (7.5 YR 4/3) fine to coarse SAND and SILT, little to trace Clay, wet, cohesive, soft. No odor.
13			0.4			Gray large rounded GRAVEL, dense.
						PEAT, organics, moist, cohesive, soft. Sulfur odor.
14			144.0			No Recovery
15						
16			146.0			Very Dark Gray (5Y 3/1) organic CLAY, little organics, moist, cohesive, soft. Sulfur odor.

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/18/2007**Elevation** 10.34**State Plane Coordinates** X: 682568 Y: 611416**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW2B**

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
17			187.0			PEAT, organics, moist, cohesive, soft. Sulfur odor.
18			33.6			Gray (Gley N5/0) SAND, little Clay, trace Silt, moist, medium dense. Sulfur odor.
19						No Recovery
20			0.5			Gray (Gley N5/0) SAND, little Clay, trace Silt, wet, loose. Slight sulfur odor.
21			0.0			Gray (Gley N5/0) CLAY, little Silt, dry, cohesive, soft. No odor.
22			0.0			

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

Client: PPG Industries

Site: Site 135

Site Location: Jersey City, NJ

Geologist: B. Ergezen, M. Merdinger

Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 3/29/2007

Well Completion Date: 4/18/2007

Elevation: 10.34

State Plane Coordinates: X: 682568 Y: 611416

Drilling Method: HSA/Mud Rotary

ENSR | AECOM

135-MW2B

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Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
23						
						Gray (Gley N5/0) SANDY CLAY, wet, cohesive, soft. No odor.
24			0.0			No Recovery
						Gray (Gley N5/0) fine to coarse SAND, trace Silt, wet, loose. No odor.
25			0.0			
26		#00 Sand Seal	0.0			
						Dark Reddish Gray (10R 4/1) fine to medium SAND, trace Silt, wet, loose. No odor.
27		#1 Sand Filter Pack	0.0	3		
				5		Dark Gray (5YR 4/1) coarse to fine SAND, trace Silt and coarse to fine angular Gravel, wet, very

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

Client: PPG Industries**Site:** Site 135**Site Location:** Jersey City, NJ**Geologist:** B. Ergezen, M. Merdinger**Drilling Company:** Eichelbergers**Driller:** N. Moyer**Drilling Date:** 3/29/2007**Well Completion Date:** 4/18/2007**Elevation** 10.34**State Plane Coordinates** X: 682568 Y: 611416**Drilling Method:** HSA/Mud Rotary**ENSR** | **AECOM****135-MW2B**

Page: 6 of 6

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
28		2 in dia 10-Slot PVC Screen	0.0	5		loose. No odor.
				6		Dark Reddish Gray (5YR 4/2) fine to very fine SAND, little to trace Silt, trace coarse to medium Sand, wet, loose. No odor.
29			0.0	3		No Recovery
				3		Dark Reddish Gray (5YR 4/2) fine to very fine SAND, little to trace Silt, trace coarse to medium Sand, wet, very loose. No odor.
30			0.0	4		Weak Red (10R 4/3) very fine SAND and SILT, wet, very loose. No odor.
				6		No Recovery
31			0.0	6		Weak Red (10R 4/3) SILT, little to trace very fine Sand, wet, loose. No odor.
				5		Weak Red (10R 4/2) SILT, some medium to coarse Sand, little fine rounded Gravel, wet, loose. No odor.
32				6		Weak Red (10R 4/3) SILT, little very fine Sand, wet, loose. No odor.
				6		No Recovery
33						End of boring at 33 ft.

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60616701	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611125.5
Date Started Drilling: 11/26/2013 10:21:00 AM	Rig Type: Mud Rotary	Coordinates (NJSPNAD83) y: 682308.2
Date Finished Drilling: 11/26/2013 11:30:00 AM	Core Size: 2 inch	Boring Total Depth: 15 ft
Logged By: Erich Weiss	Project Manager: Scott Mikaelian	Depth to Water: 9.0 ft
Physical Location: Pacific Avenue		Surface Elevation: 11.6 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	
		0.0	dry	FILL		fine to coarse SAND, with fine to medium gravel, (7.5YR 3/3) dark brown, non plastic, loose, dry, no odor, no staining.	
1		0.0	dry	FILL		fine to coarse SAND, with fine to medium gravel, little coal, (7.5YR 3/3) dark brown, non plastic, loose, dry, no odor, no staining.	
2	5	0.0	dry	FILL		fine to coarse SAND, with fine to medium gravel, little coal, (7.5YR 3/3) dark brown, non plastic, loose, dry, no odor, no staining, with brick and urban fill.	
3		0.0	dry	FILL		medium to coarse, with brick and wood fragments, (7.5YR 2.5/2) very dark brown, dry, no odor, no staining, with some coal slag and ash.	
4		0.0	moist	FILL		medium SAND, trace silt with brick, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining, with some coal ash, slag and urban fill material.	
5				NR		NO RECOVERY	
6	0						
7		0.0	moist	FILL		fine to medium SAND, with silt, (7.5YR 2.5/2) very dark brown, non plastic soft, moist, no odor, no staining.	
8	1			FILL		NO RECOVERY	
9		0.0	wet	FILL		fine to medium SAND, trace fine gravel, (7.5YR 3/3) dark brown, non plastic, soft, wet, no odor, no staining.	
10	1.6			NR		NO RECOVERY	
11		0.0	moist	FILL		fine to medium SAND, trace silt, (7.5YR 4/6) strong brown, non plastic, soft, moist, no odor, no staining.	
12	1			NR		NO RECOVERY	
13		0.0	wet	FILL		fine to medium SAND, some silt, (7.5YR 3/2) dark brown, non plastic, soft, wet, no odor, no staining.	
14	1.2	0.0	moist	FILL		medium SAND, (7.5YR 4/2) brown, non plastic, soft, moist, no odor.	
15				NR		NO RECOVERY	

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: No COPR/GGM encountered at any interval in this boring. No samples were taken.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60616701	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611114.8
Date Started Drilling: 11/21/2013 10:00:00 AM	Rig Type: Mud Rotary	Coordinates (NJSPNAD83) y: 682301.5
Date Finished Drilling: 12/5/2013 11:00:00 AM	Core Size: 2 inch	Boring Total Depth: 33 ft
Logged By: Erich Weiss	Project Manager: Scott Mikaelian	Depth to Water: 5.0 ft
Physical Location: Pacific Avenue		Surface Elevation: 11.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0			NR		Boring advanced to 3 ft bgs.	
3	1	0.0	dry	FILL		medium to coarse SAND, some fine to medium gravel, subangular, trace coal ash, paper, (7.5YR 3/1) very dark gray, non plastic loose, dry, no odor, no staining.	
4	1	0.0	moist to wet	FILL		fine to medium SAND, trace silt some medium to coarse gravel, subangular, (10YR 6/2) light brownish gray, non plastic, loose, moist to wet, slight HC odor, no staining, some fill material slag, metal, glass, coal ash, rusted metal, ceramic.	
5		0.0	wet	FILL		fine silty CLAY, wood fragments, (7.5YR 7/1) light gray, non plastic, loose, wet, no odor, no staining.	
6	1	0.0	wet	FILL		medium to coarse SAND, with gravel, subangular, and cinders, coal ash, brick, (7.5YR 3/2) dark brown, non plastic, loose, wet, no odor, no staining.	
7				NR		fine silty SAND, (7.5YR 3/2) dark brown, non plastic soft, wet, no odor, no staining.	
8	0.5		wet	FILL		NO RECOVERY	
9		0.0		NR		fine silty SAND, trace fine to medium gravel, trace coal, (7.5YR 4/2) brown, non plastic, soft, wet, no odor, no staining.	
10	0			NR		NO RECOVERY	
11				NR		NO RECOVERY	
12	1	0.0	wet	FILL		fine SAND, some fine to medium gravel, angular, trace silt, (5YR 4/3) reddish brown, non plastic, dense, wet, no odor, no staining.	
13		0.0	wet	FILL		fine silty SAND, little fine gravel, subrounded, (2.5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	
14	0.9			NR		NO RECOVERY	
15		0.0	moist	FILL		fine to medium silty SAND, little fine to medium gravel, subangular, little silt, (2.5YR 4/4) reddish brown, non plastic, soft, moist, no odor, no staining.	
16	0			NR		NO RECOVERY	
17				NR		NO RECOVERY	
18	1.6	6.9	moist	OL		UNDorg SILT, with organics, (7.5YR 4/1) dark gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
19				NR		NO RECOVERY	
20	2	7.4	moist	OL		UNDorg SILT, with organics, (7.5YR 4/1) dark gray, low plasticity, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

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: No COPR/GGM encountered at any interval in this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60616701	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611114.8
Date Started Drilling: 11/21/2013 10:00:00 AM	Rig Type: Mud Rotary	Coordinates (NJSPNAD83) y: 682301.5
Date Finished Drilling: 12/5/2013 11:00:00 AM	Core Size: 2 inch	Boring Total Depth: 33 ft
Logged By: Erich Weiss	Project Manager: Scott Mikaelian	Depth to Water: 5.0 ft
Physical Location: Pacific Avenue		Surface Elevation: 11.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
21	1.8	6.4	moist	OL		UNDorg SILT, with organics, (7.5YR 4/1) dark gray, non plastic, soft, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	
22							
23	2	8.5	moist	NR		NO RECOVERY	
24				OL			
25	1.3	0.4	moist	SM		UNDno SAND, trace silt, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	
26							
27	0	0.7	moist	SM		UNDno SAND, trace silt, (7.5YR 4/1) dark gray, non plastic, loose to soft, moist, slight organic odor, no staining. Soils consistent with UNDno.	
28				NR			
29	1.1	0.0	moist	NR		NO RECOVERY	
30				NR			
31	2	0.0	moist	SM		UNDno SAND, trace fine gravel, (5YR 3/2) dark reddish brown, non plastic, loose, moist, no odor, no staining, red fine sands. Soils consistent with UNDno.	
32							
33							

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: No COPR/GGM encountered at any interval in this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610901.211
Date Started Drilling: 12/2/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682092.11
Date Finished Drilling: 12/2/2014 9:25:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - X47AR		Surface Elevation: 9.8 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	dry	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	
2							
3		0.0	dry	FILL		ASH, (10YR 2/1) black, loose, dry, no odor, no staining.	
4		0.0	dry	FILL		ASH, trace coal, trace gravel, trace shell fragments, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	
5	5	0.0	dry	FILL		fine to medium SAND, trace gravel, (10YR 4/3) brown, medium dense, dry, no odor, no staining.	
6		0.0	slightly moist	FILL		ASH, trace gravel, trace debris, (10YR 4/1) dark gray, medium dense, slightly moist, no odor, no staining.	
7		0.0	saturated	SM		fine to medium silty SAND, trace coarse gravel, (10YR 4/3) brown, low plasticity, soft, saturated, no odor, no staining. Soils consistent with UNDno.	135-P3C-X47AR-6.5-7.0
8							
9	5						
10		0.0	wet	SM		fine to medium silty SAND, trace gravel, (10YR 4/3) brown, low plasticity, soft to medium dense, wet, no odor, no staining. Soils consistent with UNDno.	135-P3C-X47AR-10.0-10.5
11							
12							
13	5						
14							
15		0.0	slightly moist	SM		fine to medium silty SAND, trace gravel, (10YR 4/6) dark yellowish brown, low plasticity, soft to medium dense, slightly moist, no odor, no staining. Soils consistent with UNDno.	135-P3C-X47AR-16.6-17.1
16							
17	5	0.0	slightly moist	OL		SILT, 90% organic silt, 10% organic fibers, (10YR 3/1) very dark gray, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with UNDorg.	135-P3C-X47AR-17.1-17.6
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.

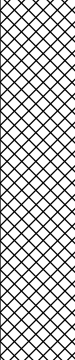
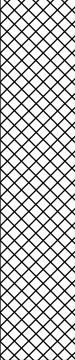
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60616701	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611333.31
Date Started Drilling: 7/31/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682491.72
Date Finished Drilling: 8/1/2018	Core Size: 2 inch	Boring Total Depth: 14.5 ft
Logged By: Brendan Murphy	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual-135-LSRP		Surface Elevation: 9.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		3.5	dry	FILL		fine to coarse SAND, trace silt and trace gravel, (5YR 4/1) dark gray, dry to wet, slight petroleum odor, hydrocarbon staining	
2							135-RI-EE28A-2.1-2.6
3		4.4	moist	FILL		fine to coarse SAND, trace silt trace gravel, trace ash, (5YR 3/1) very dark gray, medium dense, moist no odor no staining	
4		5.5	moist	FILL		fine to medium silty SAND, trace gravel, (7.5YR 4/2) brown, medium dense, moist slight petroleum odor no staining	135-RI-EE28A-4.1-4.6
5		0.0	moist	FILL		medium to coarse SAND, some fine gravel little fine sand, trace coarse gravel, (5YR 4/1) dark gray, medium dense, moist no odor no staining	
6							135-RI-EE28A-5.6-6.1
7							
8							
9							
10		0.0	moist	FILL		fine to medium silty SAND, trace fine gravel, (7.5YR 3/1) very dark gray, medium dense, moist no odor no staining	
11							135-RI-EE28A-10.4-10.9
12							
13							135-RI-EE28A-12.1-12.6
14							

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:


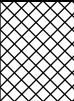
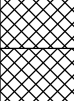
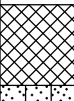


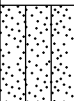
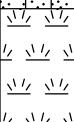
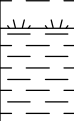
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Project Number: 60616701	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611441.25
Date Started Drilling: 7/31/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682587.9
Date Finished Drilling: 7/31/2018	Core Size: 2 inch	Boring Total Depth: 10 ft
Logged By: Brendan Murphy	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual-135-LSRP		Surface Elevation: 8.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		16.0	moist	FILL		medium to coarse SAND, trace fine sand trace gravel, trace silt, (7.5YR 2.5/2) very dark brown, medium dense, moist slight petroleum odor no staining	135-RI-FF23A24A-1.2-1.7
2							
3							
4							
5		0.0		FILL		fine silty sands, trace clay, little / trace coarse gravel, saturated, loose, black, no staining, slight organic odor,	135-RI-FF23A24A-7.2-7.7
6							
7							
8							
9							
10							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611256.8
Date Started Drilling: 9/15/2015 8:00:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682437.7
Date Finished Drilling: 9/15/2015 8:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: Michael Irving	Project Manager: Scott Mikaelian	Depth to Water: 6.0 ft
Physical Location: Former Narula Property - Bld 77		Surface Elevation: 10.9 ft NAVD88

Depth (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Soil Description:	Sample ID
				ASPHALT		ASPHALT, with Subbase Gravel(Trap Rock).	
1	4	0.0	slightly moist	FILL		fine to medium SAND, some medium to coarse gravel, little cinders, coal fragments, trace ash, (yellow fill sand lens @ 2.1-2.4), (7.5YR 3/4) dark brown, loose, slightly moist, no odor, no staining.	135-SI-DD31A-0.5-1.0
2							
3		79.5	moist	FILL		CINDERS, some ash, fine to medium sand, (petroleum impacts @ 2.8-3.1), (7.5YR 2.5/1) black, loose, moist, moderate petroleum odor, hydrocarbon staining.	135-SI-DD31A-2.6-3.1
4				NR		NO RECOVERY.	
5	2	0.0		FILL		CINDERS, some fine to medium sand, little ash, trace wood fragments, coal fragments (petroleum impacts @ 5.9-6.1), (7.5YR 2.5/1) black, loose, moderate petroleum odor, hydrocarbon staining.	135-SI-DD31A-6.2-6.7
6		0.0	wet	SM		SILT, some fine to medium sand, trace fine to coarse gravel, (7.5YR 3/4) dark brown, soft, wet, no odor, no staining, DTW @ 6.2'.	
7				NR		NO RECOVERY.	
8							
9							
10	1	0.0	wet	SM		SILT, some fine to medium sand, little fine to medium gravel, trace rock fragments, (2.5YR 4/3) reddish brown, soft, wet to saturated, no odor, no staining.	135-SI-DD31A-10.0-10.5
11				NR		NO RECOVERY.	
12							
13							
14							
15	5	0.0	moist	SM		SILT, some fine sand, little fine to medium gravel, (10YR 5/4) yellowish brown, soft, moist, no odor, no staining.	
16							
17		2.1	slightly moist	PT		PEAT (degraded vegetated material), (80% organic fibers, 20% organic silt), stiff, slightly moist, moderate organic odor, no staining. Soils consistent with MM.	
18							
19		1.4	moist	OL		UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, moist, moderate organic odor, hydrocarbon staining. Soils consistent with UNDorg.	

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



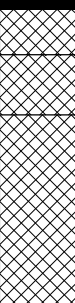
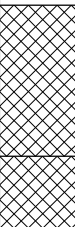
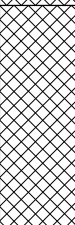

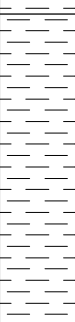
30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: 135-Z41A

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611027.2
Date Started Drilling: 8/31/2015 8:25:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682211.8
Date Finished Drilling: 8/31/2015 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 51 (Street)		Surface 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 2 3 4	4	0.0	dry	2	ASPHALT		ASPHALT.	135-Z41-0.1-0.6
		0.0		3	FILL		fine to medium SAND, and fine to medium gravel, trace brick and asphalt fragments, (10YR 3/2) very dark grayish brown, loose, dry, no odor, no staining.	
		0.0		3	FILL		crushed CONCRETE.	135-Z41-1.5-2.0
		0.0	moist	3	FILL		fine to medium SAND, and cinders, some coal, little medium to coarse gravel, (7.5YR 2.5/1) black, loose, moist, no odor, iron oxide staining.	
5				NR		NO RECOVERY.	135-Z41-3.5-4.0	
6 7 8 9 10	5	0.0	moist	3	FILL		fine to medium SAND, and ash, little cinders, fill material, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	135-Z41-5.5-6.0
4.8		moist	3	FILL	SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft, moist to wet, no odor, slight black staining, DTW @ 7.0'.		135-Z41-7.5-8.0	
0.0		moist	3	FILL	SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining.		135-Z41-9.5-10.0	
11 12 13 14 15	5	0.0	moist	3	FILL		SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (5YR 4/3) reddish brown, soft, moist, no odor, no staining.	135-Z41-11.5-12.0
1.8		slightly moist	7	PT			PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, stiff, moderate organic odor, no staining. Soils consistent with MM.	135-Z41-13.0-13.5
0.9		moist	9	OL			UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	135-Z41-13.5-14.0
16 17 18 19	5	1.1	moist	9	OL		UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg.	

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

PPG - 2012-09 RA PPG LOGS - A.GDT - 9/28/15 11:41

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610759.003
Date Started Drilling: 8/15/2016 8:50:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682079.801
Date Finished Drilling: 8/15/2016 9:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Smith PDI		Surface Elevation: 9.9 ft NAVD88


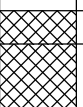
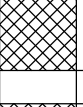
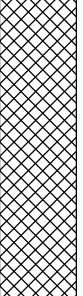
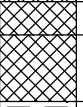
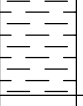

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		2	ASPHALT		Asphalt and gravel sub-base	
1	4.5		dry	3	FILL		silty SAND, trace ash and fill debris, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	ASM-T49A-1.0-1.5
2								ASM-T49A-2.0-2.5
3			moist	3	FILL		fine to medium SAND, trace fill debris, (5YR 2.5/1) black, loose, moist, no odor, no staining.	
4								ASM-T49A-4.0-4.5
5	5	0.0		NR	NR		NO RECOVERY	
6			moist to saturated	3	FILL		CINDERS, some ash, (5YR 6/1) gray, loose, moist to saturated, no odor, no staining, water at 6.5 feet.	ASM-T49A-6.0-6.5
7								
8								ASM-T49A-8.0-8.5
9	3	0.0	saturated	3	FILL		SILT, little fine sand, trace fine gravel and fill debris, (7.5YR 3/2) dark brown, medium dense, saturated, no odor, no staining.	
10								ASM-T49A-10.0-10.5
11			saturated	7	PT		PEAT (degraded vegetated material), 60% Organic fibers, 40% Organic Silt, (7.5YR 3/2) dark brown, dense, saturated, slight organic odor, no staining. Soils consistent with MM.	ASM-T49A-11.0-11.5
12			saturated	9	OL		Organic SILT, 60% Organic Silt, 40% Organic fibers, (5YR 4/1) dark gray, dense, saturated, slight organic odor, no staining. Soils consistent with UNDorg.	
13				NR	NR		NO RECOVERY	
14								
15								

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 UNDorg - organic undisturbed native deposits CCPW - chromate chemical production waste

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610781.914
Date Started Drilling: 8/15/2016 10:00:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682064.246
Date Finished Drilling: 8/15/2016 10:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Smith PDI		Surface Elevation: 10.6 ft NAVD88










Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		1	CONCRETE		Concrete sidewalk and gravel sub-base	
2				NR	NR		VOID SPACE	
3			dry to moist	3	FILL		fine silty SAND, trace fill debris, (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining.	ASM-U49A-2.0-2.5
4			moist	3	FILL		fine to medium SAND, trace silt and fill debris, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	ASM-U49A-4.0-4.5
5				NR	NR		NO RECOVERY	
6	5	0.0	moist to saturated	3	FILL		ASH, little silt, trace fine gravel and fill debris, (5YR 6/1) gray, loose, moist to saturated, no odor, no staining, water at 6.5 feet.	ASM-U49A-6.0-6.5
7								
8								ASM-U49A-8.0-8.5
9								
10	2.5	0.0	saturated	3	FILL		SILT, little fine sand, trace fill debris, (5YR 3/2) dark reddish brown, dense, saturated, no odor, no staining.	ASM-U49A-10.0-10.5
11			saturated	3	FILL		SILT, little fine sand, trace fine gravel and fill debris, (5YR 3/2) dark reddish brown, dense, saturated, no odor, no staining.	ASM-U49A-10.5-11.0
12			saturated	9	OL		Organic SILT, 70% Organic Silt, 30% Organic fibers, (5YR 6/1) gray, dense, saturated, slight organic odor, no staining. Soils consistent with UNDorg.	ASM-U49A-11.0-11.5
13				NR	NR		NO RECOVERY	
14								
15								

Notes:

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

Comments: 1) MM/UND confirmed to be 1 ft thick 2) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610826.793
Date Started Drilling: 8/15/2016 11:00:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682028.997
Date Finished Drilling: 8/15/2016 11:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Smith PDI		Surface Elevation: 10.0 ft NAVD88










Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	4.5	0.0		1	CONCRETE		Concrete sidewalk	
				NR	NR		VOID SPACE	
			dry	3	FILL		medium to coarse SAND, some fill debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	ASM-W49A-1.0-1.5
			moist	3	FILL		SILT, trace fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	ASM-W49A-2.0-2.5
			moist	3	FILL		fine to medium SAND, trace fill debris, (5YR 2.5/1) black, medium dense, moist, no odor, no staining.	ASM-W49A-4.0-4.5
6 7 8 9 10	5	0.0	moist to saturated	3	FILL		ASH, little fine sand, trace fill debris, (5YR 6/1) gray, loose, moist to saturated, no odor, no staining, water at 6.5 feet.	ASM-W49A-6.0-6.5
			saturated	3	FILL		SILT, trace fine sand and gravel, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	ASM-W49A-8.0-8.5
			saturated	3	FILL		SILT, trace fine sand and gravel, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	ASM-W49A-10.0-10.5
11 12 13 14 15	3.5	0.0	moist	7	PT		PEAT (degraded vegetated material), 60% Organic fibers, 40% Organic Silt, (5YR 3/3) dark reddish brown, very dense, moist, slight organic odor, no staining. Soils consistent with MM.	ASM-W49A-11.0-11.5
			moist	9	OL		Organic SILT, 70% Organic Silt, 30% Organic fibers, (5YR 5/1) gray, very dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
				NR	NR		NO RECOVERY	

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610910.907
Date Started Drilling: 8/18/2016 7:30:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682105.035
Date Finished Drilling: 8/18/2016	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 7.5
Physical Location: Actual - Smith PDI		Surface Elevation: 10.4 ft NAVD88


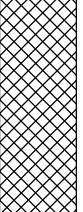
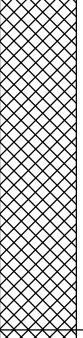
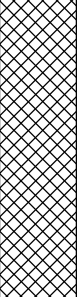

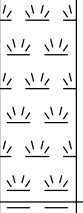

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0		1	CONCRETE		Concrete slab	
				NR	NR		NO RECOVERY	
			dry	3	FILL		fine to coarse SAND, some fill debris, trace fine gravel, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	ASM-X46A-1.0-1.5
			dry	3	FILL		ASH, some cinders, little fill debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining.	ASM-X46A-2.0-2.5
5-10	5	0.0	dry	3	FILL		ASH, some cinders, little fill debris, (5YR 3/3) dark reddish brown, loose, dry, no odor, no staining.	ASM-X46A-4.0-4.5
			moist to saturated	3	FILL		fine sandy SILT, little fine gravel, trace ash, (5YR 3/3) dark reddish brown, medium dense, moist to saturated, no odor, no staining, water at 7.5 feet.	ASM-X46A-6.0-6.5
								ASM-X46A-8.0-8.5
11-15	5	0.0		1	CONCRETE		concrete	
			saturated	3	FILL		fine sandy SILT, little fine gravel, trace ash (5YR 4/4) reddish brown, medium dense, saturated, no odor, no staining.	ASM-X46A-10.5-11.0
								ASM-X46A-12.0-12.5
								ASM-X46A-14.0-14.5
16-19	5	0.0	saturated	3	FILL		fine sandy SILT, little fine gravel, trace organics, (5YR 4/4) reddish brown, medium dense, saturated, no odor, no staining.	ASM-X46A-16.0-16.5
								ASM-X46A-18.0-18.5
								ASM-X46A-18.5-19.0
			moist	7	PT		PEAT (degraded vegetated material), 60% Organic fibers 40% Organic silt, (5YR 3/3) dark reddish brown, very dense, moist, slight organic odor, no staining. Soils consistent with MM.	ASM-X46A-19.0-19.5
20								

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610977.316
Date Started Drilling: 8/16/2016 8:25:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682168.254
Date Finished Drilling: 8/16/2016 9:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Actual - Smith PDI		Surface Elevation: 10.5 ft NAVD88












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 slab	
1				NR	NR		NO RECOVERY	
2	4.3		dry to moist	3	FILL		ASH, some cinders, trace fill debris, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, no staining.	ASM-Y43A-1.5-2.0
3								ASM-Y43A-2.0-2.5
4								ASM-Y43A-4.0-4.5
5		0.0	moist to saturated	3	FILL		SILT, little fine sand, trace coarse gravel and fill debris, (5YR 3/3) dark reddish brown, dense, moist to saturated, no odor, no staining, water at 6.0 feet.	ASM-Y43A-6.0-6.5
6								ASM-Y43A-8.0-8.5
7	5							
8								
9								
10		0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, saturated, no odor, no staining.	ASM-Y43A-10.0-10.5
11								ASM-Y43A-12.0-12.5
12								ASM-Y43A-14.0-14.5
13	5							
14								
15		0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, saturated, no odor, no staining.	ASM-Y43A-15.5-16.0
16			moist	7	PT		PEAT (degraded vegetated material), 50% Organic fibers 50% Organic silt, (5YR 3/3) dark reddish brown, very dense, moist, slight organic odor, no staining. Soils consistent with MM.	ASM-Y43A-16.0-16.5
17	5							
18								
19								
20			moist	9	OL		Organic SILT, (70% Organic silt 30% Organic fibers), (5YR 6/1) gray, dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610956.518
Date Started Drilling: 8/16/2016 9:45:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682145.211
Date Finished Drilling: 8/16/2016 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Actual - Smith PDI		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	3	FILL		fine to coarse SAND, trace fine gravel, (7.5YR 2.5/2) very dark brown, very loose, dry, no odor, no staining.	ASM-Y44A-0.0-0.5
2			dry to moist	3	FILL		ASH, little cinders, trace fill debris, (7.5YR 3/3) dark brown, loose, dry to moist, no odor, no staining.	ASM-Y44A-2.0-2.5
3			moist	3	FILL		CINDERS, some ash, little fill debris, (5YR 6/1) gray, loose, moist, no odor, no staining.	ASM-Y44A-4.0-4.5
4	5	0.0	moist	3	FILL		CINDERS, some ash, little fill debris, (5YR 6/1) gray, loose, moist, no odor, no staining.	ASM-Y44A-6.0-6.5
5								
6								
7	5	0.0	moist to saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, moist to saturated, no odor, no staining, water at 7.0 feet.	ASM-Y44A-8.0-8.5
8			saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, saturated, no odor, no staining.	ASM-Y44A-10.0-10.5
9								
10	5	0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, saturated, no odor, no staining.	ASM-Y44A-12.0-12.5
11								
12								
13	5	0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gravel, trace organics, (5YR 3/3) dark reddish brown, medium dense, saturated, no odor, no staining.	ASM-Y44A-14.0-14.5
14								
15								
16	5	0.0	moist	7	PT		PEAT (degraded vegetated material), 50% Organic fibers 50% Organic silt, (5YR 3/3) dark reddish brown, very dense, moist, slight organic odor, no staining. Soils consistent with MM.	ASM-Y44A-16.0-16.5
17			moist	9	OL		Organic SILT, (70% Organic silt 30% Organic fibers), (5YR 6/1) gray, dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
18								
19	5	0.0	moist	9	OL		Organic SILT, (70% Organic silt 30% Organic fibers), (5YR 6/1) gray, dense, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
20								

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611448.17
Date Started Drilling: 6/14/2016 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682604.15
Date Finished Drilling: 6/14/2016 10:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - CAR PDI		Surface Elevation: 8.5 ft NAVD88









Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4.5	0.0	moist	3	FILL		fine to medium SAND, little fine to medium gravel, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	CAR-PDI-GG23A-0.0-0.5
2			moist	3	FILL		fine to medium SAND, trace fine gravel and brick, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	
3			moist	3	FILL		ASH, trace cinders and fill debris, (5Y 5/1) gray, medium dense, moist, no odor, no staining.	CAR-PDI-GG23A-2.0-2.5
4			moist	3	FILL		SILT, little fine sand, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	CAR-PDI-GG23A-4.0-4.5
5	3.5	0.0		NR	NR		NO RECOVERY	
6			wet	3	FILL		SILT, trace fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining, water at 6.0 feet.	CAR-PDI-GG23A-6.0-6.5
7								
8								
9				NR	NR		NO RECOVERY	CAR-PDI-GG23A-8.0-8.5
10	3	0.0	saturated	3	FILL		fine sandy SILT, little fine gravel, (7.5YR 4/2) brown, medium dense, saturated, no odor, no staining.	CAR-PDI-GG23A-10.0-10.5
11			dry	7	PT		PEAT (degraded vegetated material), 90% organic fibers, 10% organic silt, (5YR 3/2) dark reddish brown, stiff, dry, moderate organic odor, no staining. Soils consistent with MM.	CAR-PDI-GG23A-10.5-11.0
12								
13				NR	NR		NO RECOVERY	
14								
15								

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 - chromium chemical production waste

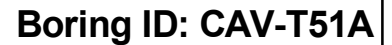
Comments: 1) 3 attempts were made to obtain best recovery 2) MM/UND confirmed to be 1 ft thick 3) No CCPW (COPR or GGM) present in any interval of this boring.

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig and Direct Push	Coordinates (NJSPNAD83) x: 610705.69
Date Started Drilling: 8/1/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682084.58
Date Finished Drilling: 8/2/2018	Core Size: 2-inch MacroCore	Boring Total Depth: 10 ft
Logged By: Brendan Murphy	Project Manager: Bill Spronz	Depth to Water: 8.5
Physical Location: Cayen Point Avenue		Surface Elevation: 10.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		Asphalt	
1				FILL		Ballast Stone	
2	5		dry	FILL		fine SAND, little coarse gravel, trace silt, (10YR 6/1) gray, loose, dry, no odor, no staining	
3				FILL		fine to medium SAND, little silt, trace ash, trace gravel, (10YR 3/3) dark brown	
4				FILL		fine to medium SAND and gravel, (10YR 5/3) brown	CAV-R50A-4.1-4.6
5		0.4	slightly moist	FILL		fine to coarse SAND, little fine to coarse gravel trace debris (glass, (7.5YR 4/1) dark gray, loose medium dense, slightly moist no odor no staining	
6							CAV-R50A-6.1-6.6
7	5		slightly moist	FILL		crushd concrete, (5Y 7/2) light gray, slightly moist no odor no staining	
8			moist	FILL		fine to coarse SAND, some fine to coarse gravel trace brick, concrete, (2.5YR 3/1) dark reddish gray, dense to medium dense, moist to wet no odor no staining	
9							
10							

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

Comments:







Page: 1

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Comments:

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/3/18 09:58

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig and Direct Push	Coordinates (NJSPNAD83) x: 610796.56
Date Started Drilling: 8/1/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 681989.52
Date Finished Drilling: 8/1/2018	Core Size: 2-inch MacroCore	Boring Total Depth: 15 ft
Logged By: Eric Acs	Project Manager: Bill Spronz	Depth to Water: 8.5
Physical Location: Cayen Point Avenue		Surface Elevation: 9.0 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		FILL		pre clear	
2							
3							
4							
5							
6	5	11.3		FILL		fine to medium SAND, some fine to coarse gravel, brown black, loose, moist, no odor, no staining, trace broken asphalt	
7				FILL		fine to medium SAND, trace amounts of coarse sand and fine gravel, saturated, loose to medium dense, brown black, no odor, no staining,	
8							
9				FILL		medium to coarse SAND, some fine gravel, black, petroleum odor, slight sheen, loose	
10	5	10.2		FILL		fine to medium SANDS, trace silt and fine gravel, reddish brown, medium dense, no odor, no staining	
11							
12				FILL		fine to coarse SAND, some coarse gravel, loose, dry, black, chunk of loose concrete in the middle, no odor, no staining	CAV-W51A-10.0-10.5
13							
14	5			FILL		fine to medium SANDS, trace coarse gravel, medium dense, brown, no odor, no staining	CAV-W51A-12.0-12.5
15				FILL		fine to medium SAND, trace silts and fine gravel, reddish brown, 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:

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-19

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611215.886
Date Started Drilling: 4/19/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682371.915
Date Finished Drilling: 4/19/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/23.5 ft
Physical Location: Pacific Avenue		Surface Elevation: 10.3 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		2			Black Asphalt	EF-B19_0.8
2		0	dry	3	Fill		Dark Brown (7.5YR 3/2) fine SAND, some Silt, little fine to medium angular Gravel, trace Cobbles, medium dense, dry. No odor.	EF-B19_2.0
3		0	dry	6	Fill		Black fine to coarse SAND, GRAVEL and Fill Material (slag, ash, cinders), very loose, dry. No odor.	EF-B19_2.5
4		0						EF-B19_4.0
5		24.2						
6		98.6	wet	3	Fill		Black to Dark Reddish Gray (5YR 4/2) SILT and fine to medium SAND, little fine angular Gravel and Concrete, trace Coal, loose, wet. Naphthalene odor.	EF-B19_6.0
7	1.5				Fill		No Recovery	
8								
9								
10		33.4						EF-B19_10.0
11		1.7	wet	3	Fill		Same as above.	EF-B19_11.0
12	1.1				Fill		No Recovery	
13								
14								
15		18.5						EF-B19_15.0
16		143	moist	3	Fill		Reddish Brown (2.5YR 4/3) fine SAND, little very fine Sand and Silt, medium dense, moist. No odor.	EF-B19_15.0X
17	3.4	191	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B19_17.5
18								EF-B19_17.5X
19					PT		No Recovery	
20		3.5						
21		4	moist	7	PT		Same as above, interbedded with Red-Brown Silty Sand.	
22	4.3	101	wet	8	SP		Gray (Gley1 3/0) very fine to fine SAND, trace Silt, medium dense, wet. No odor.	EF-B19_22.5
23		113						
24								
25					SP		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

PPG - GINT 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-20

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611129.014
Date Started Drilling: 4/18/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682221.139
Date Finished Drilling: 4/19/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 6.3/20 ft
Physical Location: Pacific Avenue		Surface Elevation: 10.7 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	moist	2 3	Fill		Black Asphalt	EF-B20_0.5
2		0					Reddish Brown (5YR 4/3) SILT, little fine angular Gravel and Fill Material (slag, glass, cinders, debris), loose, moist. No odor.	EF-B20_2.0
3		0						EF-B20_2.5
4		0						EF-B20_4.0
5		143						
6		0.3	wet	6	Fill		Black SILT, some Fill Material (cinders, ash, coal) and fine to medium Sand, very soft, wet at 6.3'. No odor.	EF-B20_6.0
7	2.2							EF-B20_7.0
8					Fill		No Recovery	
9								
10		0						EF-B20_10.0
11		0	wet	3	Fill		Reddish Brown (2.5YR 4/3) SILT and fine SANDY SILT, interbedded, soft to medium dense, wet. No odor.	EF-B20_12.0
12	2.3							
13					Fill		No Recovery	
14								
15		1.4						EF-B20_15.0
16		1.8	moist	3 7	Fill OH		Same as above.	
17	2.1						Very Dark Gray (10YR 3/1) Organic SILTY CLAY, little to trace Organics, cohesive, moist. Sulfur odor.	EF-B20_17.0
18					OH		No Recovery	
19								
20		0.3						
21		0.4	wet	8	SP		Gray (Gley1 3/0) very fine to fine SAND (SP), trace Silt, medium dense, wet. No odor.	EF-B20_22.0
22	2							
23					SP		No Recovery	
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
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31								
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33								
34								
35								

Comments: No COPR/GGM identified at this location.

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



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Boring ID: EF-22

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610965.439
Date Started Drilling: 4/19/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682066.301
Date Finished Drilling: 4/19/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.6/23 ft
Physical Location: Pacific Avenue by Al Smith Moving		Surface Elevation: 9.4 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-B22_0.5
2		0	moist to wet	6	Fill		Very Dark Brown (10YR 2/2) to Gray (5Y 5/1) fine to medium SAND, some Silt and Ash, little fine to coarse Gravel and Fill Material (slag, glass, cinders), loose, moist to wet at 5.6'. No odor.	EF-B22_2.0
3		1						EF-B22_2.5
4		1						EF-B22_4.0
5		0.5						EF-B22_5.5
6								
7	1				Fill		No Recovery	
8								
9								
10		0.5						EF-B22_10.0
11		1.1	wet	6	Fill		Gray (5Y 5/1) SILT and ASH, loose, wet. No odor.	EF-B22_12.0
12			wet	3	Fill		Reddish Brown (2.5YR 4/3) SILT and fine SAND, little fine angular Gravel, soft, wet. No odor.	
13	2.1				Fill		No Recovery	
14								
15		0						
16		247	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	
17	5	274						
18		1456						EF-B22_17.5
19		790						EF-B22_17.5X
20		276						
21		347						
22	4.4	289						
23		96.8	moist	7	PT-SP		Interbedded PEAT and Gray (Gley1 3/0) very fine SAND, medium dense, moist. Sulfur odor.	EF-B22_22.5
24			wet	8	SP		Gray (Gley1 3/0) interbedded very fine and fine SAND, loose, wet. Sulfur odor.	
25					SP		No Recovery	
26							End of boring at 25 ft.	
27								
28								
29								
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33								
34								
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Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 11/3/11 14:36 - \\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-97

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 611134.102
Date Started Drilling: 8/11/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682206.028
Date Finished Drilling: 8/11/2011	Core Size: 6 in	Boring Total Depth: 3 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: Parking lot on Pacific Avenue, near Caven Point Avenue		Surface Elevation: 10.7 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	2	Fill		Asphalt and Gravel	
2		0	dry	6	Fill		Black CINDERS and FILL (concrete, brick), dense. No odor.	
3			moist	3	Fill		Brown (7.5YR 4/4) very fine SAND, little fine angular Gravel, loose. No odor.	EF-B97_2.5
4							End of boring at 3 ft.	
5								
6								
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Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 11/3/11 14:36 - \\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-98

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 610971.775
Date Started Drilling: 8/11/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682058.459
Date Finished Drilling: 8/11/2011	Core Size: 6 in	Boring Total Depth: 3 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: Parking lot on Pacific Avenue, near Caven Point Avenue		Surface Elevation: 9.4 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	Fill		Asphalt and Gravel	
2		0	dry	1	Fill		Brick and Concrete slab	
3			dry	3	Fill		Brown (7.5YR 4/4) fine SAND and medium to coarse Gravel, medium dense. No odor.	EF-B98_2.5
4							End of boring at 3 ft.	
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Comments: No COPR/GGM identified at this location.


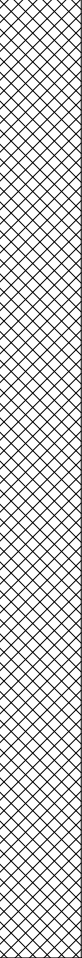


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Boring ID: EF-124

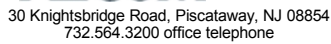
Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60154801	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 611316.125
Date Started Drilling: 9/4/2012 1:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682399.4375
Date Finished Drilling: 9/4/2012 1:15:00 PM	Core Size: 2 in	Boring Total Depth: 2 ft
Logged By: Ben Daniels	Project Manager: Chris Martell	Depth to Water:
Physical Location:		Surface Elevation: 10.9 ft NAVD88 <small>(Note bgs = below ground surface)</small>

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
					1 CONCRETE		CONCRETE	
		0.0	moist	3	FILL		silty SAND, little fine to medium gravel and fill material, (7.5YR 4/3) brown, moist, no odor, angular, Brick, coal.	EF-B124-0.6-1.1

Comments:

PPG - PPG_LOGS.GDT - 9/26/12 15:07 - C:\DOCUMENTS AND SETTINGS\STANCHAKIMMY\DOCUMENTS\PPG - JERSEY GARFIELD AVENUE GROUP OF SITES\RI BORINGS.GPJ



Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 610636
Date Started Drilling: 12/13/2012 9:25:00 AM	Rig Type: NA	Coordinates (NJSPNAD83) y: 682156
Date Finished Drilling: 12/13/2012 10:30:00 AM	Core Size: 6 in	Boring Total Depth: 2.5 ft
Logged By: B. Daniels	Project Manager: Chris Martell	Depth to Water: NA
Physical Location: Caven Point Ave near Halladay St		Surface Elevation: 10.4 ft NAVD88

[illegible][illegible]

PPG - PPG_LOGS.GDT - 10/31/13 13:26

PPG - GINT STD US LAB.GDT - 11/3/11 14:48 - \\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: ICO-08 / SCB-12

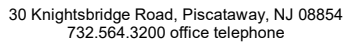
Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610546.215
Date Started Drilling: 5/12/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682222.578
Date Finished Drilling: 5/12/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.0 ft
Physical Location: Southern Canal Area		Surface Elevation: 18.6 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 Number
1		0	dry	3	Fill		Brown (7.5YR 4/3) fine to coarse SAND, some fine to medium Gravel and Fill (brick, ash, glass, slag), loose. No odor.	ICO-8_0.5
2		0						ICO-8_2.0
3			moist	3	Fill		Brown (7.5YR 4/3) fine to coarse SAND, some fine to medium angular Gravel, little Fill (brick, glass, slag, debris), trace organics, medium dense. No odor.	
4		0						ICO-8_4.0
5		0	moist	3	Fill		Reddish Brown (5YR 4/3) fine to medium SAND, little Silt, some fine Gravel, trace Fill (brick, coal, ash), medium dense. No odor.	
6			moist to wet wet	6	Fill		Brown SILT interbedded with Black ASH and CINDERS, trace fine angular Gravel, loose to med dense. No odor. Wet at 5.3'.	ICO-8_6.0
7	1						No Recovery	
8								
9								
10		0						ICO-8_10.0
11			wet	3	Fill		Black fine to medium SAND, some Silt, little Fill (cinders, ash, coal fragments), medium dense. No odor.	
12			wet	3	Fill		No Recovery	
13	1.2							
14								
15		2						ICO-8_15.0
16		0.5	wet	3	Fill		Brown (7.5YR 4/3) SILT and fine to medium SAND, little coarse Sand, soft/loose. No odor.	ICO-8_16.0
17		0.5						
18	4.3	1.2	wet	3	Fill		Black stained SILT, trace Organics, fine angular Gravel, and Clay, soft. Slight coal tar odor.	
19			moist	7	PT		Dark Brown (10YR 3/3) PEAT, organics, little Silty Clay, semi-cohesive, medium stiff. Sulfur odor.	
20		0.1	moist	7	PT		No Recovery	
21			moist	9	CL		Dark Gray (2.5yr 4/1) Silty CLAY, trace organics, cohesive, medium stiff. Sulfur odor.	
22	0.3		moist	9	CL		No Recovery	
23								
24								
25								
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No GGM/COPR identified at this location.



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

PPG - 2012-09 RA PPG LOGS_A.GDT - 12/15/20 12:53

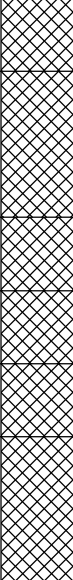
Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610551.0169
Date Started Drilling: 11/4/2020 11:00:00 AM	Rig Type: Mini Excavator	Coordinates (NJSPNAD83) y: 682313.9619
Date Finished Drilling: 11/4/2020 12:30:00 PM	Core Size: 2x6 ft	Boring Total Depth: 6 ft
Logged By: Tarique Islam	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: Cayen Point Rd		Surface Elevation: 14.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0		FILL		fine to coarse SAND, some coarse gravel, little fill debris (ash, bricks, ceramic and metal fragments), trace silt, (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining	
3		0.0		FILL		fine to medium SAND, some coarse gravel, little silt and fill debris (ash, bricks, ceramic and metal fragments), (7.5YR 4/2) brown, loose, dry to moist, no odor, no staining	
4	3						P3BS-PDI-TP-1+50-80R-3.7-4.2
5							
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: Overburden soil from -3.0 ft to 0.0 ft bgs.







Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60635148	Drilling Method: Test pit	Coordinates (NJSPNAD83) x: 610681.634
Date Started Drilling: 11/6/2020 12:00:00 PM	Rig Type: Mini Excavator	Coordinates (NJSPNAD83) y: 682177.812
Date Finished Drilling: 11/6/2020 1:00:00 PM	Core Size: 3x6 ft	Boring Total Depth: 4 ft
Logged By: Alan Buob	Project Manager: Cameron Dixon	Depth to Water: NA
Physical Location: Halladay St/Caven Point Rd Intersection		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
<div><div></div><div></div><div>1</div><div></div><div>2</div><div></div><div>3</div><div></div><div>4</div></div>	4	0.0	dry to moist	FILL		Topsoil, vegetation, roots, some fine to coarse sands, little coarse gravel	
			dry	FILL		fine to coarse SAND, some coarse gravel, little cobbles and ash, (7.5YR 3/2) dark brown, dry, slight petroleum odor	
			dry	FILL		fine to coarse SAND, some coarse gravel and fill debris (bricks, metal glass and slag, little cobbles and ash, (7.5YR 3/2) dark brown, dry, slight petroleum odor	
			dry to moist	FILL		coarse SAND, some cobbles and debris (bricks, glass, metals, wood fragments and ash), little coarse gravel, dry to moist	
			dry to moist	FILL		coarse SAND, with large cobbles and wood pieces, some mottled blue-green sands, little gravel, GGM and 2x3 inch conglomerates with light green staining (chromium-like staining), (5YR 5/3) reddish brown	
			moist	FILL		coarse SAND, with large cobbles, gravel and fill debris (metals, bricks, ceramics), (7.5YR 3/2) dark brown, (2.5Y 2.5/1) black, moist	
Test pit terminated at 4.0 ft bgs							

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: 60279173	Drilling Method: Soft Dig and Direct Push	Coordinates (NJSPNAD83) x: 611135.8
Date Started Drilling: 7/31/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682223.1
Date Finished Drilling: 8/1/2018	Core Size: 2-inch MacroCore	Boring Total Depth: 10 ft
Logged By: Eric Acs	Project Manager: Bill Spronz	Depth to Water: 9.0
Physical Location: Pacific Avenue		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
		0.0		ASPHALT		ASPHALT	
1				FILL		fine to medium SAND, little rock fragments trace gravel, (7.5YR 6/3) light brown	PAC-CC39A-0.7-1.2
2	5			FILL		Cobbles and gravel encountered above 3.0 ft. fine to medium SAND, little rock fragments, trace gravel, (7.5YR 6/3) light brown	
3							
4							PAC-CC39A-3.4-3.9
5		0.0	moist	FILL		fine to medium SAND, little coarse sand, fine gravel trace coarse gravel, (2.5YR 2.5/3) dark reddish brown, loose to medium dense, moist no odor no staining	
6	5		moist	FILL		fine to coarse SAND, little fine gravel trace crushed brick, crushed concrete, coarse gravel, (5YR 3/3) dark reddish brown, medium dense, moist no odor no staining	PAC-CC39A-5.4-5.9
7							
8							
9			moist	FILL		fine to medium SAND, trace fine gravel trace coarse sand, (5YR 6/4) light reddish brown, medium dense, moist to wet no odor no staining	
10							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig and Direct Push	Coordinates (NJSPNAD83) x: 610880.66
Date Started Drilling: 8/2/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 681983.16
Date Finished Drilling: 8/2/2018	Core Size: 2-inch MacroCore	Boring Total Depth: 15 ft
Logged By: Eric Acs, Brendan Murphy	Project Manager: Bill Spronz	Depth to Water: 9.0
Physical Location: Pacific Avenue		Surface Elevation: 9.6 ft NAVD88






Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT FILL		Asphalt	
2						fine to medium SAND, trace cobbles, trace gravel, trace silt, trace ash, (10YR 3/3) dark brown	
3						fine to medium SAND, little ash, trace cobble, trace gravel, trace silt, (10YR 5/3) brown.	
4						Jackhammer refusal due to heavy slag. Boring relocated approximately 20 ft north and preclear advanced to 5.0 ft bgs.	
5	5	26.0	moist	FILL		fine to coarse SAND, trace ash, trace crushed brick,, (2.5Y 4/1) dark gray, medium dense, moist no odor no staining	
6							
7							
8							
9							
10							
11	5	6					PAC-Y50A-10.8-11.3
12							
13							
14							
15							

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

Comments:



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Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	5	0.0		ASPHALT FILL		ASPHALT	PAC-Z46A-3.4-3.9 PAC-Z46A-3.8-4.3
1					fine to medium SAND, trace silts, trace gravel, (7.5YR 3/2) dark brown		
2							
3			FILL		fine to medium SAND, trace silts, trace gravel, trace ash, (7.5YR 3/2) dark brown		
4			FILL		fine to medium SAND, little ash, trace silts, trace gravel, trace slag, (7.5YR 3/2) dark brown		
5				FILL		fine to medium SAND, trace silts, trace gravel, (7.5YR 3/2) dark brown	

Comments:

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/3/18 09:58

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610550.6
Date Started Drilling: 8/23/2012 10:28:00 AM	Rig Type: NA	Coordinates (NJSPNAD83) y: 682239.7
Date Finished Drilling: 8/23/2012 1:30:00 PM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: B. Daniels	Project Manager: Chris Martell	Depth to Water: 6.4 ft
Physical Location: Southern Morris Canal		Surface Elevation: 17.4 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	5	0.4	dry	3	FILL		Very dark grayish brown (10YR 3/2) fine to coarse SAND, little Silt, little fine to coarse angular Gravel, little Fill Material (glass, wood fragments, debris), dry, no odor.	SCB-16-0.0-0.5
2		0.0	dry	3	FILL		Reddish brown (2.5YR 4/3) fine to coarse SAND, some fine to coarse angular Gravel, little Fill Material (wood fragments, debris), trace Silt, dry, no odor.	
3		1.3	dry	3	FILL		Brown (7.5YR 4/2) fine to medium SAND, little fine to coarse angular Gravel, little Fill Material (wood fragments, brick, debris), dry, no odor.	
4		0.0	dry	6	FILL		Gray (7.5YR 5/1) FILL MATERIAL (ash, cinders, coal, glass, debris), dry, no odor.	
5		0.0	dry	3	FILL		Dark gray (7.5YR 4/1) fine to coarse SAND, little Silt, little fine to medium angular Gravel, little Fill Material (slag, brick, wood fragments), dry, no odor.	
6	2.4	29.2	moist	3	FILL		Gray (7.5YR 5/1) fine to medium SAND, some fine to medium angular Gravel, little Fill Material (wood fragments, asphalt), dense, moist, moderate hydrocarbon odor.	SCB-16-4.0-4.5
7		0.0	moist	3	FILL		Very dark gray (5YR 3/1) SILT and coarse subangular GRAVEL, medium stiff, moist to wet at 6.4 ft, no odor.	
8		30.2	wet	3	FILL		Very dark gray (5YR 3/1) SILT, little fine to coarse Sand, little Fill Material (glass, wood fragments), wet, slight hydrocarbon odor.	
9					FILL		NO RECOVERY	
10					FILL			
11	2.3	0.0	wet	3	FILL		Very dark gray (5YR 3/1) SILT, trace wood fragments, soft, wet, no odor.	SCB-16-10.0-10.5
12		0.0	wet	3	FILL		Reddish brown (5YR 4/3) SILT, little fine Sand, soft, wet, no odor.	
13		1.4	wet	3	FILL		Black (5YR 2.5/1) clayey SILT and fine to coarse SAND, little fine angular Gravel, soft, wet, moderate hydrocarbon odor.	
14					FILL		NO RECOVERY	
15					FILL			
16	2.6	0.0	moist	3	FILL		Black (5YR 2.5/1) CLAY, soft, moist, no odor.	SCB-16-16.0-16.5
17		0.8	moist	3	FILL		Black (5YR 2.5/1) FILL MATERIAL (slag, wood fragments), dense, moist, slight hydrocarbon odor.	
18		0.0	moist	3	FILL		Black (5YR 2.5/1) CLAY, little wood fragments, soft, moist, no odor.	
19					FILL			
20							Reddish brown (2.5YR 4/3) fine to coarse SAND, little Silt, trace shells, medium dense, moist, no odor.	
							NO RECOVERY	

Comments: No COPR/GGM identified.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: SCB-17

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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: 610563.06
Date Started Drilling: 8/23/2012 8:00:00 AM	Rig Type: NA	Coordinates (NJSPNAD83) y: 682227.9
Date Finished Drilling: 8/23/2012 10:10:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: B. Daniels	Project Manager: Chris Martell	Depth to Water: 5.5 ft
Physical Location: Southern Morris Canal		Surface Elevation: 17.6 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	5	0.0	dry	2	FILL		ASPHALT	SCB-17-2.0-2.5
2		0.0		3	FILL		Brown (7.5YR 4/2) fine to coarse SAND, little Silt, little fine to coarse angular Gravel, little Fill Material (glass, brick, coal, debris), dry, no odor.	
3		0.0	dry	3	FILL		Dark gray (7.5YR 4/1) fine to coarse SAND, little Silt, little fine to coarse angular Gravel, little Fill Material (ash, cinders, ceramic, wood fragments, debris), dry, no odor.	SCB-17-4.0-4.5
4		0.0	moist	3	FILL		Dark brown (7.5YR 3/2) fine to coarse SAND, little Silt, little fine to coarse angular Gravel, little Fill Material (brick, wood fragments, glass, debris), moist, no odor.	
5	2	0.0	moist	3	FILL		Dark gray (7.5YR 4/1) fine to coarse SAND, little Silt, little fine to medium angular Gravel, medium dense, moist to wet at 5.5 ft, no odor.	SCB-17-10.0-10.5
6		0.0	wet	3	FILL		Olive (5Y 4/3) clayey SILT, soft, wet, no odor.	
7					FILL		NO RECOVERY	
8								
9	2.5	0.0	wet	3	FILL		Dark gray (7.5YR 4/1) fine to coarse SAND, little silt, little fine to medium angular Gravel, little Fill Material (wood fragments, brick, metal, debris), medium dense, wet, no odor.	SCB-17-12.0-12.5
10					FILL		NO RECOVERY	
11								SCB-17-16.0-16.5
12								
13	2.5	0.0	wet	3	FILL		Black (5YR 2.5/1) fine to medium silty SAND, little fine to medium angular Gravel, medium dense, wet, no odor.	SCB-17-16.0-16.5
14		8.1	moist	7	PT		Dark yellowish brown (10YR 3/4) PEAT, trace organics, stiff, moist, slight organic odor.	
15					PT		NO RECOVERY	
16								
17								
18								
19								
20								

Comments: No COPR/GGM identified.

PPG - PPG_LOGS.GDT - 10/31/13 13:26



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Boring ID: SCB-18

Page: 1

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 610578.1
Date Started Drilling: 8/22/2012 11:25:00 AM	Rig Type: NA	Coordinates (NJSPNAD83) y: 682214.8
Date Finished Drilling: 8/23/2012 8:52:00 AM	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: Ben Daniels	Project Manager: Chris Martell	Depth to Water: 6 ft
Physical Location: Southern Morris Canal		Surface Elevation: 17.7 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 ID
1	5	0.0	dry	3	FILL		Dark brown (7.5YR 3/2) silty SAND, little fine to coarse angular Gravel, little Fill Material (glass, brick, debris), trace organics, dry, no odor.	
2		3.6	moist	3	FILL		Dark gray (7.5YR 4/1) silty SAND, little fine to coarse angular Gravel, little Fill Material (coal, brick, debris), moist, slight organic odor.	SCB-18-2.0-2.5
3		7.7	moist	3	FILL		Very dark gray (7.5YR 3/1) silty SAND, little fine to medium angular Gravel, little Fill Material (glass, coal, ash), moist, slight organic odor.	SCB-18-3.0-3.5
4		5.7	moist	3	FILL		Very dark gray (7.5YR 3/1) silty SAND, little fine to coarse angular Gravel, little Fill Material (brick, wood fragments, glass, debris), moist, slight organic odor.	
5	2.4	0.0	moist	3	FILL		Gray (7.5YR 5/1) fine to coarse SAND, little Silt, little fine to medium angular Gravel, little crushed fill, dense, moist to wet at 6 ft, no odor.	
6		0.0	wet	3	FILL		Very dark gray (7.5YR 3/1) fine to coarse SAND, little Silt, little fine to medium angular Gravel, dense, wet, no odor.	SCB-18-6.0-6.5
7					FILL		NO RECOVERY	
8					FILL			
9	3.2	0.0	wet	3	FILL		Dark gray (7.5YR 4/1) CLAY, little silt, medium stiff, wet, no odor.	SCB-18-10.0-10.5
10		0.0	wet	3	FILL		Dark brown (7.5YR 3/2) fine to medium SAND, dense, wet, no odor.	
11		0.0	wet	3	FILL		Black (5YR 2.5/1) fine to medium angular GRAVEL, little fine to coarse Sand, dense, wet, no odor.	
12		0.0	wet	3	FILL		Very dark brown (7.5YR 2.5/2) clayey SILT, trace coal, stiff, wet, slight organic odor.	
13		0.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) PEAT, trace organics, stiff, moist, slight organic odor.	SCB-18-12.5-13.0
14	3.1				PT		NO RECOVERY	
15		40.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) PEAT, trace organics, stiff, moist, slight organic odor.	
16					PT			
17					PT			
18	3.1				PT			
19					PT			
20					PT			

Comments: No COPR/GGM identified.