

Appendix B

Field Records

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 610559.592
Date Started Drilling: 5/13/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682324.266
Date Finished Drilling: 5/13/2014 12:10:00 PM	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: 10 West		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	0.0			1	CONCRETE		CONCRETE	
	0.0		dry	3	FILL		fine to medium SAND, with cinders, ash, little silty sand, trace coal, medium dense, dry, no odor, no staining.	10W-J45A-0.5-1.0
2	5							10W-J45A-2.5-3.0
3								10W-J45A-4.5-5.0
4								10W-J45A-5.0-5.5
5	4	0.0	moist	3	FILL		SILT, trace debris, (7.5YR 4/2) brown, low plasticity, soft, moist, no odor, greenish staining noted.	10W-J45A-5.5-6.0
6		0.0	wet	3	FILL		ASH, with cinders, little silty sand, (10YR 5/2) grayish brown, wet, no odor, no staining, water table at 6.0 ft bgs.	10W-J45A-6.5-7.0
7								10W-J45A-8.5-9.0
8				NR	NR		NO RECOVERY	
9	5	0.0	wet	3	FILL		fine to medium silty SAND, some glass, little debris, trace coal, (10YR 4/2) dark grayish brown, medium dense, wet, no odor, no staining.	10W-J45A-10.5-11.0
10								10W-J45A-12.5-13.0
11								10W-J45A-14.5-15.0
12	5	0.0	wet	3	FILL		fine silty SAND, trace glass, (10YR 4/2) dark grayish brown, soft, wet, no odor, no staining.	10W-J45A-16.5-17.0
13		0.0	moist	3	FILL		SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	10W-J45A-18.5-19.0
14								10W-J45A-19.7-20.2
15	5	0.0	moist	3	FILL		SILT, trace debris, (10YR 4/2) dark grayish brown, low plasticity, soft, moist, no odor, no staining.	10W-J45A-20.2-20.7
16		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.	
17								
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25								

PPG - PPG_LOGS.GDT - 8/11/14 16:39

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 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		

(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	133-P3B-M46A-1.0-1.5
		0.0		3	FILL			
2	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.	133-P3B-M46A-3.0-3.5
3								
4	5	0.0	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
5								
6	5	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.	133-P3B-M46A-7.0-7.5
7								
8	5	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
9								
10	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
11								
12	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.	133-P3B-M46A-16.0-17.0
13								
14	5	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.	133-P3B-M46A-17.0-18.0
15								
16	5	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.	133-P3B-M46A-18.0-19.0
17								
18	5	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.	133-P3B-M46A-19.0-20.0
19								
20	5	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.	133-P3B-M46A-20.0-21.0
21								

PPG - PPG_LOGS_GDT - 6/18/14 14:02

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610678.738
Date Started Drilling: 9/21/2015 12:00:00 PM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682183.735
Date Finished Drilling: 9/21/2015 12:40:00 PM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: RK	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Site 133 - Halladay Street South		

(Note bgs = below ground surface)

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

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/7/15 14:51

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 610678.738
Date Started Drilling: 11/20/2014 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682183.355
Date Finished Drilling: 11/20/2014 11:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: P3C - P47AR		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0-1		0.0		2	ASPHALT		ASPHALT	
1-2	5	0.0	dry	3	FILL		ASH, trace large gravel, trace coal, (10YR 3/1) very dark gray, loose, dry, no odor, no staining.	
2-3								
3-4		0.0	dry	3	FILL		fine to medium SAND, trace gravel, trace ash, (10YR 4/4) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-P47AR-4.5-5.0
4-5	5	0.0	moist	3	FILL		ASH, trace coal, trace gravel, (10YR 4/1) dark gray, loose, moist, no odor, no staining.	
5-6		0.0	moist	3	FILL		fine to medium SAND, trace gravel, (10YR 4/4) dark yellowish brown, medium dense, moist, no odor, no staining.	133-P3C-P47AR-6.5-7.0
6-7		0.0	moist	3	FILL		ASH, trace coal, (10YR 3/1) very dark gray, loose, moist, no odor, no staining.	
7-8		0.0	dry	3	FILL		fine to medium SAND, trace gravel, (10YR 4/6) dark yellowish brown, medium dense, dry, no odor, no staining.	133-P3C-P47AR-8.5-9.0
8-9	5	0.0	moist	10	SP		UNDno fine to medium SAND, trace large cobbles, (5YR 4/6) yellowish red, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	
9-10								133-P3C-P47AR-10.5-11.0
10-11								133-P3C-P47AR-12.5-13.0
11-12	5	0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/2) very dark grayish brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. PEAT (degraded vegetated material), 60% organic silt, 40% organic fibers, (10YR 3/3) dark brown, low plasticity, medium dense, slightly moist, moderate organic odor, no staining. Soils consistent with MM. SILT, 90% organic silt, 10% organic fibers, (10YR 4/1) dark gray, low plasticity, medium dense, slightly moist, slight organic odor, no staining. Soils consistent with UNDorg.	
12-13		0.0	slightly moist	7	PT			
13-14		0.0	slightly moist	9	OL			
14-15		0.0	slightly moist	9	OL			
15-16	5	0.0	slightly moist	9	OL			133-P3C-P47AR-16.5-17.0
16-17		0.0	slightly moist	9	OL			
17-18								
18-19								
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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611094.5
Date Started Drilling: 8/31/2015 10:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682278.6
Date Finished Drilling: 8/31/2015 11:30:00 AM	Core Size: 2.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 55		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		2	ASPHALT		ASPHALT.	
				3	FILL		degraded ASPHALT, and subbase gravel(Trap Rock),(7.5YR 2.5/1) black, loose, no odor, no staining.	
2	4	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
8		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
10	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
12								135-AA38A-13.0-13.5
14		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
15	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-16.5-17.0
16								135-AA38A-17.0-17.5
17		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.
18		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.	
19								

PPG - 2012-09 RA PPG LOGS_A.GDT - 10/6/15 17:20

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

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: 11.27	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		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
		CONCRETE: Reinforced CONCRETE	0.0 ppm	135-B12B (1.5-2.0)	Cr+6, TAL Metals
2		FILL: Brown medium SAND, some fine to coarse Gravel, little glass fragement.			
		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
6		FILL: Pale Red (2.5YR 6/2) and Gray SILT and fine angular Gravel, Fill materials (ceramics, glass), wet. No odor.			
		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.

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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: 11.27	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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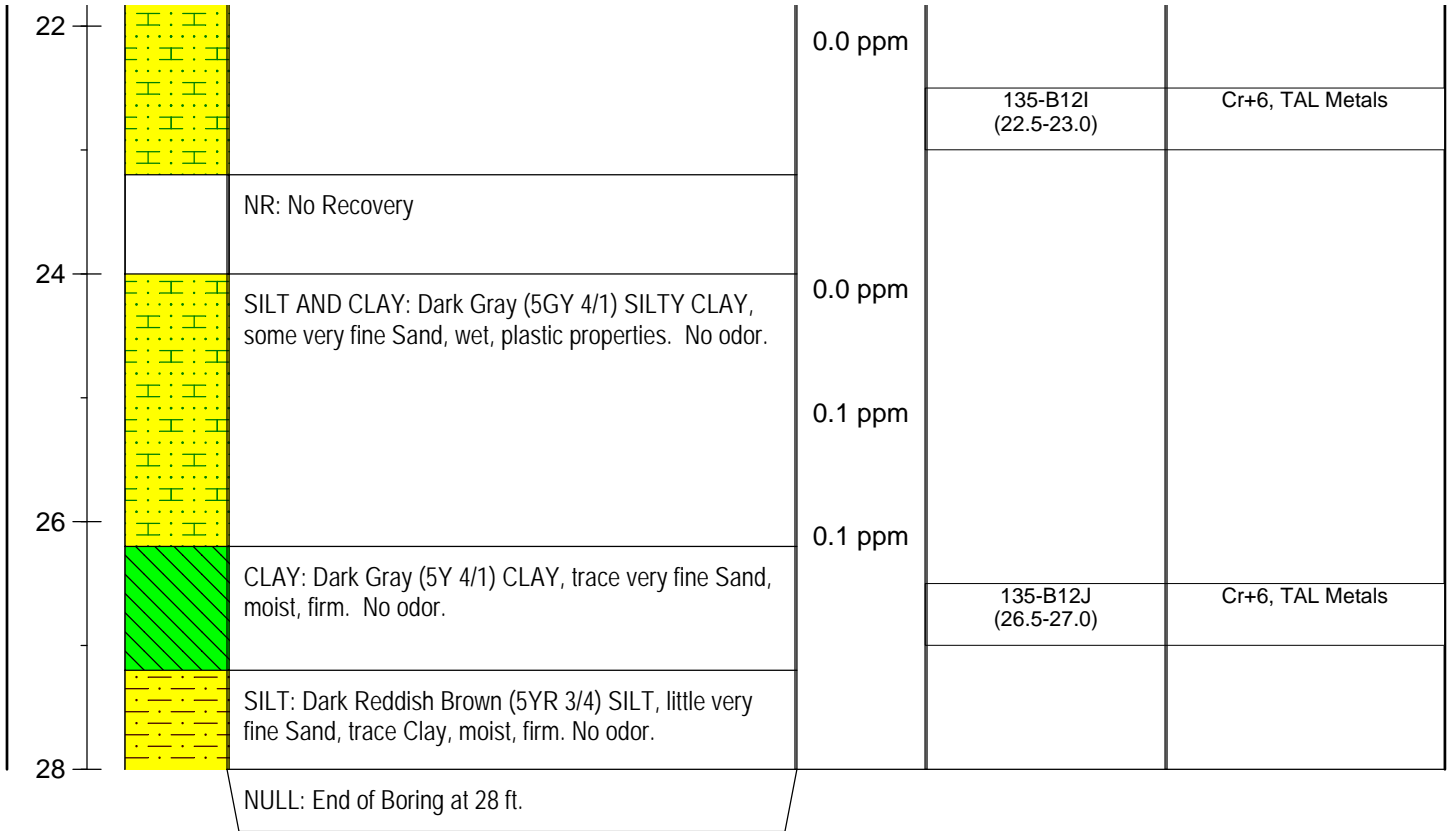
12		PEAT: PEAT (Meadow Mat), moist, firm. Sulfur odor.	2.0 ppm	135-B12F (12.0-13.0)	Cr+6, TAL Metals
14		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	7.8 ppm 4.2 ppm		
16		NR: No Recovery			
18		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	5.2 ppm 1.8 ppm 0.2 ppm	135-B12G (16.0-16.5)	Cr+6, TAL Metals
20		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 0.0 ppm		

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B12	
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: 11.27	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Client: PPG Industries	BORING ID: 135-B13	
Site: Site 135		
Start Date: 12/12/2006	Project: Site Investigation	Page: 1 of 4
	Coordinates: X-610895.3 Y-682090.1	Depth of Boring: 36.00
End Date: 12/20/2006	Elevation: 11.14	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		FILL: Black Topsoil, some roots, little fine Gravel.		135-B13A (0.0-0.5)	Cr+6, TAL Metals
		FILL: Brown coarse SAND, some fine Gravel.	0.2 ppm		
				135-B13B (1.0-1.5)	Cr+6, TAL Metals
2					
		FILL: Dark Grayish Red ASH and SILT, some fine to coarse Gravel, little ceramic pieces, moist.	0.0 ppm		
4			0.1 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.			
			0.2 ppm	135-B13D (4.2-5.3)	Cr+6, TAL Metals
6		FILL: Reddish Brown (5YR 4/3) SILT, little coarse Sand, moist. No odor.			
		FILL: Sandstone (cobble)			
		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		
		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-B13E (8.5-9.5)	Cr+6, TAL Metals
				135-B13ED (8.5-9.5)	

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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: 11.14	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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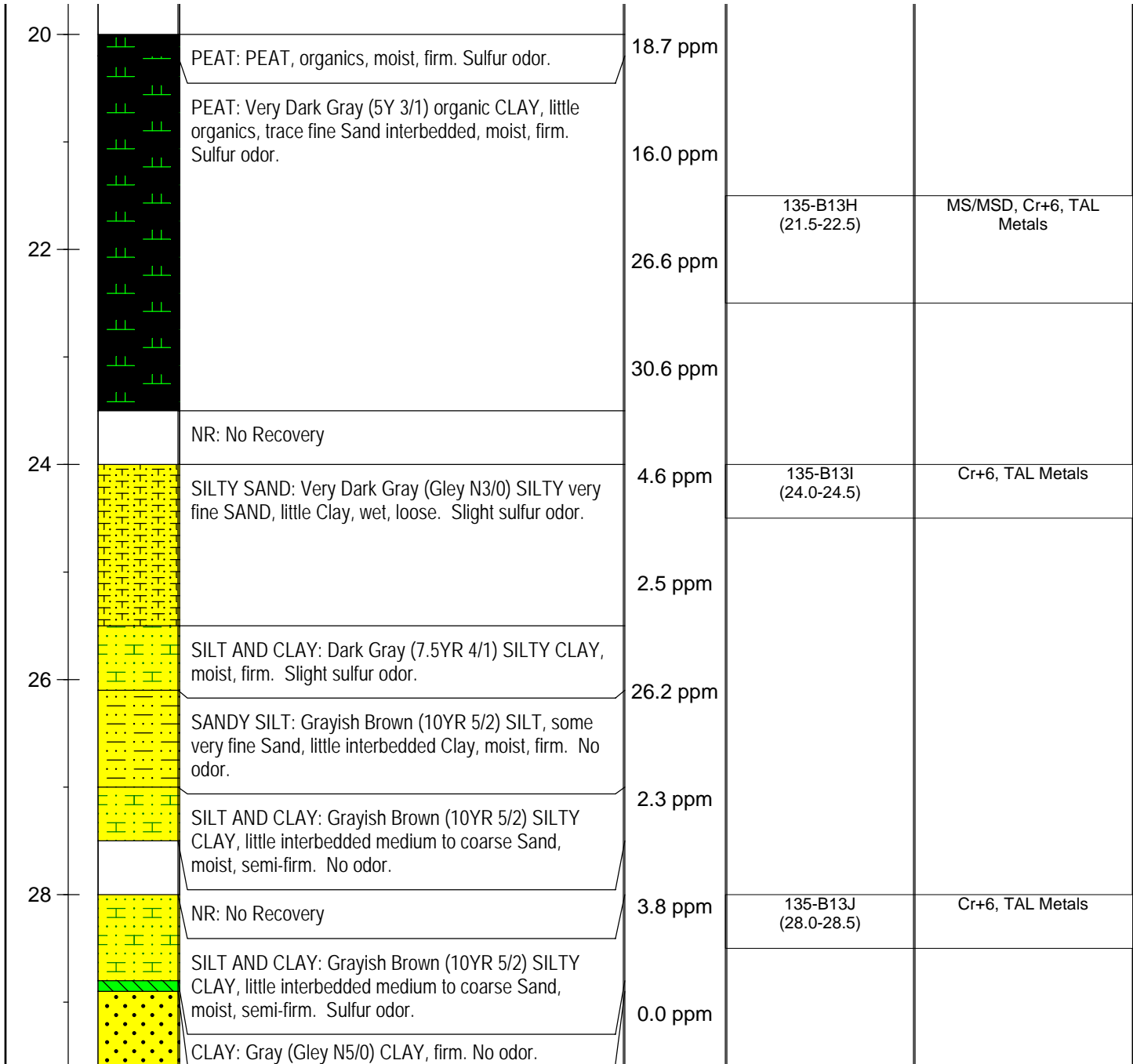
10			0.0 ppm		
		NR: No Recovery			
12		FILL: Brown (7.5YR 5/3) SILTY CLAY, some medium to coarse Sand, little fine rounded Gravel, wet, loose. No odor.	0.0 ppm		
			0.0 ppm		
14		FILL: Dark Reddish Brown (5YR 3/4) SILTY CLAY, trace fine Gravel, moist, firm. No odor.	0.0 ppm	135-B13F (13.5-14.0)	Cr+6, TAL Metals
		FILL: Reddish Brown (5YR 5/3) SILT, some fine to medium Sand, trace Clay, wet to moist, semi-firm. No odor.	0.0 ppm		
		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			

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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: 11.14	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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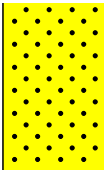
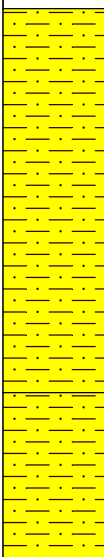


NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 Feet.

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Client: PPG Industries	BORING ID: 135-B13	
Site: Site 135		
Start Date: 12/12/2006	Project: Site Investigation	Page: 4 of 4
	Coordinates: X-610895.3 Y-682090.1	Depth of Boring: 36.00
End Date: 12/20/2006	Elevation: 11.14	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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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.			

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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

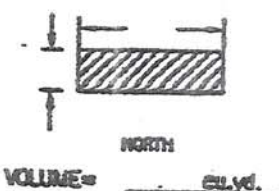
EXCAVATION EQUIPMENT
 CONTRACTOR ENTRIT
 OPERATOR JOE GURNS
 MAKE CAT MODEL 336E
 CAPACITY _____ REACH _____

GROUND ELEV. 892.80 11.2
 TIME STARTED 0920
 TIME COMPLETED 0940

WEATHER 76/107°F CLOUDY

DEPTH	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT QTY. CLASS	REMARK No.
0'	<p>FILL DBA</p> <p style="text-align: center;">AND</p> <p>FILL FINE SAND WITH SILT REDDISH BROWN WET NO ODOR NO VISIBLE CLPW</p> <p style="text-align: center;">AND</p> <p>FILL FINE SAND WITH LITTLE SILT - MOTICLES, COLOR VARIED FROM RED/BROWN TO GREEN/GRAY. WET, NO ODOR NO VISIBLE CLPW</p>	E		
1'		E		
2'		E		
3'		E		
4'		E		
5'		E		
6'		E		
7'		E		
8'		E		
9'				
10'				
11'				
12'				
13'				
14'				

REMARKS: WESTON PRESENT TO OBSERVE THE ABSENCE OF CLPW.

<p>TEST PIT PLAN</p> 	<p>LEGEND:</p> <p>BOULDER COUNT</p> <table style="width: 100%;"> <tr> <th>SIZE RANGE CLASSIFICATION</th> <th>LETTER DESIGNATION</th> </tr> <tr> <td>6"-18"</td> <td>A</td> </tr> <tr> <td>18"-36"</td> <td>B</td> </tr> <tr> <td>36" and Larger</td> <td>C</td> </tr> </table>	SIZE RANGE CLASSIFICATION	LETTER DESIGNATION	6"-18"	A	18"-36"	B	36" and Larger	C	<p>PROPORTIONS USED</p> <p>TRACE (TR.) 0-10%</p> <p>LITTLE (L.) 10-20%</p> <p>SOME (SO) 20-35%</p> <p>AND 35-50%</p>	<p>ABBREVIATIONS</p> <p>F-FINE M-MEDIUM C-COARSE F/M-FINE TO MEDIUM F/C-FINE TO COARSE V-VERY GR.-GRAY BN.-BROWN YEL.-YELLOW</p>	<p>EXCAVATION EFFORT</p> <p>E-EASY M-MODERATE D-DIFFICULT</p> <p>GROUNDWATER</p> <p>ELAPSED TIME TO READING (HRS.) G.W. No Groundwater</p>
SIZE RANGE CLASSIFICATION	LETTER DESIGNATION											
6"-18"	A											
18"-36"	B											
36" and Larger	C											

CA WELLOCKEN TESTPIT

Start Date:
12/12/2006

Project: **Site Investigation**
Coordinates: X-611058.0 Y-682231.8

Page: 1 of 3
Depth of Boring: 32.00

End Date:
12/20/2006

Elevation: 11.77
Drill Subcontractor: EB/TPI

Geologist: P. Kelly, M. Merdinger
Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		CONCRETE: CONCRETE			
1.1		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
2.6		FILL: Brick fragments.	0.6 ppm	135-B14B (2.9-3.4)	Cr+6, TAL Metals
3.4		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
4.6		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		
4.6		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
6.0		NR: No Recovery			
8.5		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
10.1		FILL: Reddish Brown (5YR 4/3) SILT and fine SAND interbedded, moist, firm. No odor.	0.0 ppm		
10.1		NR: No Recovery	0.1 ppm		

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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: 11.77	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

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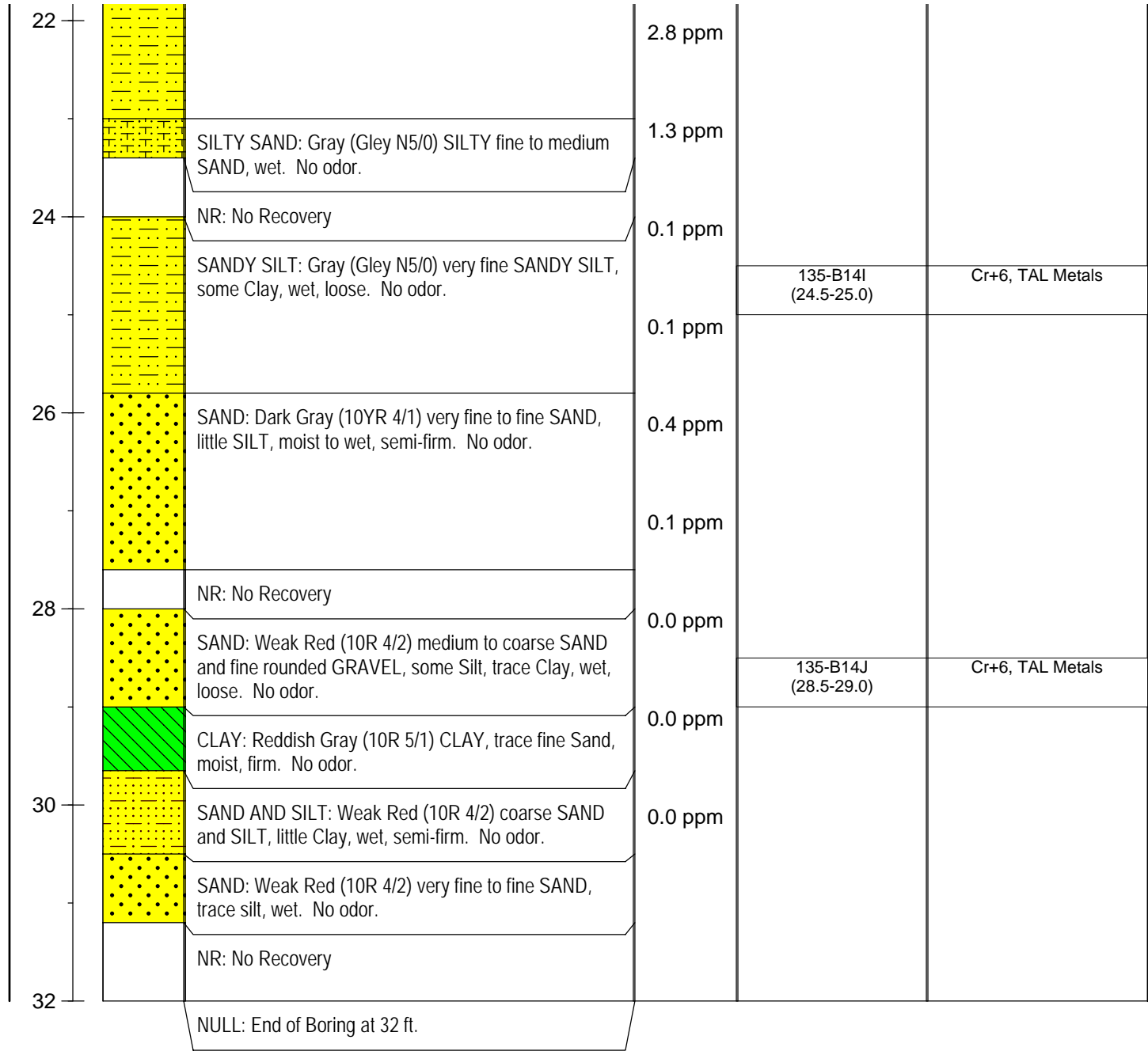
12		FILL: Reddish Brown (5YR 4/3) SILTY CLAY, trace fine Sand and medium Gravel, moist to wet, semi-firm. No odor.	0.0 ppm		
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.1 ppm	135-B14F (12.8-13.3)	Cr+6, TAL Metals
14			3.3 ppm		
		NR: No Recovery			
16		CLAY: Very Dark Gray (5Y 3/1) organic CLAY,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

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B14	
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: 11.77	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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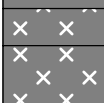





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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B15	
Start Date: 12/12/2006	Project: Site Investigation	Page: 1 of 3
End Date: 12/22/2006	Coordinates: X-611127.9 Y-682298.4	Depth of Boring: 32.00
	Elevation: 12.09	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		ASPHALT: ASPHALT			
		FILL: 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		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
4		FILL: Black SILT, some fine Gravel, little debris. Slight petro odor.	3.2 ppm	135-B15C (4.2-4.5)	Cr+6, TAL Metals
		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		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
		FILL: Brown (7.5YR 4/2) SILT, little coarse Sand and medium angular Gravel, wet, loose. No odor.	0.0 ppm		
10		NR: No Recovery	0.0 ppm		

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B15	
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: 12.09	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

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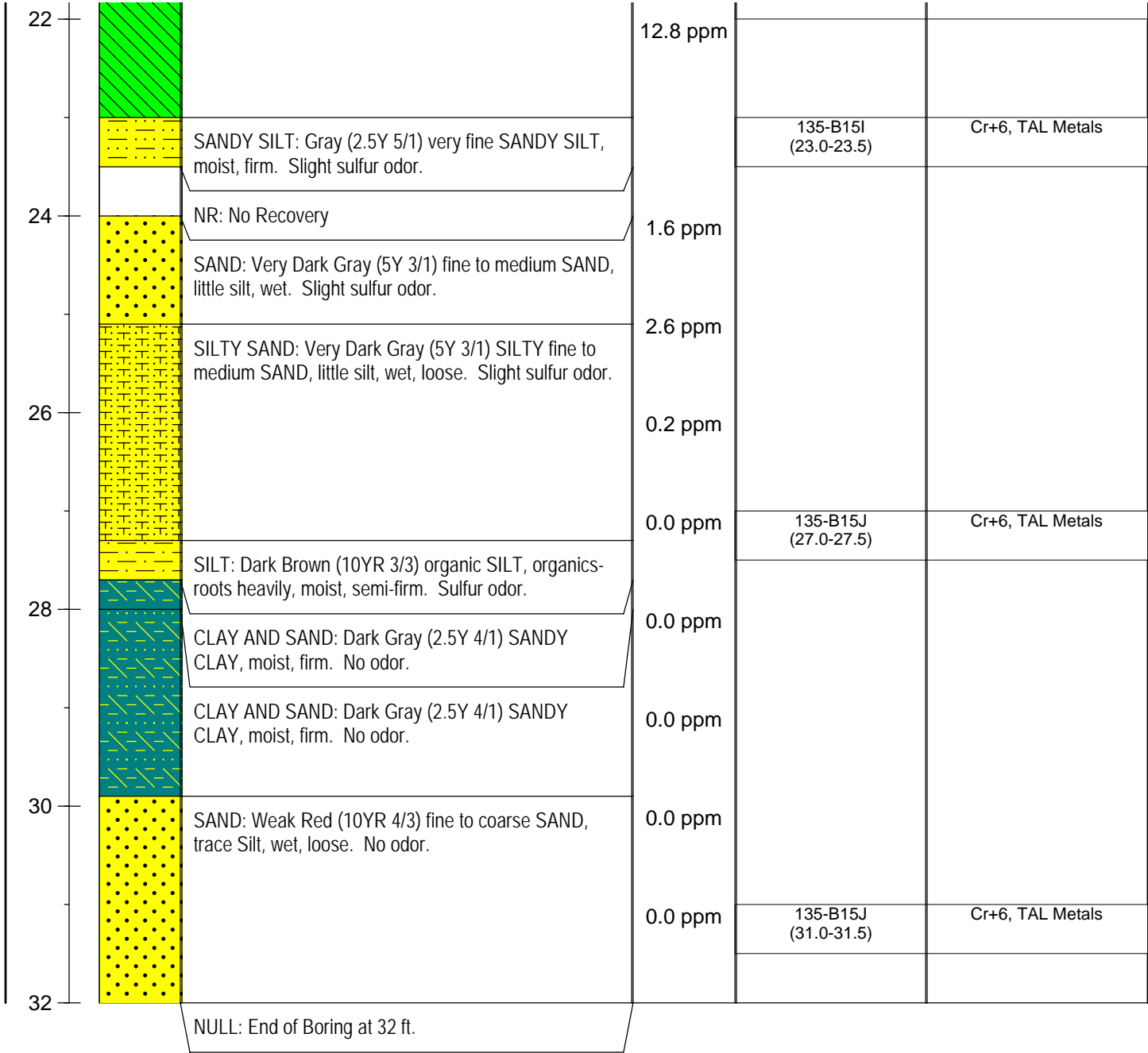
12		FILL: Brown (5YR 4/3) very fine SANDY SILT, little coarse Sand and medium angular Gravel, wet, loose. No odor.	0.0 ppm	135-B15E (12.0-12.5)	Cr+6, TAL Metals
			0.0 ppm		
14		PEAT: PEAT, organics, moist, firm. Sulfur odor.	4.7 ppm	135-B15F (13.7-14.2)	Cr+6, TAL Metals
		NR: No Recovery			
16		CLAY: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

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B15	
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: 12.09	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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Start Date:
12/13/2006

Project: **Site Investigation**
Coordinates: X-611271.1 Y-682434.4

Page: 1 of 3
Depth of Boring: 32.00

End Date:
12/22/2006

Elevation: 11.28
Drill Subcontractor: EB/TPI

Geologist: P. Kelly, M. Merdinger
Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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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			

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B16	
Start Date: 12/13/2006	Project: Site Investigation	Page: 2 of 3
End Date: 12/22/2006	Coordinates: X-611271.1 Y-682434.4	Depth of Boring: 32.00
	Elevation: 11.28	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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12		FILL: Red COBBLE	0.0 ppm	135-B16E (12.2-13.2)	Cr+6, TAL Metals
		PEAT: PEAT, organics, moist, firm. Sulfur odor.		135-B16ED (12.2-13.2)	
		PEAT: Dark Gray (Gley N4/0) organic CLAY, little organics, moist, firm. Sulfur odor.	0.2 ppm		
14			0.2 ppm		
			0.5 ppm		
16		NR: No Recovery			
		PEAT: Dark Gray (Gley N4/0) organic CLAY, little organics, moist, firm. Sulfur odor.		135-B16F (16.2-16.7)	Cr+6, TAL Metals
18					
20			0.1 ppm	135-B16G (20.0-20.5)	Cr+6, TAL Metals
		SILTY SAND: Gray (5Y 5/1) medium to coarse SILTY SAND, little to trace Clay, wet, semi-firm to loose. Slight sulfur odor.	0.7 ppm	135-B16H (20.9-21.4)	Cr+6, TAL Metals

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B16	
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: 11.28	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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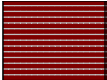







22			1.6 ppm		
		NR: No Recovery	1.5 ppm		
24		SILTY SAND: Gray (5Y 5/1) medium to coarse SILTY SAND, little to trace Clay, wet, loose. No odor.	0.5 ppm		
		SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, wet, loose. No odor.	0.6 ppm		
26		SILT: Dusky Red (2.5YR 3/2) SILT, trace very fine Sand and Clay, 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 Red (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	135-B16J (29.0-29.5)	Cr+6, TAL Metals
30		SAND: Weak Red (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		

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Client: PPG Industries	BORING ID: 135-B17	
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: 11.09	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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0		ASPHALT: ASPHALT			
		FILL: Gray 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 coarse 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		
4		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		

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Client: PPG Industries	BORING ID:	
Site: Site 135	135-B17	
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: 11.09	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

Depth (ft)	Lithology	Description	PID	Sample ID	Sample Parameters
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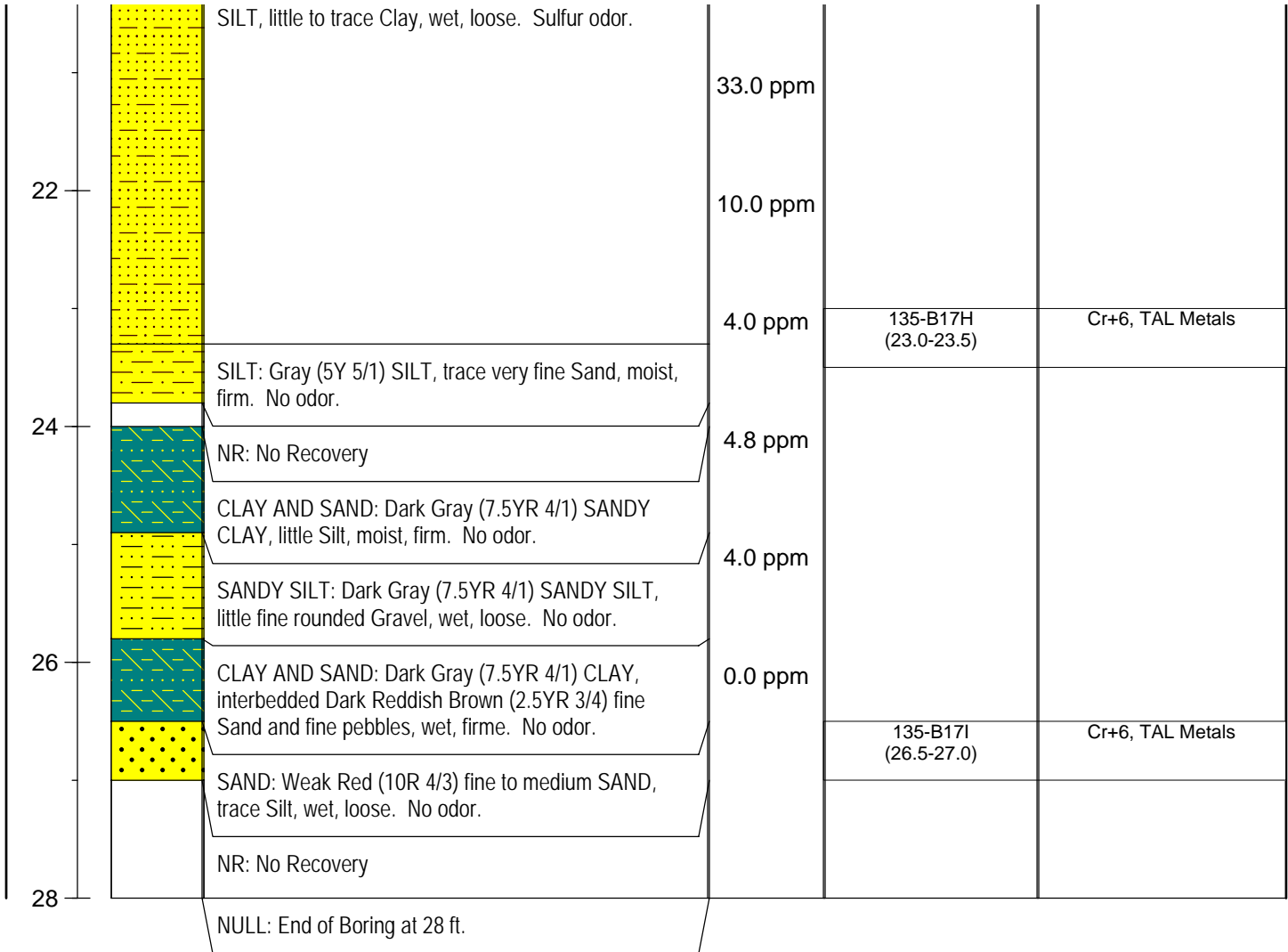
		NR: No Recovery			
12		FILL: Reddish Brown (5YR 4/3) fine to medium SAND and SILT, trace fine Gravel, wet, loose. No odor.	0.0 ppm	135-B17E (120-13.0)	Cr+6, TAL Metals
			0.0 ppm	135-B17ED (120-13.0)	
14			0.0 ppm		
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	3.5 ppm	135-B17F (14.9-15.4)	Cr+6, TAL Metals
16		NR: No Recovery			
		PEAT: PEAT, organics, moist, firm. Sulfur odor.	1.1 ppm		
			3.9 ppm		
18			12.4 ppm		
		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
20		NR: No Recovery			
		SAND AND SILT: Gray (5Y 5/1) very fine SAND and	6.8 ppm		

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

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

Client: PPG Industries Site: Site 133	BORING ID: 135-B17	
	Start Date: 12/13/2006	Page: 3 of 3
Project: Site Investigation	Depth of Boring: 28.00	
Coordinates: X-611334.9 Y-682503.1	Geologist: P. Kelly, M. Merdinger	
End Date: 12/21/2006	Elevation: 11.09	Driller: Heath Kneller
Drill Subcontractor: EB/TPI		

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

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Client: PPG Industries	BORING ID: 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: 10.34	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

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

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

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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: 10.34	Geologist: P. Kelly, M. Merdinger
	Drill Subcontractor: EB/TPI	Driller: Heath Kneller

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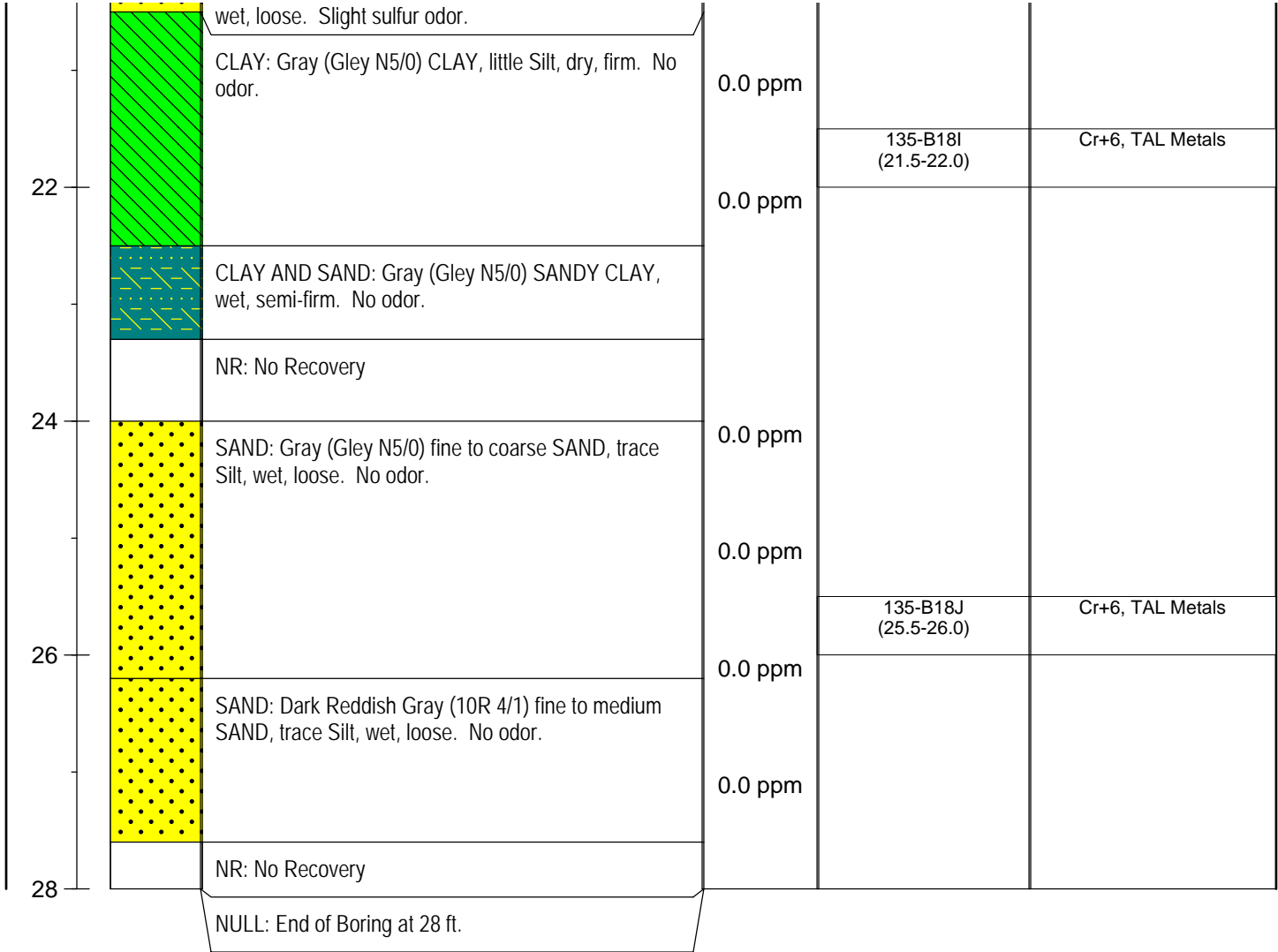
12		FILL: Brown (7.5 YR 4/3) fine to coarse SAND and SILT, little to trace Clay, wet, semi-firm. No odor.	0.0 ppm	135-B18E (12.0-13.0)	MS/MSD, Cr+6, TAL Metals
		FILL: Gray COBBLE	0.4 ppm		
14		PEAT: PEAT, organics, moist, firm. Sulfur odor.	144.0 ppm	135-B18F (13.2-13.7)	Cr+6, TAL Metals
		NR: No Recovery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

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

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

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611161.4
Date Started Drilling: 2/25/2016 12:30:00 PM	Rig Type: Geoprobe 7855DT	Coordinates (NJSPNAD83) y: 682345.3
Date Finished Drilling: 2/25/2016 2:00:00 PM	Core Size: 4.0 in	Boring Total Depth: 20 ft
Logged By: E.Stone	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Narula		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3.5	0.0	dry	ASPHALT	[Solid Black]	ASPHALT, (10YR 2/1) black, dry no odor, no staining. Road sub-base, fine to medium SAND, some gravel, (10YR 4/3) brown, dry no odor no staining.	
		0.0	dry	ASPHALT			
		0.0	dry	FILL	[Cross-hatch]	fine to medium SAND, little coal, trace brick and ash, (5YR 3/2) dark reddish brown, medium dense, dry no odor, no staining.	135-BB35AR-1.0-1.5
2							135-BB35AR-3.0-3.5
3							
4				NR		NO RECOVERY.	
5							
6	5	0.0	moist	FILL	[Cross-hatch]	fine to medium SAND, some ash, trace coal, (5YR 4/3) reddish brown, medium dense, moist to wet, no odor, no staining. Depth to Water @ 5.5 ft bgs. SILT, some gravel, trace fine sand, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-5.0-5.5
		0.0	wet	FILL			135-BB35AR-7.0-7.5
							135-BB35AR-9.0-9.5
							135-BB35AR-11.0-11.5
7							
8							
9							
10							
11		0.0	saturated	FILL	[Cross-hatch]	SILT, little fine sand, trace wood, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	135-BB35AR-13.0-13.5
12							
13							
14							
15							
16		0.0	dry	PT	[Wavy]	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 UNDorg, (80% organic silt, 20% organic fibers), (10YR 4/2) dark grayish brown, moist no odor no staining. Soils consistent with UNDorg.	135-BB35AR-15.0-15.5
17		0.0	moist	OL	[Wavy]		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.

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		

(Note 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. NO RECOVERY.
6	3.5	0.0	dry	FILL		ASH, trace fill debris and coal fragments, (7.5YR 2.5/1) black, dry, no odor, no staining.	135-BB36A-5.5-6.0
7		0.0	wet	FILL		fine to medium SAND, some gravel, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining, Depth to Water 5.5 ft bgs.	
8							135-BB36A-7.5-8.0
9					NR		NO RECOVERY.
10	4.5						135-BB36A-9.5-10.0
11		0.0	wet	FILL		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					NO RECOVERY.	
16		0.5	dry	PT		NO RECOVERY.	
17		0.0	dry	OL		PEAT (80% organic fibers, 20% organic silt), (5YR 3/3) dark reddish brown, stiff, dry slight organic odor no staining. Soils consistent with MM	
18						UNDorg (80% organic silt, 20% organic fibers), (10YR 5/2) grayish brown, medium stiff, dry no odor no staining. Soils consistent with UNDorg	
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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611238.7
Date Started Drilling: 9/1/2015 8:42:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682416.7
Date Finished Drilling: 9/1/2015 9:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - Bld 77		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	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		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.	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.	
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'.	135-CC32A-6.0-6.5
7								135-CC32A-8.0-8.5
8					NR		NO RECOVERY.	
9	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
10								135-CC32A-12.0-12.5
11								135-CC32A-14.0-14.5
12								135-CC32A-15.5-16.0
13		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-16.0-16.5
14	5	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.	
15		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.	
16								
17								
18								
19								

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

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

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

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		2	ASPHALT		ASPHALT	
		0.0	slightly moist	3	FILL		Subbase Gravel(Trap Rock).	135-DD30A-0.5-1.0
		0.0		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	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.	135-DD30A-4.5-5.0
4								
5								
6	4	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-6.5-7.0
7								
8								
9	5	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-8.5-9.0
10								
11								
12	5	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								
14								
15	5	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-12.5-13.0
16								
17								
18	5	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-14.5-15.0
19								
19								
19	5	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.	135-DD30A-15.4-15.9
19								
19								

PPG - 2012-09 RA PPG LOGS_A.GDT - 10/6/15 17:20

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 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)		

(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).		
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									
6	4	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.		
7		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	
8									135-EE27A-8.0-8.5
9					NR		NO RECOVERY.		
10	5	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									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	5	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		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		

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

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 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)		

(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
							4/2) dark grayish brown, moist, moderate organic odor, no staining. Soils consistent with UNDorg.	

PPG - 2012-09 RA PPG_LOGS_A_GDT - 9/28/15 11:40

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

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

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0	dry	2	ASPHALT		ASPHALT.	
		0.0		3	FILL		Subbase Gravel, (Trap Rock).	
2	4	0.0	dry	3	FILL		CINDERS, some brick, fine to medium gravel, (trace red fine sands throughout), (10YR 3/3) dark brown, dry, no odor, no staining.	135-FF23A-1.0-1.5
		0.0	moist	3	FILL		fine to medium sand, some ash, wood fragments, (10YR 2/1) black, moist, slight hydrocarbon odor, hydrocarbon staining.	
3	4							135-FF23A-3.0-3.5
4					NR		NO RECOVERY.	
5	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
6		0.0	moist	3	FILL		SILT, and ash, some fine to medium gravel, (10YR 4/3) brown, moist, no odor, no staining.	
7		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.	135-FF23A-7.0-7.5
8								135-FF23A-9.0-9.5
9								
10	4	0.0	moist	3	FILL		SILT, some fine sand, medium to coarse gravel, (5YR 4/3) reddish brown, moist, no odor, no staining.	135-FF23A-11.0-11.5
11								135-FF23A-11.5-12.0
12		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
13								
14					NR		NO RECOVERY.	
15	5	0.0	moist	9	OL		UNDorg SILT (90% organic silt, 10% organic fibers), (7.5YR 4/2) brown, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
16								
17		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.	
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.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611417.5
Date Started Drilling: 9/14/2015 9:00:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682586.1
Date Finished Drilling: 9/14/2015 10:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: LM	Project Manager: Scott Mikaelian	Depth to Water: 6.4
Physical Location: Former Narula Property - 99 Annex (Street)		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	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								135-FF24A-9.0-9.5
10	4	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		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	5	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.	
16								
17								
18								
19		0.0	moist	8	SM		fine SAND, (10YR 6/1) gray,moist,no odor,no staining. Soils consistent with UNDno.	

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

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

Client: PPG Industries

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: 11.19

State Plane Coordinates: X: 682129.9 Y: 610948

Drilling Method: HSA/Mud Rotary

135-MW1B

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	0.0		Asphalt						
0							Black medium SAND, little fine Gravel, dry.					
0								Brown medium SAND and ASH, little fine Gravel and Ceramic peices, dry.				
0									Grey-Brown ASH, some fine Gravel, little Brick and Coal fragments, wet.			
0										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.		
1											Brown (7.5YR 4/3) SILT, trace very fine Sand, trace coarse Gravel, very loose, moist. No odor.	
4												Brown (7.5YR 4/3) SILT, trace coarse Gravel, very loose, moist. No odor.
3												No Recovery
2												
3												N/A
1												
1												

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

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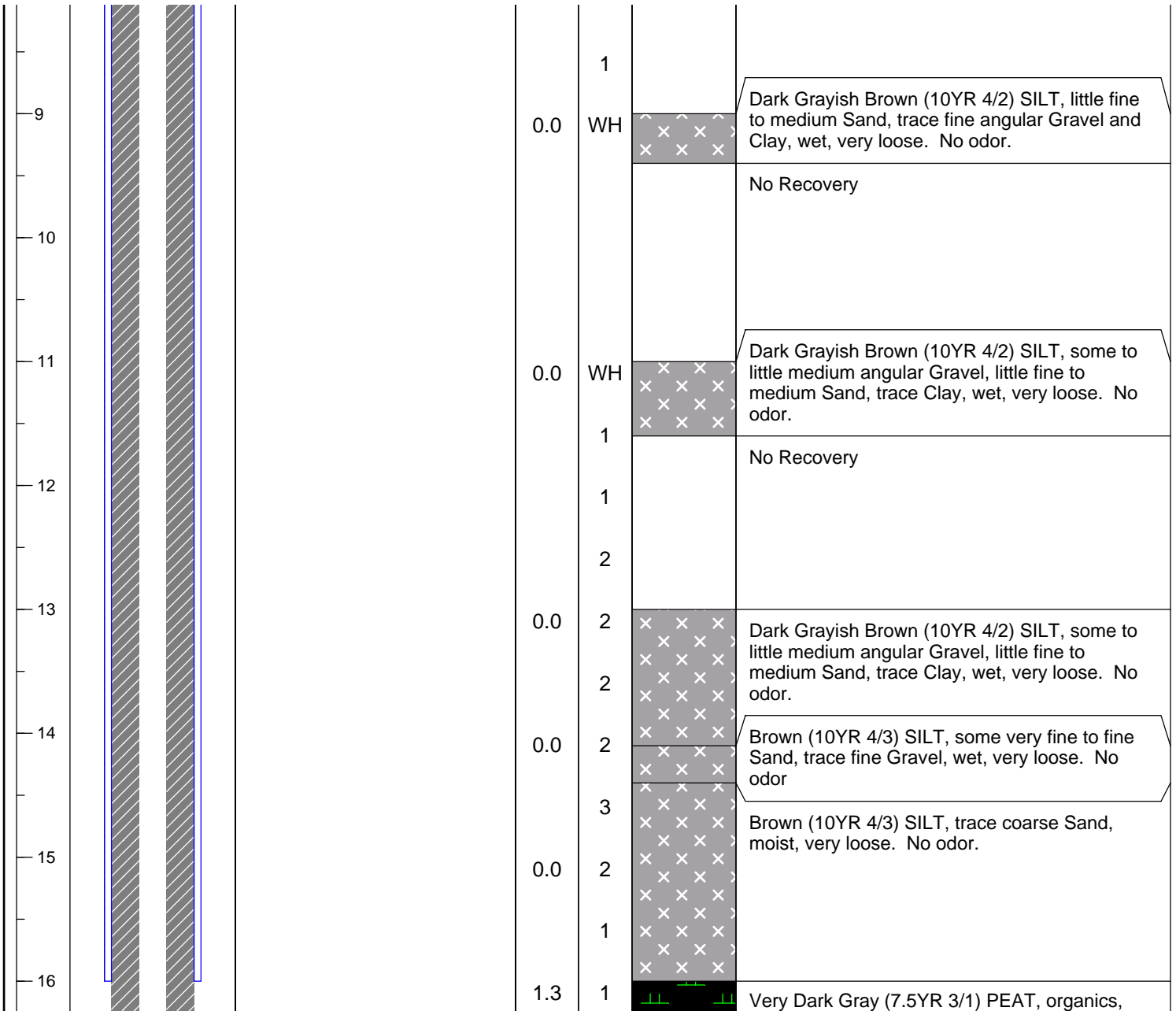
Elevation: 11.19

State Plane Coordinates: X: 682129.9 Y: 610948

Drilling Method: HSA/Mud Rotary

135-MW1B

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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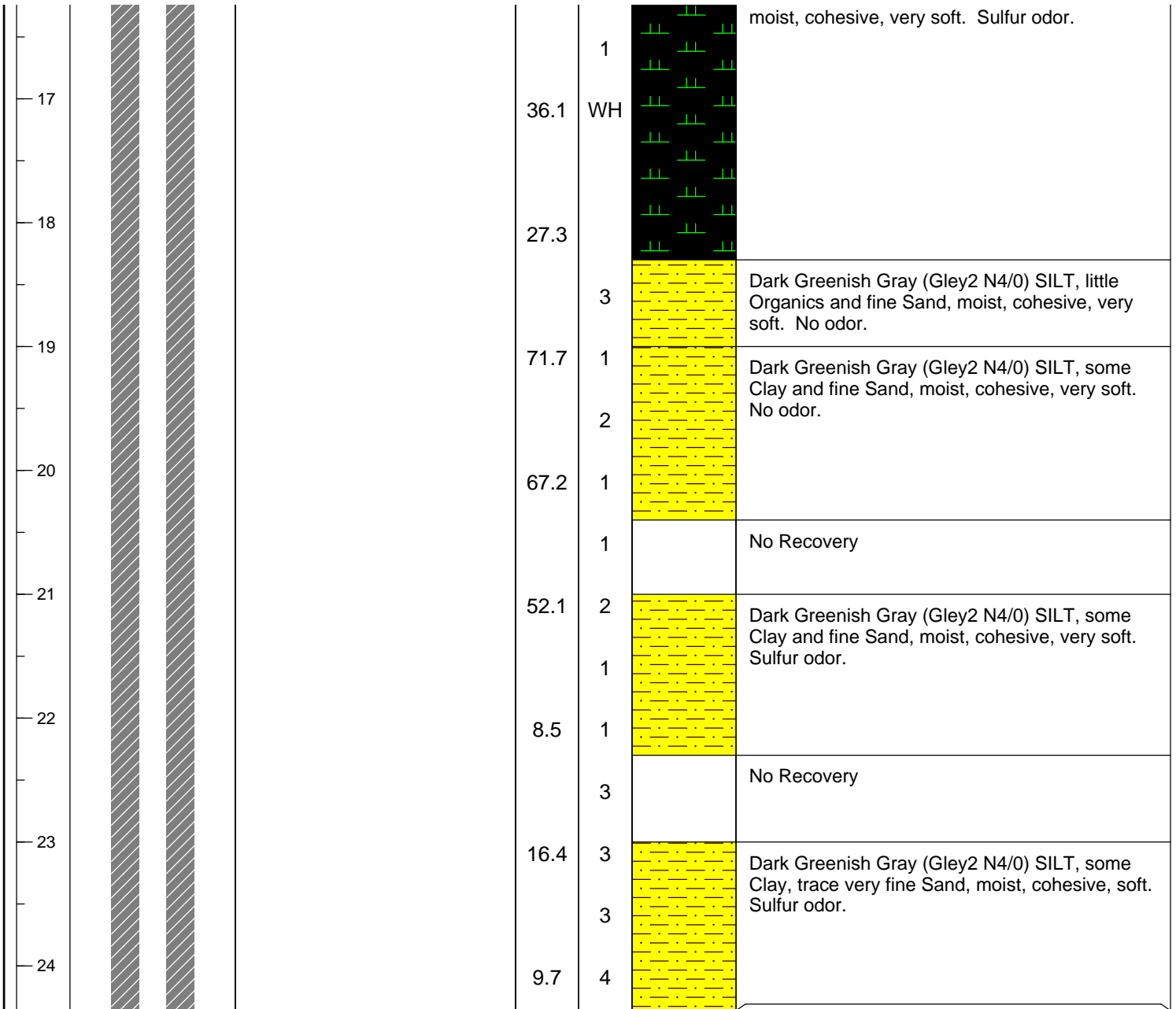
Elevation: 11.19

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Drilling Method: HSA/Mud Rotary

135-MW1B

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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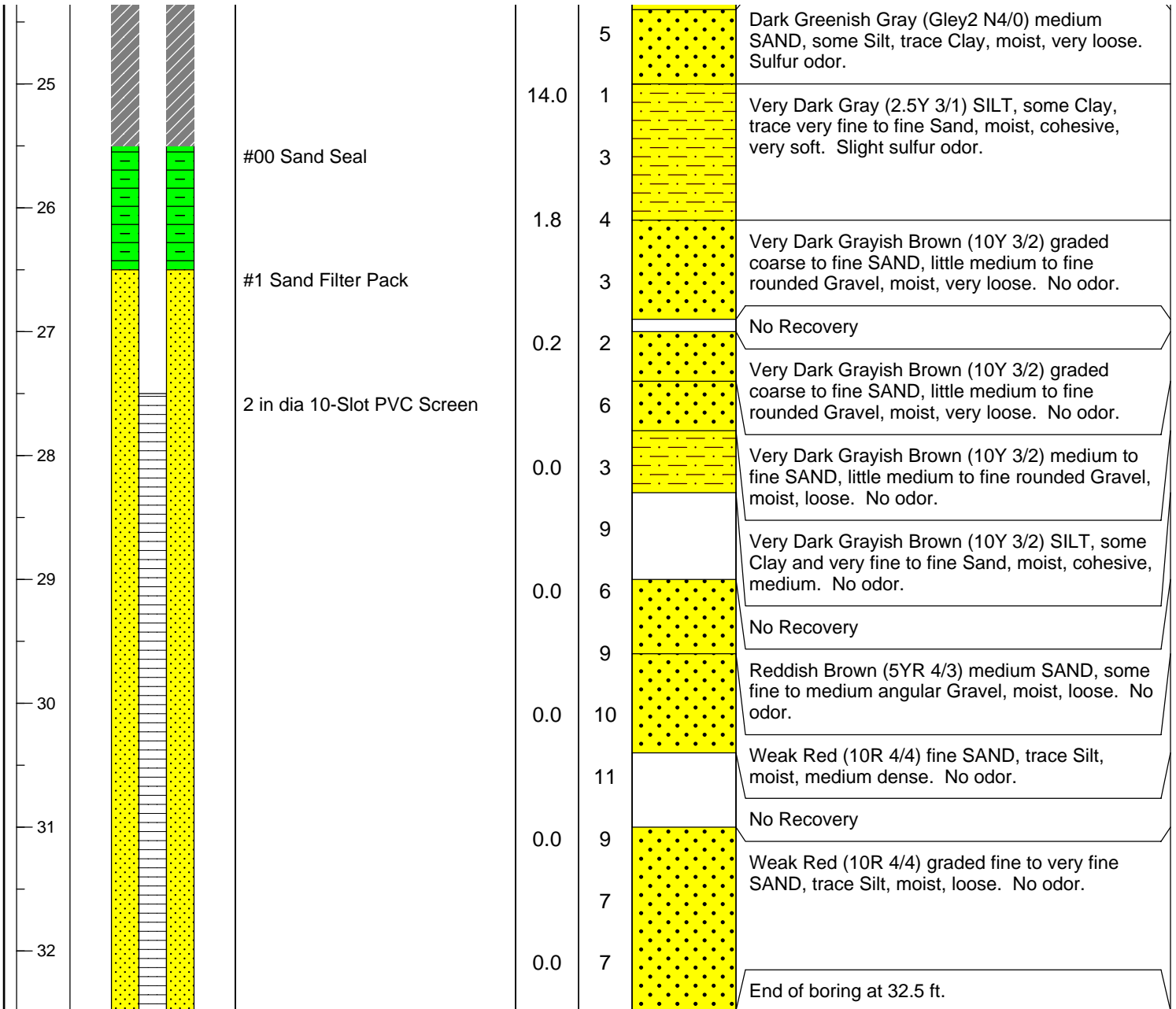
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State Plane Coordinates: X: 682129.9 Y: 610948

Drilling Method: HSA/Mud Rotary

135-MW1B

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

Site: Site 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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
0		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings	0.0			Asphalt
0.6-1.1		135-1CA (0.6-1.1) Cr+6, TAL Metals	0.0			Black medium SAND, little fine Gravel, dry.
1.8-2.3		135-1CB (1.8-2.3) Cr+6, TAL Metals 135-1CBD (1.8-2.3) Cr+6, TAL Metals	0.0			Brown medium SAND and ASH, little fine Gravel and Ceramic peices, dry.
4.5-5.0		135-1CC (4.5-5.0) Cr+6, TAL Metals	0.0			Red-Brown SILT and ASH, some brick fragments, little glass fragments.
5.2-5.7		135-1BE (5.2-5.7) Cr+6, TAL Metals	0.0	1		Grey-Brown ASH, some fine Gravel, little Brick and Coal fragments, wet.
5.8-6.5			0.0	4		Gray-Brown ASH, some fine to medium Gravel, little brick, glass and coal pieces, wet.
6.6-7.3			0.0	4		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.
7.4-8.1			0.0	3		Brown (7.5YR 4/3) SILT, trace very fine Sand, trace coarse Gravel, very loose, moist. No odor.
8.2-8.9			N/A	3		Brown (7.5YR 4/3) SILT, trace coarse Gravel, very loose, moist. No odor.
9.0-9.7			N/A	3		No Recovery
10.4-11.1		N/A	1			
11.8-12.5		N/A	1			
13.2-13.9		N/A	1			

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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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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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
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.
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
15			0.0	3		Brown (10YR 4/3) SILT, trace coarse Sand, moist, very loose. No odor.
16		135-1BI (16.0-17.0) MS/MSD, Cr+6, TAL Metals	1.3	2		
17			36.1	1		Very Dark Gray (7.5YR 3/1) PEAT, organics, moist, cohesive, very soft. Sulfur odor.

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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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

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

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Site: Site 135

Site Location: Jersey City, NJ

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Drilling Company: Eichelbergers

Driller: N. Moyer

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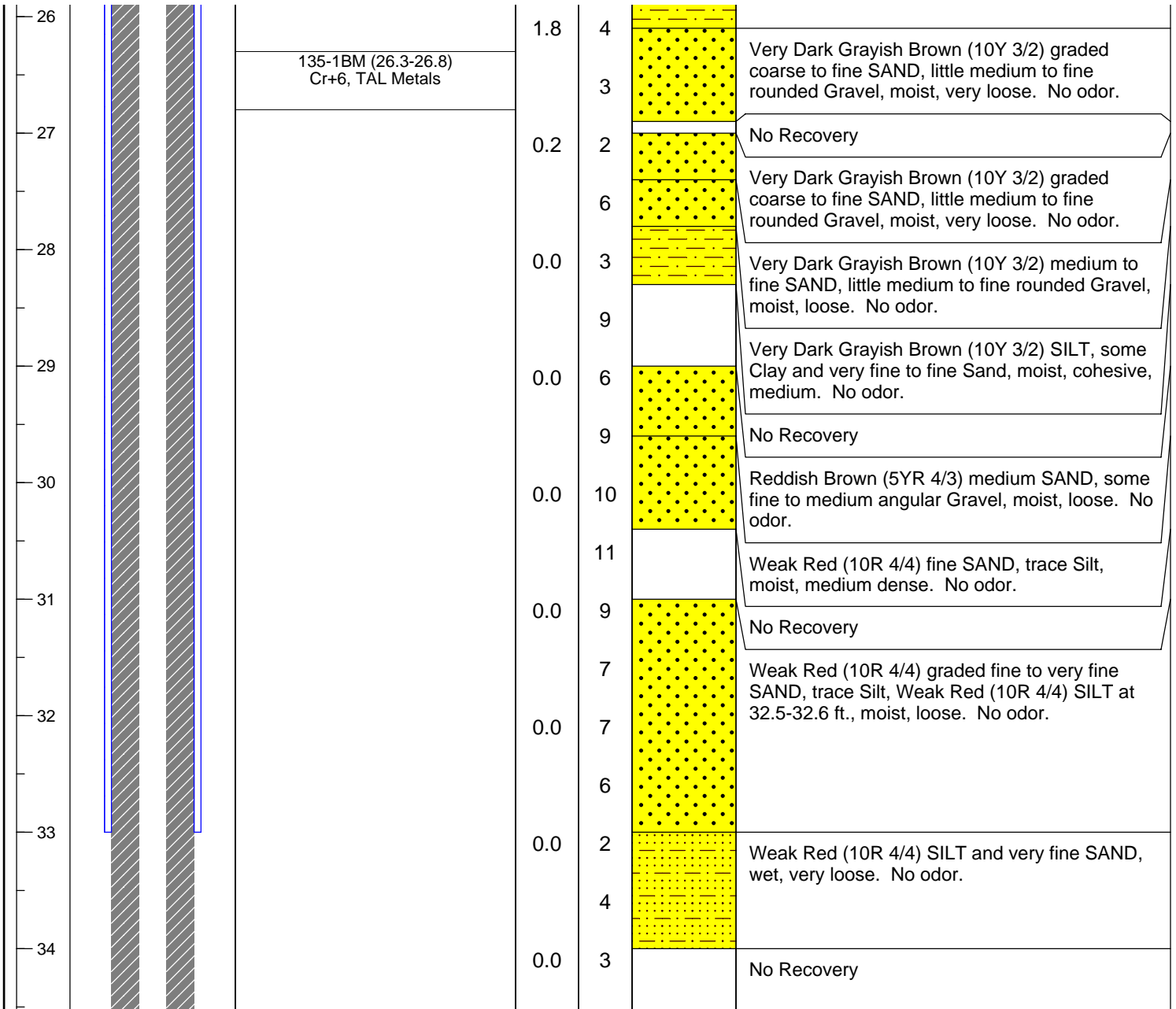
Elevation: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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Site: Site 135

Site Location: Jersey City, NJ

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Drilling Company: Eichelbergers

Driller: N. Moyer

Drilling Date: 12/13/2007

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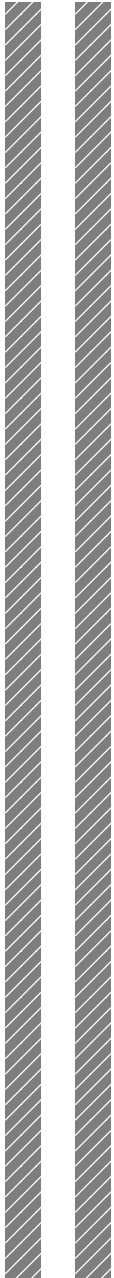
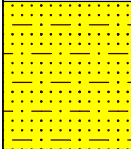
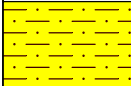
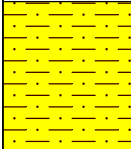
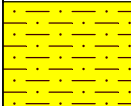
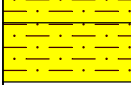

Elevation: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

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

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Site: Site 135

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

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135-MW1C

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

44			0.0	4		Weak Red (10R 4/4) SILT, wet, very loose. No odor.
				4		Weak Red (10R 4/4) SILT, some very fine Sand, wet, loose. No odor.
				5		No Recovery
				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		
				5		
				6		No Recovery
				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
				2		No Recovery
				2		No Recovery
				49		0.0
50			0.0	5		
				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.

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135-MW1C

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

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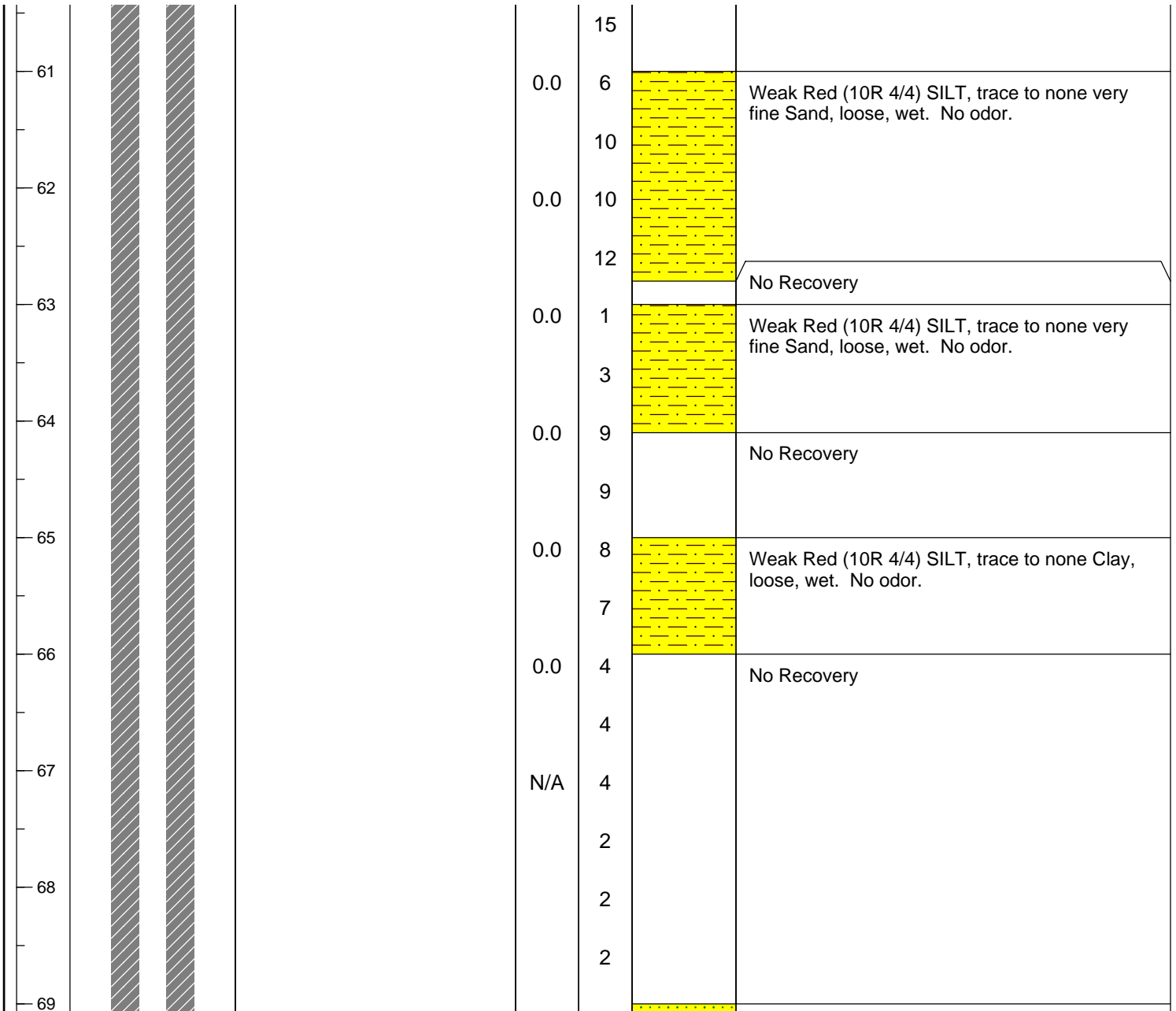
Elevation: 11.14

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Drilling Method: HSA/Mud Rotary

135-MW1C

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

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Client: PPG Industries

Site: Site 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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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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		
71			0.0	2		
				2		
72			0.0	WH		
				1		
73			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, soft, moist. No odor.
				1		
74			0.0	3		
				2		
75			0.0	3		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.
				3		
76			0.0	WH		
				1		
77			0.0	2		
				3		
			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		

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Client: PPG Industries

Site: Site 135

Site Location: Jersey City, NJ

Geologist: P. Kelly, M. Merdinger

Drilling Company: Eichelbergers

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Drilling Date: 12/13/2007

Well Completion Date: 3/30/2007

Elevation: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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78			0.0	2		soft. No odor.
						No Recovery
				4		
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		
				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		

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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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description
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87						
			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.
88				2		No Recovery
				3		
				3		
89			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.
				4		
90			0.0	3		
				3		
91			0.0	2		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.
				2		
92			0.0	2		
				4		
93			0.0	4		No Recovery
				3		
94			N/A	4		
				4		

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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: 11.14

State Plane Coordinates: X: 682131.2 Y: 610951.4

Drilling Method: HSA/Mud Rotary

135-MW1C

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

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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: 9.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0	dry	FILL		ASH, trace coal, trace gravel, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	
2		0.0	dry	FILL		ASH, (10YR 2/1) black, loose, dry, no odor, no staining.	
3		0.0	dry	FILL		ASH, trace coal, trace gravel, trace shell fragments, (10YR 5/2) grayish brown, loose, dry, no odor, no staining.	
4		0.0	dry	FILL		fine to medium SAND, trace gravel, (10YR 4/3) brown, medium dense, dry, no odor, no staining.	
5	5	0.0	slightly moist	FILL		ASH, trace gravel, trace debris, (10YR 4/1) dark gray, medium dense, slightly moist, no odor, no staining.	
6		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
7	5	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
8							
9							
10							
11	5	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-12.0-12.5
12							
13	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-16.6-17.1
14							
15							
16	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
17							
18							
19							
20							

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

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

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/16/16 11:17

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		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
3				NR		NO RECOVERY.	
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.	
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'.	135-SI-DD31A-6.2-6.7
7				NR		NO RECOVERY.	
8				NR		NO RECOVERY.	
9				NR		NO RECOVERY.	
10				NR		NO RECOVERY.	
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				NR		NO RECOVERY.	
13				NR		NO RECOVERY.	
14				NR		NO RECOVERY.	
15				NR		NO RECOVERY.	
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				NR		NO RECOVERY.	
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				NR		NO RECOVERY.	
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 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: 60314351	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611027.2
Date Started Drilling: 8/31/2015 8:25:00 AM	Rig Type: Geoprobe 7822DT	Coordinates (NJSPNAD83) y: 682211.8
Date Finished Drilling: 8/31/2015 10:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: MI	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Former Narula Property - Bld 51 (Street)		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	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.			
2	4	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.	135-Z41-1.5-2.0
3								
4				NR			NO RECOVERY.	135-Z41-3.5-4.0
5	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
6								
7		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
8	5	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
9								
10		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.	
11	5							135-Z41-11.5-12.0
12								135-Z41-12.5-13.0
13		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.
14	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
15		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.	
16								
17	5							
18								
19								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 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.	ASM-T49A-4.0-4.5
4									
5				NR	NR		NO RECOVERY		
6	5	0.0	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			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		0.0	saturated	3	FILL		SILT, some fine to medium sand, little fine to coarse gravel, (5YR 3/3) dark reddish brown, dense, saturated, no odor, no staining.	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-10.5-11.0
12	3		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									
14					NR	NR			
15							NO RECOVERY		

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

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




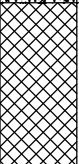


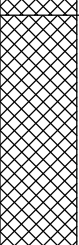

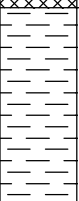
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610781.914
Date Started Drilling: 8/15/2016 10:00:00 AM	Rig Type: TM	Coordinates (NJSPNAD83) y: 682064.246
Date Finished Drilling: 8/15/2016 10:50:00 AM	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. fine to medium SAND, trace silt and fill debris, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.	ASM-U49A-2.0-2.5	
4			moist	3	FILL			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			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	2.5	0.0	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: 610865.8
Date Started Drilling: 8/11/2016 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682091.5
Date Finished Drilling: 8/11/2016 10:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: 8.0
Physical Location: Actual - Smith PDI		Surface Elevation: 14.0 ft NAVD88

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

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 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	4.5	0.0		1	CONCRETE		Concrete sidewalk	
				NR	NR		VOID SPACE	
2			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
3								ASM-W49A-2.0-2.5
4			moist	3	FILL		SILT, trace fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	
5								ASM-W49A-4.0-4.5
6	5	0.0	moist to saturated	3	FILL		fine to medium SAND, trace fill debris, (5YR 2.5/1) black, medium dense, moist, no odor, no staining. 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
8			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
10	3.5	0.0	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								ASM-W49A-10.5-11.0
12			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
13			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.	
14				NR	NR		NO RECOVERY	
15								

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

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

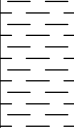
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 610919.5
Date Started Drilling: 8/17/2016 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682131.4
Date Finished Drilling: 8/17/2016 9:50:00 AM	Core Size: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

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

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: 610919.5
Date Started Drilling: 8/17/2016 8:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 682131.4
Date Finished Drilling: 8/17/2016 9:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 25 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 7.0
Physical Location: Actual - Smith PDI		Surface Elevation: 14.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
— 23 —	4		moist	OL		Organic SILT, 80% organic silt, 20% organic fibers, (5Y 5/1) gray, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
— 24 —				NR		NO RECOVERY	
— 25 —							

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

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

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	4.5	0.0		1	CONCRETE		Concrete slab	
				NR	NR		NO RECOVERY	
2			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
3			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
4								ASM-X46A-4.0-4.5
5		0.0	dry	3	FILL		ASH, some cinders, little fill debris, (5YR 3/3) dark reddish brown, loose, dry, no odor, no staining.	
6	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
7								
8								ASM-X46A-8.0-8.5
9								
10		0.0		1	CONCRETE		concrete	
11	5		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
12								ASM-X46A-12.0-12.5
13								
14								ASM-X46A-14.0-14.5
15	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
16								
17								ASM-X46A-18.0-18.5
18								ASM-X46A-18.5-19.0
19			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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/16/16 09:43

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 - 1.0		0.0		1	CONCRETE		Concrete slab	
1.0 - 2.0				NR	NR		NO RECOVERY	
2.0 - 5.0	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 ASM-Y43A-2.0-2.5 ASM-Y43A-4.0-4.5
5.0 - 10.0	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 ASM-Y43A-8.0-8.5
10.0 - 15.0	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-Y43A-10.0-10.5 ASM-Y43A-12.0-12.5 ASM-Y43A-14.0-14.5
15.0 - 16.0		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
16.0 - 17.0			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-Y43A-16.0-16.5
17.0 - 19.0	5							
19.0 - 20.0			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.	

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

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

PPG - 2012-09 RA PPG LOGS - A.GDT - 11/16/16 09:43

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	
1-3	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	
			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	
			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	
6-8	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	
			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	
10-14	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-10.0-10.5	
								ASM-Y44A-12.0-12.5	
								ASM-Y44A-14.0-14.5	
16-18	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-15.5-16.0	
			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
			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.

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/16/16 09:43

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

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	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	
			moist	3	FILL				fine to medium SAND, trace fine gravel and brick, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.
			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	
			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	
				NR	NR		NO RECOVERY		
6 7 8 9	3.5	0.0	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	
				NR	NR		NO RECOVERY	CAR-PDI-GG23A-8.0-8.5	
				NR	NR		NO RECOVERY		
				NR	NR		NO RECOVERY		
10 11 12 13	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	
			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
				NR	NR			NO RECOVERY	
				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 - 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 ft NAVD88

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

Notes:
 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant
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Comments:

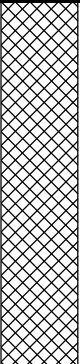




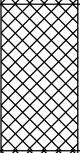
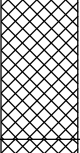

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 610753.11
Date Started Drilling: 8/1/2018	Rig Type: None	Coordinates (NJSPNAD83) y: 682022.02
Date Finished Drilling: 8/1/2018	Core Size:	Boring Total Depth: 5 ft
Logged By: Eric Acs	Project Manager: Bill Spronz	Depth to Water: Not Encountered
Physical Location: Cayen Point Avenue		Surface Elevation: 9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		ASPHALT		ASPHALT	
1	5			FILL		fine to medium SAND, TRACE GRAVEL, (7.5YR 3/2) dark brown	
2				FILL		fine to medium SAND, trace gravel, (5Y 2.5/1) black	
3				FILL		COBBLES, (5Y 2.5/1) black	CAV-T51A-2.4-2.9
4				FILL		fine to medium SAND, some gravel, trace silts, (5Y 2.5/1) black	CAV-T51A-3.1-3.6
5							CAV-T51A-4.4-4.9

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: 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 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	5	0.0		FILL		pre clear	
5-9	5	11.3		FILL		fine to medium SAND, some fine to coarse gravel, brown black, loose, moist, no odor, no staining, trace broken asphalt	
				FILL		fine to medium SAND, trace amounts of coarse sand and fine gravel, saturated, loose to medium dense, brown black, no odor, no staining,	
				FILL		medium to coarse SAND, some fine gravel, black, petroleum odor, slight sheen, loose	
				FILL		fine to medium SANDS, trace silt and fine gravel, reddish brown, medium dense, no odor, no staining	
10-12	5	10.2		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
12-14	5			FILL		fine to medium SANDS, trace coarse gravel, medium dense, brown, no odor, no staining	CAV-W51A-12.0-12.5
14-15				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:



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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611494.743
Date Started Drilling: 4/19/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682560.847
Date Finished Drilling: 4/20/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 4 ft
Physical Location: Pacific and Carteret		

(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		Dark Brown (7.5YR 3/2) fine to medium SAND and SILT, little fine to medium angular Gravel, Organics, and Fill Material (glass, slag, brick), dry, loose. No odor.	EF-B17_0.5		
2		0						EF-B17_2.0		
3		0						EF-B17_2.5		
4		0						EF-B17_4.0		
5		0.3	wet	3	Fill			Brown (7.5YR 4/3) SILT, some fine Sand, little fine to medium Gravel, trace Fill (slag), wet, medium stiff. No odor.		
6	2.1	0.7	wet	6	Fill		Reddish Brown (5YR 4/3) to Black fine to medium SAND, some Cinders, Coal and Ash, trace Glass, medium dense, wet. No odor.	EF-B17_6.0		
7			moist	3	Fill			Brown (7.5YR 4/2) SILT, little fine to medium Sand and Clay, soft, moist. No odor.		
8					Fill			No Recovery		
9										
10		0.1						EF-B17_10.0		
11	3.2	0	moist	3	Fill		Same as above.			
12			0						EF-B17_12.0	
13				moist	7			PT PT	Dark Reddish Gray (2.5YR 3/1) PEAT, Organics, medium stiff, moist. Sulfur odor.	
14							No Recovery			
15		124								
16	2.1	106	moist	7	OH		Very Dark Gray (7.5YR 3/1) Organic SILTY CLAY, cohesive, stiff, moist. Sulfur odor.	EF-B17_17.0		
17					OH			No Recovery		
18										
19										
20		49.2								
21	5	45.7	moist	7	OH		Same as above.			
22			165							
23			10.8							EF-B17_22.5
24			0.4	moist	8			SC		Gray (Gley1 3/0) fine to medium SAND, little Clay, trace Silt, semi-cohesive, medium dense, moist. No odor.
25										
26							End of boring at 25 ft.			
27										
28										
29										
30										
31										
32										
33										
34										
35										

Comments: No COPR/GGM identified at this location.

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



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Boring ID: EF-18

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611410.027
Date Started Drilling: 4/18/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682481.912
Date Finished Drilling: 4/20/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 4/21.2 ft
Physical Location: Pacific, near Carteret		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number		
1		0	moist	3	Fill		Grass and Topsoil Brown (7.5YR 4/2) fine to medium GRAVEL, little Silt and Fill Material (slag, metal, debris), loose, moist. No odor.	EF-B18_0.5		
2		0		3				EF-B18_2.0		
3		0		EF-B18_2.5						
4		0		EF-B18_4.0						
5		0.1								
6	1.6	0.4	wet	3	Fill		Reddish Brown (2.5YR 4/3) fine SAND and coarse SAND, some Silt, little fine Coal fragments, medium dense to loose, wet. No odor. No Recovery	EF-B18_6.0		
7				Fill						
8										
9										
10		0						EF-B18_10.0		
11	1.8	0	wet	3	Fill		Reddish Brown (2.5YR 5/3) very fine SAND, little Silt, trace fine Black Sand, loose, wet. No odor. No Recovery	EF-B18_11.5		
12				Fill						
13										
14										
15		0						EF-B18_15.0		
16	4.2	0	wet	3	Fill		Same as above.	EF-B18_16.0		
17			0						EF-B18_16.0X	
18			105							EF-B18_17.5
19				moist	7			OH		Dark Reddish Gray (2.5YR 3/1) Organic SILTY CLAY, some Roots/Organics, cohesive, stiff, moist. Sulfur odor. No Recovery
20		76		OH						
21	3	81	moist	7	OH		Same as above.			
22			0.1	wet	8			SM		Gray (Gley1 3/0) very fine to fine SAND, little Silt, trace interbedded Clay, loose to medium dense, wet. Sulfur odor.
23					SM					
24								SM		No Recovery
25							End of boring at 25 ft.			
26										
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\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L



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

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	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. Black fine to coarse SAND, GRAVEL and Fill Material (slag, ash, cinders), very loose, dry. No odor.	EF-B19_2.0	
3		0	dry	6	Fill			EF-B19_2.5	
4		0						EF-B19_4.0	
5		24.2							
6	1.5	98.6	wet	3	Fill		Black to Dark Reddish Gray (5YR 4/2) SILT and fine to medium SAND, little fine angular Gravel and Concrete, trace Coal, loose, wet. Napthalene odor.	EF-B19_6.0	
7					Fill		No Recovery		
8									
9									
10		33.4						EF-B19_10.0	
11	1.1	1.7	wet	3	Fill		Same as above.	EF-B19_11.0	
12					Fill		No Recovery		
13									
14									
15		18.5						EF-B19_15.0	
16	3.4	143	moist	3	Fill		Reddish Brown (2.5YR 4/3) fine SAND, little very fine Sand and Silt, medium dense, moist. No odor.	EF-B19_15.0X	
17			191	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	EF-B19_17.5
18						PT		No Recovery	EF-B19_17.5X
19									
20		3.5							
21	4.3	4	moist	7	PT		Same as above, interbedded with Red-Brown Silty Sand.		
22			101	wet	8	SP		Gray (Gley1 3/0) very fine to fine SAND, trace Silt, medium dense, wet. No odor.	EF-B19_22.5
23			113						
24									
25					SP		No Recovery		
26							End of boring at 25 ft.		
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

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



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Boring ID: EF-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		

(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 Reddish Brown (5YR 4/3) SILT, little fine angular Gravel and Fill Material (slag, glass, cinders, debris), loose, moist. No odor.	EF-B20_0.5	
2		0		EF-B20_2.0					
3		0		EF-B20_2.5					
4		0		EF-B20_4.0					
5		143							
6	2.2	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								EF-B20_7.0	
8					Fill			No Recovery	
9									
10		0						EF-B20_10.0	
11	2.3	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									
13					Fill			No Recovery	
14									
15		1.4						EF-B20_15.0	
16	2.1	1.8	moist	3 7	Fill OH		Same as above. Very Dark Gray (10YR 3/1) Organic SILTY CLAY, little to trace Organics, cohesive, moist. Sulfur odor.	EF-B20_17.0	
17					OH			No Recovery	
18									
19									
20		0.3							
21	2	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					SP			No Recovery	
23									
24									
25									
26							End of boring at 25 ft.		
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

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



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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611037.146
Date Started Drilling: 4/18/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682131.021
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: 2/20.5 ft
Physical Location:		

(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 to wet	2	Fill		Black Asphalt Very Dark Gray (7.5YR 3/1) SILT, some medium to fine Gravel, trace Clay and Fill Material (cinders, slag, coal, glass), loose, dry to wet at 2', slight sheen. No odor.	EF-B21_0.5	
2		0		3				EF-B21_2.0	
3		0						EF-B21_2.5	
4		2.1						EF-B21_4.0	
5		0							
6	2.7	0						EF-B21_6.0	
7		0	moist	3	Fill	Dark Reddish Gray (2.5YR 3/1) SILT and fine SAND, trace fine Gravel, soft, moist. No odor. No Recovery	EF-B21_7.5		
8					Fill				
9									
10		0						EF-B21_10.0	
11	3.2	0	moist	3	Fill		Same as above		
12		0	moist	3	Fill			Weak Red (10R 4/3) fine SAND, some Silt, trace coarse Sand and fine Gravel, medium dense, moist. No odor.	EF-B21_12.0
13									
14					Fill		No Recovery		
15		0							
16		0	moist	3	Fill			Same as above.	EF-B21_16.0
17	5	0						EF-B21_17.5	
18		164	moist	7	PT				Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.
19		584							
20		14.6							
21	3	72.4	moist	7	OL		PEAT and Dark Gray (Gley1 3/0) SILT interbedded, medium stiff, moist. Sulfur odor.		
22		64.8	wet	8	ML			Dark Gray (Gley1 3/0) SILT and fine to medium SANDY SILT interbedded, soft, wet. Sulfur odor.	EF-B21_22.5
23									
24					ML		No Recovery		
25									
26								End of boring at 25 ft.	
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

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



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Boring ID: EF-22

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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		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2	Fill		Black Asphalt 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_0.5
2		0	moist to wet	6				EF-B22_2.0
3		1						EF-B22_2.5
4		1						EF-B22_4.0
5		0.5						EF-B22_5.5
6	1				Fill		No Recovery	
7								
8								
9								
10		0.5						EF-B22_10.0
11	2.1	1.1	wet	6	Fill		Gray (5Y 5/1) SILT and ASH, loose, wet. No odor. Reddish Brown (2.5YR 4/3) SILT and fine SAND, little fine angular Gravel, soft, wet. No odor.	EF-B22_12.0
12			wet	3	Fill			
13								Fill
14								
15		0						
16	5	247	moist	7	PT		Dark Reddish Brown (5YR 3/2) PEAT, Organics, little Silty Clay, semi-cohesive, medium stiff, moist. Sulfur odor.	
17		274						
18		1456						EF-B22_17.5
19		790						EF-B22_17.5X
20		276						
21	4.4	347						
22		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								
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\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-81

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 610425.47
Date Started Drilling: 8/4/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682307.091
Date Finished Drilling: 8/4/2011	Core Size: 4 in	Boring Total Depth: 1 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: JC Abandoned Lot		

(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 4/2) SILT, some fine to medium Sand, trace coarse Gravel, loose. No odor.	EF-B81_0.5
2							End of boring at 1.0 ft.	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: No COPR/GGM identified at this location.

PPG - GINT STD US LAB.GDT - 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-82

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 610419.622
Date Started Drilling: 8/4/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682331.329
Date Finished Drilling: 8/4/2011	Core Size: 4 in	Boring Total Depth: 1 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: JC Abandoned Lot		

(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 moist	3 6	Fill Fill		Gray COBBLESTONE street. Dark Gray (10YR 5/1) ASH and CINDERS, loose. Petroleum odor.	EF-B82_0.5
2							End of boring at 1.0 ft.	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
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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\BORING LOGS\GINT.L



30 Knightsbridge Road, Piscataway, NJ 08854
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Boring ID: EF-83

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 610443.993
Date Started Drilling: 8/4/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682335.022
Date Finished Drilling: 8/4/2011	Core Size: 4 in	Boring Total Depth: 1 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: JC Abandoned Lot		

(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 4/2) SILT, some fine to medium Sand, trace coarse Gravel, loose. No odor.	EF-B83_0.5
2							End of boring at 1.0 ft.	
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Comments: No COPR/GGM identified at this location.

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Boring ID: EF-84

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Hand Auger	Coordinates (NJSPNAD83) x: 610445.995
Date Started Drilling: 8/4/2011	Rig Type: Hand Auger	Coordinates (NJSPNAD83) y: 682310.28
Date Finished Drilling: 8/4/2011	Core Size: 4 in	Boring Total Depth: 1 ft
Logged By: M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: N/A ft
Physical Location: JC Abandoned Lot		

(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 4/2) SILT, some fine to medium Sand, trace coarse Gravel, loose. No odor.	EF-B84_0.5
2							End of boring at 1.0 ft.	
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Comments: No COPR/GGM identified at this location.

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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 610685.353
Date Started Drilling: 8/30/2012 12:55:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682188.729
Date Finished Drilling: 8/30/2012 1:30:00 PM	Core Size: 2 in	Boring Total Depth: 4.5 ft
Logged By: Ben Daniels	Project Manager: Chris Martell	Depth to Water: NA
Physical Location:		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1		0.0	dry	2	ASPHALT		ASPHALT	
				3	FILL		fine to coarse SAND, some fine to coarse gravel little silt, (7.5YR 3/2) dark brown, dry , no odor, angular, Little fill material (brick, glass, asphalt)	
2		152.0	dry	3	FILL		silty SAND, little fine to medium gravel and fill material, (7.5YR 4/1) dark gray, dry to moist , strong solvent odor, angular, (Coal, ceramic, wood fragments, glass, metal)	EF-B091-2.0-2.5
3			moist		FILL		Moist at 2.5 ft. MGP odor.	
4		831.0	moist	3	FILL		silty SAND, little fine to coarse gravel and fill material, (7.5YR 4/1) dark gray, moist , strong solvent odor, angular, (wood fragments, coal, glass) MGP odor.	EF-B091-4.0-4.5
							silty SAND, little fine to coarse gravel and fill material, (7.5YR 3/1) very dark gray, moist , strong solvent odor, angular, (Glass, coal, ceramic, paper, metal, wood fragments) MGP odor.	

Comments:



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Boring ID: 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		

(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.	
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Comments: No COPR/GGM identified at this location.

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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		

(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.

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\BORING LOGS\GINT.L


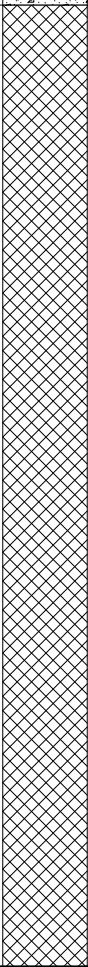


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Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60154801	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 611316.125
Date Started Drilling: 9/4/2012 1:05:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 682399.4375
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:		

(Note bgs = below ground surface)

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

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:



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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		

(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	2.5	0.0	dry	2	ASPHALT		ASPHALT	
		0.0		3	FILL		Dark brown (7.5YR 3/2) silty SAND with Cobbles, some fine to coarse angular Gravel, dry, no odor.	
		0.0		3	FILL		COBBLES	
		0.0	moist	3	FILL		Dark gray (7.5YR 4/1) fine to coarse SAND with Cobbles, little fine to medium angular Gravel, little Fill Material (coal, ash, cinders), moist, no odor.	

EF-128-2.0-2.5

Comments: No COPR/GGM identified.



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Boring ID: ICO-07

Page: 1

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610434.551
Date Started Drilling: 5/13/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682322.793
Date Finished Drilling: 5/13/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 4.0/20.0 ft
Physical Location: Southern Canal Area		

(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		Dark Brown (7.5YR 3/2) fine to coarse SAND, little fine to medium Gravel, little Fill (brick, glass, coal), loose. No odor.	ICO-7_0.5	
2		0						ICO-7 2.0	
3			moist	3	Fill		Brown (7.5 YR 4/4) fine to medium SAND, some Silt, little fine to coarse Gravel, little Fill (brick, coal), medium dense. No odor.		
4		0						ICO-7 4.0	
5		0	wet	3	Fill		Dark Brown (7.5YR 3/2) SILT, some very fine to medium Sand, little Clay, trace fine to medium Gravel, little Fill (brick, coal, slag), medium stiff. No odor.		
6	2.1	0	moist	3	Fill		Reddish Brown (5YR 4/4) SILT to fine Silty SAND, trace fine angular Gravel, medium dense. No odor.	ICO-7 6.0	
7			moist	6	Fill		Black and Brown (7.5 YR 4/4) SILT, some Cinders, interbedded Cinders and Ash at 6.3' to 6.5', soft/loose. No odor.		
8			moist	6	Fill		No Recovery		
9									
10		0						ICO-7 10.0	
11	2		wet	6	Fill		Black and Brown (7.5 YR 4/4) SILT, some Cinders, soft/loose. No odor.		
12			wet	6	Fill		Brown crushed FILL (ceramics, coal, gravel), some Ash and Cinders, little Silt, loose. No odor.	ICO-7 12.0	
13			wet	6	Fill		No Recovery		
14									
15		0.1						ICO-7 15.0	
16	1		wet	3	Fill		Brown (7.5YR 5/2) fine SAND and SILT, very soft. No odor.		
17			moist	7	CL		Black Silty CLAY, trace fine angular Gravel, semi-cohesive, medium stiff. No odor.		
18			moist	7	CL		No Recovery		
19									
20		0							
21	3.5	0	wet	10	SW-SM		Brown (7.5 4/2) fine to coarse graded SAND, little Silt, loose. No odor.		
22			0	wet	10	SP-SM		Strong Brown (7.5YR 4/6-5/6) fine to medium graded SAND, little to trace Silt, loose. No odor.	
23									
24			wet	10	SP-SM		No Recovery		
25									
26							End of boring at 25 ft.		
27									
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Comments: No GGM/COPR identified at this location.

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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		

(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	1		moist to 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'. No Recovery	ICO-8 6.0
7			wet	6	Fill				
8									
9									
10		0							ICO-8 10.0
11	1.2		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									
14									
15		2						ICO-8 15.0	
16	4.3	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		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	0.3		moist	9	CL		Dark Gray (2.5yr 4/1) Silty CLAY, trace organics, cohesive, medium stiff. Sulfur odor.		
22			moist	9	CL			No Recovery	
23									
24									
25									
26							End of boring at 25 ft.		
27									
28									
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Comments: No GGM/COPR identified at this location.

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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610459.328
Date Started Drilling: 5/11/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682217.351
Date Finished Drilling: 5/12/2011	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.3 ft
Physical Location: Southern Canal Area		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	moist	3	Fill		Brown (7.5YR 5/4) very fine to medium SAND, some Silt, little fine to coarse Gravel and Fill (brick, coal, debris), trace Cobbles, medium dense. No odor.	ICO-9_0.5
2		0						ICO-9 2.0
3								
4		0						ICO-9 4.0
5		0	moist	6	Fill			Very Dark Gray (7.5YR 3/1) ASH and CINDERS, medium dense. No odor. Black-stained coarse SAND and BRICK, little Silt and coal fragments, loose. No odor. Reddish Brown (5YR 4/4) fine SAND, some Silt, trace coarse Sand, loose. No odor. No Recovery
6	1.8	0	wet	3	Fill			
7			wet	3	Fill			
8								
9								
10		0					Reddish Brown (5YR 4/4), fine SAND, some Silt, trace medium angular Gravel, loose to moderately dense. No odor.	ICO-9 10.0
11	1.6	0	wet	3	Fill			
12			wet	3	Fill			No Recovery
13								
14								
15		0					Reddish Brown (5YR 4/4), fine SAND, some Silt, trace medium angular Gravel, trace mottling, moderately dense. No odor.	ICO-9 15.0
16	3.2	0	wet	3	Fill			
17			3.4	moist	12			Canal Bottom
18			moist	7	PT			
19			moist	7	PT			
20								
21						End of boring at 20 ft.		
22								
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Comments: No GGM/COPR identified at this location.

PPG - GINT STD US LAB.GDT - 11/3/11 14:36 - \\USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L



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Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 610384.699
Date Started Drilling: 5/11/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 682154.517
Date Finished Drilling: 5/11/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Meringer	Project Manager: Robert Cataldo	Depth to Water: 10 ft
Physical Location: Southern Canal Area		

(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 to moist	3	Fill		Brown (7.5YR 4/2) fine to coarse SAND, some to little Silt, little fine to medium Gravel and Fill (glass, brick), trace organics, medium dense. No odor.	ICO-10_0.5
2		0						ICO-10_2.0
3								
4		0						
5		0	moist	3	Fill			Very Dark Brown (7.5YR 2.5/2) very fine to medium SAND, some fine to medium Gravel, little Fill (ash, cinder), medium dense. No odor.
6	2	0	moist	3	Fill		Yellowish Red (5YR 4/6) to Dark Reddish Gray (5YR 4/2) SILT, some fine Sand, little Cobbles and Brick, soft/dense. No odor.	ICO-10_6.0
7								
8			moist	3	Fill			No Recovery
9								
10		0						ICO-10_10.0
11	1		wet to moist	3	Fill		Yellowish Red (5YR 4/6) to Dark Reddish Gray (5YR 4/2) SILT, some fine Sand, little Cobbles and Brick, soft/dense. No odor. Wet at 10.3'. No Recovery	
12			wet	3	Fill			
13								
14								
15		0						ICO-10_15.0
16	2	0	wet	3	Fill		Yellowish Red (5YR 4/6) to Dark Reddish Gray (5YR 4/2) SILT, some fine Sand, little Cobbles and Brick, very soft/dense. No odor. Black-stained CLAY with trace Coal fragments, graded to Brown (7.5YR 4/2) very fine Silty SAND, stiff to loose. No odor. No Recovery	ICO-10_16.0
17			moist	3	Fill			
18			moist	3	Fill			
19								
20		0						ICO-10_20.0
21	3.1	0	wet	3	Fill		Brown (7.5YR 4/2) very fine SAND, little Silt, loose. No odor. Dark Gray (7.5YR 4/1) CLAY, trace Silt and Organics, shells, cohesive, firm. Sulfur odor. No Recovery	
22			moist	7	OH			
23								
24			moist	7	OH			
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

PPG - GINT STD US LAB.GDT - 11/3/11 14:36 - \\USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L


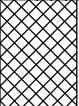
Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig and Direct Push	Coordinates (NJSPNAD83) x: 611135.8
Date Started Drilling: 7/31/2018	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 682223.1
Date Finished Drilling: 8/1/2018	Core Size: 2-inch MacroCore	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 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0		ASPHALT		ASPHALT	PAC-CC39A-0.7-1.2	
				FILL		fine to medium SAND, little rock fragments trace gravel, (7.5YR 6/3) light brown		
2	5	0.0		FILL		Cobbles and gravel encountered above 3.0 ft. fine to medium SAND, little rock fragments, trace gravel, (7.5YR 6/3) light brown	PAC-CC39A-3.4-3.9	
3								
4								
5	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	PAC-CC39A-5.4-5.9	
6			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		
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 UNOrg - 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	
0 - 1	5	0.0		ASPHALT FILL		Asphalt		
1 - 2						fine to medium SAND, trace cobbles, trace gravel, trace silt, trace ash, (10YR 3/3) dark brown		
2 - 3					FILL		fine to medium SAND, little ash, trace cobble, trace gravel, trace silt, (10YR 5/3) brown.	
3 - 4					FILL		Jackhammer refusal due to heavy slag. Boring relocated approximately 20 ft north and preclear advanced to 5.0 ft bgs.	
4 - 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		
5 - 6								
6 - 7								
7 - 8								
8 - 9								
9 - 10	5	6						
10 - 11								PAC-Y50A-10.8-11.3
11 - 12								
12 - 13							PAC-Y50A-12.8-13.3	
13 - 14								
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:

Project Name: PPG Garfield Ave	Drilling Company: SGS	
Project Number: 60279173	Drilling Method: Soft Dig	Coordinates (NJSPNAD83) x: 610971.45
Date Started Drilling: 8/2/2018	Rig Type: None	Coordinates (NJSPNAD83) y: 682069.78
Date Finished Drilling: 8/2/2018	Core Size:	Boring Total Depth: 5 ft
Logged By: Eric Acs	Project Manager: Bill Spronz	Depth to Water: Not Encountered
Physical Location: Pacific Avenue		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		
0.0 - 0.5	5	0.0		ASPHALT FILL		ASPHALT			
0.5 - 1.0						fine to medium SAND, trace silts, trace gravel, (7.5YR 3/2) dark brown			
1.0 - 2.0									
2.0 - 3.0						FILL		fine to medium SAND, trace silts, trace gravel, trace ash, (7.5YR 3/2) dark brown	
3.0 - 4.0						FILL		fine to medium SAND, little ash, trace silts, trace gravel, trace slag, (7.5YR 3/2) dark brown	PAC-Z46A-3.4-3.9
4.0 - 5.0				FILL		fine to medium SAND, trace silts, trace gravel, (7.5YR 3/2) dark brown	PAC-Z46A-3.8-4.3		
5.0 - 5.5									

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: 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		

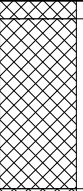

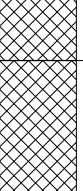
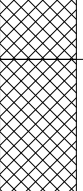
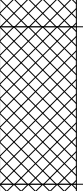
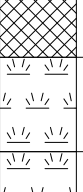


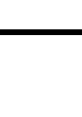
(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	5	0.4	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
		0.0	dry	3	FILL			
		1.3	dry	3	FILL			
		0.0	dry	6	FILL			
		0.0	dry	3	FILL			
5-8	2.4	29.2	moist	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.	SCB-16-4.0-4.5
		0.0	moist	3	FILL			
		30.2	wet	3	FILL			
					FILL			
9-14	2.3						Very dark gray (5YR 3/1) SILT, trace wood fragments, soft, wet, no odor.	SCB-16-10.0-10.5
		0.0	wet	3	FILL			
		1.4	wet	3	FILL			
					FILL			
					FILL			
15-18	2.6	0.0	moist	3	FILL		Black (5YR 2.5/1) CLAY, soft, moist, no odor.	SCB-16-16.0-16.5
		0.8	moist	3	FILL			
		0.0	moist	3	FILL			
		0.0	moist	10	SW SW			
18-20							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.

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		

(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
		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.	
2	5	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
3		0.0		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.	
4	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
5		0.0		3	FILL		Olive (5Y 4/3) clayey SILT, soft, wet, no odor.	
6	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-12.0-12.5
7		0.0		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.	
8	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-16.0-16.5
9		0.0		3	FILL		Black (5YR 2.5/1) fine to medium silty SAND, little fine to medium angular Gravel, medium dense, wet, no odor.	
10	2.5	8.1	moist	7	PT		Dark yellowish brown (10YR 3/4) PEAT, trace organics, stiff, moist, slight organic odor.	SCB-17-18.0-18.5
11		0.0		7	PT		NO RECOVERY	
12	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-19.0-19.5
13		0.0		3	FILL		NO RECOVERY	
14	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-20.0-20.5
15		0.0		3	FILL		NO RECOVERY	
16	2.5	8.1	moist	7	PT		NO RECOVERY	SCB-17-21.0-21.5
17		0.0		7	PT		NO RECOVERY	
18	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-22.0-22.5
19		0.0		3	FILL		NO RECOVERY	
20	2.5	0.0	wet	3	FILL		NO RECOVERY	SCB-17-23.0-23.5
21		0.0		3	FILL		NO RECOVERY	

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

Comments: No COPR/GGM identified.

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		

(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							NO RECOVERY	
8							NO RECOVERY	
9								
10	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
11		0.0	wet	3	FILL		Dark brown (7.5YR 3/2) fine to medium SAND, dense, wet, no odor.	
12		0.0	wet	3	FILL		Black (5YR 2.5/1) fine to medium angular GRAVEL, little fine to coarse Sand, dense, wet, no odor.	
13		0.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) clayey SILT, trace coal, stiff, wet, slight organic odor.	SCB-18-12.5-13.0
14							Very dark brown (7.5YR 2.5/2) PEAT, trace organics, stiff, moist, slight organic odor.	
15	3.1	40.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) PEAT, trace organics, stiff, moist, slight organic odor.	
16								
17								
18							NO RECOVERY	
19								
20								

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

Comments: No COPR/GGM identified.