

Appendix I

Boring Logs

Boring logs for the remaining sample locations collected via soil core are included in this Appendix. Logs were not generated for the following concrete chip sample locations:

- 114-90F-IRM-20140714
- 114-98F-IRM-E
- 114-98F-IRM-W
- 90 FORREST-2015-Q2
- FS-CH-East
- FS-CH-North
- FS-CH-South
- FS-CH-West

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Hurricane	Coordinates (NJSPNAD83) x: 611787.9
Date Started Drilling: 12/1/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683588.8
Date Finished Drilling: 12/2/2011	Core Size: 12 in	Boring Total Depth: 15 ft
Logged By: D. Chamberland	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest St		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
			dry	ASPHALT		Black ASPHALT and White Concrete, dense.	
1			moist	FILL		Very Dark Gray (10YR 3/1) fine to coarse SAND, little fine to medium angular Gravel, trace Silt, loose.	MW25A-1.0
2			moist	FILL		Brown (7.5YR 4/2) fine to coarse SAND, little Silt and fine to coarse angular Gravel, loose.	MW25A-3.0
3							
4			moist	FILL		Black (7.5YR 2.5/1) SILT and fine Sand, trace Fill Material (debris), soft.	MW25A-4.5
5							
6			moist	FILL		Yellowish Brown (10YR 5/4) fine SAND, uniform, loose.	MW25A-6.0
7			wet	FILL		Dark Yellowish Brown (10YR 4/4) very fine SAND, some Silt, trace medium Sand, medium dense. Yellow water.	MW25A-8.0
8			wet	FILL		Interbedded Very Pale Brown (10YR 7/4) to Reddish Yellow (7.5YR 6/6) fine SAND, trace Silt, dense.	MW25A-8.0
9			wet	VOID		No Recovery.	
10			moist	FILL		Brown (7.5YR 5/4) fine to medium SAND, medium dense.	MW25A-10.0
11			wet	FILL		Yellowish Brown (10YR 5/6) medium SAND, some fine Sand, loose. Saturated with yellow water.	MW25A-12.0
12							
13			dry	FILL		Light Yellowish Brown (10YR 6/4) fine SAND, little fine to medium Rock fragments, trace Silt, dense.	
14			moist	SP		Yellowish Red (5YR 5/6) medium to coarse SAND, some fine rounded Gravel, dense.	MW25A-14.0
15						End of boring at 15 ft. Well set at 14.5 ft.	

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611795.8
Date Started Drilling: 1/20/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683596
Date Finished Drilling: 1/24/2014 1:30:00 PM	Core Size: 2 in	Boring Total Depth: 35 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW25B		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	3	0.0	dry to moist	FILL		fine to medium SAND, some COPR, (5YR 2.5/2) dark reddish brown, non plastic, loose, dry to moist, no odor, no staining.	
3-4	0	0.0		CONCRETE		CONCRETE	
4-5	0			NR		NO RECOVERY	
5-6	0			NR		NO RECOVERY	
6-7	0			NR		NO RECOVERY	
7-8	0			NR		NO RECOVERY	
8-9	1.5	0.0	moist	FILL		fine SAND, with silt, (5YR 4/4) reddish brown, non plastic, soft, moist, no odor, no staining.	
9-10				NR		NO RECOVERY	
10-11	1	0.0	moist	FILL		fine SAND, with silt, (5YR 4/4) reddish brown, non plastic, soft, moist, no odor, no staining.	
11-12				NR		NO RECOVERY	
12-13	1	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining.	
13-14				NR		NO RECOVERY	
14-15	1.2	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, loose, wet, no odor, no staining.	
15-16	0.0		wet	SM		fine to medium SAND, with fine to coarse gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, angular, red fine sand layer. Soils consistent with UNDno.	
16-17				NR		NO RECOVERY	
17-18	1.2	0.0	wet	SM		fine to medium SAND, with fine to coarse gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining, angular, red fine sand layer. Soils consistent with UNDno.	
18-19				NR		NO RECOVERY	
19-20	0.6	0.0	moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
20-21				NR		NO RECOVERY	
21-22	3	0.0		SM		Drill advanced 3.0 feet. Soils consistent with UNDno.	

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611795.8
Date Started Drilling: 1/20/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683596
Date Finished Drilling: 1/24/2014 1:30:00 PM	Core Size: 2 in	Boring Total Depth: 35 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW25B		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	1	0.0	moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
24		0.0		SM		Drill advanced 3.0 feet. Soils consistent with UNDno.	
25	3						
26							
27		0.0	moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
28	0.8			NR		NO RECOVERY	
29							
30	3	0.0	moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Drill advanced 3.0 feet. Soils consistent with UNDno.	
31							
32	0.8	0.0	moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
33			moist	SM		fine to medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
34	0.8		moist	NR		NO RECOVERY	
35							

Notes:
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 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: Hurricane	Coordinates (NJSPNAD83) x: 611841.6
Date Started Drilling: 12/1/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683638.6
Date Finished Drilling: 12/2/2011	Core Size: 12 in	Boring Total Depth: 20 ft
Logged By: D. Chamberland, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest St		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				ASPHALT		black ASPHALT.	
1			moist	FILL		black (5YR 2.5/1) fine to coarse SAND, trace silt and medium angular gravel, loose, moist.	MW27A-0.5
2			moist	FILL		very dark gray (7.5YR 3/1) fine to medium SAND, little fine to medium angular gravel, trace silt and fill material, loose, moist.	
3							MW27A-3.0
4				NR		NO RECOVERY. Soft dig refusal at 3.5 ft due to dense gravel mix.	
5			moist	FILL		brown (7.5YR 5/4) SILT, and fine angular Gravel, little fine sand, loose, moist.	MW27A-5.0
6			wet	FILL		olive brown (2.5Y 4/3) SILT, stiff, wet. Slight sulfur odor.	MW27A-6.0
7							
8			dry	ML		strong brown (7.5YR 5/6) SILT, little clay, stiff, dry.	
9			dry	NR		NO RECOVERY	MW27A-8.0
10			moist	SP-SM		red (2.5YR 5/6) mottled fine SAND, and silt, little fine sub-angular gravel, medium dense, moist.	
11							
12			wet	SW-SM		reddish brown (2.5YR 4/4) fine to coarse SAND, and silt, little fine sub-rounded gravel, loose, wet.	
13							
14			wet	NR		NO RECOVERY	
15			wet	SM		reddish brown (2.5YR 4/4) fine SAND, little silt, loose, wet.	
16							
17							
18							
19	0		moist	GP		reddish brown (2.5YR 4/4) very fine SAND, and fine to medium sub-rounded gravel, dense, moist.	
20							

Notes:
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Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611835.7
Date Started Drilling: 1/28/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683631.9
Date Finished Drilling: 1/29/2014 1:30:00 PM	Core Size: 2.0 in	Boring Total Depth: 35 ft
Logged By: FM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW27B		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0		ASPHALT		gravelly ASPHALT, with mixed fill.	
		0.0		CONCRETE		coarse gravelly CONCRETE, with mixed brick and black silt, no odor.	
2							
3				NR		NO RECOVERY	
4	0						
5		0.0	moist	FILL		fine to medium sandy SILT, dark gray, moist, no odor.	
6	2						
7		0.0	moist	FILL		fine to medium clayey SILT, light brown, pliable, trace fine gravel, moist, no odor.	
8	2						
9		0.0	moist	FILL		fine to medium clayey SILT, some reddish brown, 5YR 4/3, moist, no odor, some cinders.	
10	2						
11		0.0		FILL		fine to medium silty SAND, some slag and cinders, trace clay in thin bands, no odor.	
12	2						
13		0.0		FILL		fine to medium silty SAND, reddish-brown, 5YR 4/3, trace slag, cinders and fine gravel, loose, no odor.	
14	2						
15		0.0	very wet	FILL		fine to medium silty SAND, increasing fine gravel, slag and cinders, 20%, dark gray.	
16	2		damp to moist	SM		fine to coarse sandy GRAVEL, with mixed cinders, very wet, no odor.	
17		0.0	wet	SM		fine to medium silty SAND, reddish-brown, 5YR 4/3, damp to moist, tight sand, fine gravel, no odor. Soils consistent with UNDno.	
18	2						
19		0.0	wet	SP		fine to medium silty SAND, reddish-brown, 5YR 4/3, trace fine gravel, loose, thin bands of gray silt, wet, no odor. Soils consistent with UNDno.	
20	0			NR		fine to medium SAND, and medium gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	
21		0.0		SP		NO RECOVERY	
22	3					Drill advanced 3.0 feet. Soils consistent with UNDno.	

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Mud Rotary	Coordinates (NJSPNAD83) x: 611835.7
Date Started Drilling: 1/28/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683631.9
Date Finished Drilling: 1/29/2014 1:30:00 PM	Core Size: 2.0 in	Boring Total Depth: 35 ft
Logged By: FM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW27B		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23	1.2	0.0	moist	SP		fine to medium SAND, and fine to coarse gravel, (5YR 4/3) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
24				NR		NO RECOVERY	
25	3	0.0		SP		Drill advanced 3.0 feet. Soils consistent with UNDno.	
26							
27							
28	1.5	0.0	moist	SM		fine to medium SAND, with fine to coarse gravel, (5YR 4/3) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
29				NR		NO RECOVERY	
30	3	0.0		SM		Drill advanced 3.0 feet. Soils consistent with UNDno.	
31							
32							
33	1.5	0.0	moist	SM		fine to medium SAND, with fine to coarse gravel, (5YR 4/3) reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno.	
34				NR		NO RECOVERY	
35							

Notes:
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Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611912.7
Date Started Drilling: 7/22/2015 9:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.1
Date Finished Drilling: 7/22/2015 9:25:00 AM	Core Size: 2 in	Boring Total Depth: 15 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW37A		Surface Elevation: 11.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	3	0.0		FILL		GRAVEL, fill material.	
		0.0	dry	FILL		fine to medium SAND, trace fine gravel fill material, (7.5YR 3/2) dark brown, dry, no odor, no staining.	
		0.0	dry	FILL		fine SAND, with ash and cinders, trace slag and concrete, (7.5YR 3/2) dark brown, dry, no odor, no staining.	
3-4				NR		NO RECOVERY.	
4-6	3	0.0	dry	FILL		fine SAND, with ash and cinders, trace slag and concrete, (7.5YR 3/2) dark brown, dry, no odor, no staining. medium SAND, with brick, (7.5YR 4/2) brown, moist, no odor, no staining. medium SAND, trace tar-like material, (7.5YR 3/2) dark brown, wet, no odor, no staining. fine SAND, some silt, (7.5YR 4/1) dark gray, moist, no odor, no staining.	
		0.0	moist	FILL			
		0.0	wet	FILL			
		0.0	moist	FILL			
7-8				NR		NO RECOVERY.	
8-10	3.5	0.0	moist	FILL		fine SAND, some silt, (7.5YR 4/1) dark gray, moist, no odor, no staining.	
		0.0	moist	SM		UNDno fine to medium SAND, trace fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
11-12				NR		NO RECOVERY.	
12-13	3	0.0	wet	SM		UNDno medium SAND, with fine gravel, (5YR 2.5/2) dark reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	
14-15							

Notes:
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 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 North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611917.3
Date Started Drilling: 6/23/2015 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683689.1
Date Finished Drilling: 6/23/2015 2:45:00 PM	Core Size: 2 in	Boring Total Depth: 35 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - 114-MW37B		Surface Elevation: 11.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0		FILL		GRAVEL fill material.	
		0.0	dry	FILL		coarse SAND, with fine gravel, (7.5YR 2.5/1) black, dry, no odor, no staining.	
2		0.0	dry	FILL		fine to medium SAND, with silt fill material, (7.5YR 4/2) brown, slightly moist, no odor, no staining.	
3		0.0	dry	FILL		fine SAND, with ash and cinders, (7.5YR 4/1) dark gray, dry, no odor, no staining, trace coal.	
4					NR		
5	3	0.0	dry	FILL		fine SAND, with coal and ash, (7.5YR 2.5/1) black, dry, no staining, little cinder, tar-like odor.	
6		0.0	slightly moist	FILL		NO RECOVERY.	
7					NR		
8	3.5			NR		fine SAND, and silt, (10YR 4/2) dark grayish brown, slightly moist, slight tar-like odor, no staining.	
9		0.0	moist	FILL		NO RECOVERY.	
10		0.0	wet	SP		fine SAND, some silt, (10YR 5/1) gray, moist, no odor, no staining.	
11						UNDno fine to medium SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	
12	2			NR		NO RECOVERY.	
13		0.0	wet	SP		UNDno medium to coarse SAND, with medium to coarse gravel, (5YR 2.5/2) dark reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	
14					NR		NO RECOVERY.
15	3			NR			
16		0.0	wet	SP		UNDno medium to coarse SAND, with medium to coarse gravel, (5YR 2.5/2) dark reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	
17		0.0	moist	SP		UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
18				NR		NO RECOVERY.	
19	4			NR			
20		0.0	moist	SP		UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
21					NR		NO RECOVERY.
22	4			NR			
23		0.0	moist	SP		UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
24					NR		NO RECOVERY.
25	4			NR			
26		0.0	moist	SP		UNDno fine to medium SAND, trace silt and fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
27					NR		NO RECOVERY.
28	3			NR			
29		0.0	moist	SP		UNDno fine to medium SAND, trace silt and fine gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
30					NR		NO RECOVERY.
31	3			NR			
32		0.0	moist	SP		UNDno fine to medium SAND, trace silt little medium gravel, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
33					NR		NO RECOVERY.
34				NR			
35				NR			

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

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611683.3
Date Started Drilling: 4/11/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683662.2
Date Finished Drilling: 4/13/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 3/20 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	2 4B	Fill		Black Asphalt	EF-B05_0.5
2		0					Dark Brown (7.5YR 5/2) SILT, some fine to medium Sand and COPR (50%), little fine to medium angular Gravel, loose, dry. No odor.	EF-B05_2.0
3		0	moist	4B	Fill		Dark Reddish Brown (5YR 2.5/2) SILT, some fine to medium Sand, little fine to medium angular Gravel, trace COPR (5%)	EF-B05_2.5
4		2.0	moist to wet	6	Fill		loose, moist. No odor.	EF-B05_4.0
5		0.3					Black COAL ASH and CINDERS, loose, moist to wet at 3'. Slight petroleum odor.	
6	1.5	13.3	wet	6	Fill		Black-stained medium to coarse crushed FILL MATERIAL (coal, ceramics, gravel), little fine SAND, trace Silt and interbedded very fine Sand and Ash, wet, loose. Coal Tar odor.	EF-B05_6.0
7			wet	3	Fill		Black-stained medium to very fine SAND, little Silt, trace Ash, wet, soft. No odor.	
8							No Recovery	
9								
10		0.4						EF-B05_10.0
11	5	0.7	wet	6	Fill		Black-stained medium to coarse crushed FILL MATERIAL (coal, ceramics, gravel) and SILT, little fine SAND, wet, loose. Coal Tar odor.	
12		0.2	wet	7	OL		Very Dark Gray (2.5Y 3/1) to Light Olive Brown (2.5Y 5/3) ORGANIC SILT, wet, soft. Slight Coal Tar odor.	EF-B05_12.5
13		0.1						
14		0.1						
15	2.8	0.1	moist	10	SP-SM		Reddish Brown (5YR 4/4) fine to medium SAND and SILT, some fine to medium sub-angular Gravel, trace Clay, moist, dense. No odor.	
16		0.1						
17		0.1						EF-B05_17.0
18								
19					SP-SM		No Recovery	
20		0.4						
21	5	0.6	wet	10	SP-SM		Reddish Brown (5YR 4/3) fine to medium SAND and SILT, some interbedded Black-stained fine to medium angular Gravel (20.0-21.0'), wet, loose. Coal Tar odor.	
22		0.3						
23		0.1	wet	10	SP		Reddish Brown (5YR 4/3) fine to medium SAND, little medium angular Gravel and Silt, wet, loose. No odor.	EF-B05_22.5
24		0.2						
25		0.1						
26							End of boring at 25 ft.	
27								
28								
29								
30								
31								
32								
33								
34								
35								

Comments: COPR 50-80% was identified from 0.4-2.5 ft bgs.

PPG - GINT STD US LAB.GDT - 11/3/11 14:34 - \\USPSW2\FP001\DATA_USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611717.0
Date Started Drilling: 6/6/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683682.2
Date Finished Drilling: 6/6/2011	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: E. Acs, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 0.5 ft
Physical Location: End of Forrest Street, in loading dock		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	1	Fill		Concrete (Apron to Loading Dock), no rebar - wire mesh instead.	ICO-20_0.5
2		0	wet	3	Fill		Black (10YR 2/1) CLAYEY SILT, Organic, trace fine to coarse angular Gravel and Organic Fibers, soft. No odor.	ICO-20_2.0
3		0	wet	3	Fill		Dark Grayish Brown (10YR 4/2) SILT, trace Clay and fine to coarse angular Gravel, Organics, soft. No odor.	EF-B46_2.5
4		0	wet	8	ML		Black (10YR 2/1) fine to coarse angular GRAVEL, little-trace Silt, loose. No odor.	ICO-20_4.0
5		0					Dark Grayish Brown (10YR 4/2) SILT, trace Clay, Organic, soft. No odor.	
6	2.5	0	wet	8	ML		Gray (2.5Y 5/1) and Yellowish Brown (10YR 5/4) SILT graded to very fine Sand, some interbedding, medium stiff. No odor.	ICO-20_6.0
7		0						
8			wet	8	ML		No Recovery	
9		0						
10		0						
11	3.4	0	moist	9	ML-CL		Same as above, little Clay.	
12		0	wet	10	SP-SM		Reddish Brown (5YR 4/3) fine to medium SAND, interbedded with medium Gravel, little to trace Silt, trace weathered Mudstone, trace very dark gray Gravel, loose. No odor.	
13		0						
14			wet	10	SP-SM		No Recovery	
15		0						
16	2.7	0	wet	10	SP-SM		Same as above.	
17		0						EF-B46_17.0X
18				wet	10	SP-SM		No Recovery
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
26								
27								
28								
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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

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611828.1
Date Started Drilling: 3/10/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683628.5
Date Finished Drilling: 3/10/2014 11:15:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street - EF-57A		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.8	0.0		ASPHALT		ASPHALT	
		0.0	dry to slight moist	FILL		medium SAND, with very fine gravel, (7.5YR 2.5/1) black, non plastic, loose to hard, dry to slightly moist, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, with ash, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	
		0.0	dry to slight moist	FILL		fine SAND, trace silt, (7.5YR 3/4) dark brown, non plastic, soft to loose, dry to slightly moist, no odor, no staining.	
5-10	5	0.0	dry to slight moist	NR FILL		NO RECOVERY fine SAND, trace silt, (7.5YR 3/4) dark brown, non plastic, soft to loose, dry to slightly moist, no odor, no staining.	
		0.0	moist to wet	FILL		fine silty SAND, (10YR 5/2) grayish brown, non plastic, soft, moist to wet, no odor, no staining.	
		0.0	wet	FILL		fine to medium SAND, with silt and very fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	
		0.0	wet	FILL		fine to medium SAND, little silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	
10-15	5	0.0	wet	FILL		fine to medium SAND, little silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	EF-57A-10.0-10.5
		0.0	wet	SM		UNDno fine to medium SAND, with medium gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	EF-57A-13.5-14.0
15-20	5	0.0	wet	SM		UNDno fine to medium SAND, with medium gravel, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	
		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	EF-57A-20.0-20.5

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

Comments: No COPR/GGM identified.

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/20/16 09:17

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611828.1
Date Started Drilling: 3/10/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683628.5
Date Finished Drilling: 3/10/2014 11:15:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street - EF-57A		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
5							EF-57A-22.0-22.5
23							
24							EF-57A-24.0-24.5
25		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	EF-57A-26.0-26.5
26							
27	5						
28							EF-57A-28.0-28.5
29							
30		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	EF-57A-30.0-30.5
31							
32	5						
33							EF-57A-32.0-32.5
34							EF-57A-34.0-34.5
35		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) reddish brown, non plastic, loose, wet, no odor, no staining. Soils consistent with UNDno.	EF-57A-36.0-36.5
36							
37	5						
38							EF-57A-38.0-38.5
39							
40							

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

Comments: No COPR/GGM identified.

PPG - 2012-09 RA PPG_LOGS_A_GDT - 12/20/16 09:17



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611820.5
Date Started Drilling: 6/3/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683629.9
Date Finished Drilling: 6/3/2011	Core Size: 2 in	Boring Total Depth: 20.2 ft
Logged By: A. Salazar, B. Daniels	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Forrest Street, in Alleyway at Granite Shop		

(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 and Road Stone: 2 layers of asphalt.	ICO-B22_0.75
2		0	dry	4B	Fill		Dark Reddish Brown (5YR 3/3) medium to fine SAND (5% COPR), little fine angular Gravel, loose. No odor.	ICO-B22_2.0
3		0	dry	3	Fill		Very Dark Brown (10YR 2/2) fine to medium SAND, little fine to medium angular Gravel, trace Silt and Fill Material (glass, coarse gravel), loose. No odor.	
4		0	dry	3	Fill		COBBLESTONE/Belgian Block Road, dense.	ICO-B22_4.1
5		0	dry to moist	3	Fill		Dark Yellowish Brown (10YR 4/4) fine to medium SAND, some Cobbles (2.5-2.8'), trace Silt, fine to medium angular Gravel, Slag and Mica, loose. No odor.	
6	3.8	0	wet	8	SP-SM		Dark Grayish Brown (10YR 4/2) fine to coarse SILTY SAND, little fine to medium angular Gravel and Fill Material (slag, glass, brick), loose. No odor.	ICO-B22_6.0
7		0	wet	9	CL		Very Dark Gray (7.5YR 3/1) SILT and fine SAND, stiff. No odor.	ICO-B22_8.0
8		0					Yellowish Brown (10YR 5/4) CLAYEY SILT, stiff. No odor.	
9							No Recovery	
10		0	wet	9	CL			ICO-B22_10.0
11	4	0	wet	10	ML		Reddish Brown (5YR 4/4) SILT, medium stiff. No odor.	
12		0						EF-B57_12.0
13		0						ICO-B22_14.0
14								
15		0	wet	10	SW		Reddish Brown (5YR 4/4) fine to coarse SAND, some fine to medium angular Gravel, loose. No odor.	
16	3.8	0	wet	10	SW		No Recovery	
17		0	wet	11	GP		Brown (7.5YR 4/2) fine to medium angular GRAVEL, little fine to coarse Sand, loose. No odor.	ICO-B22_16.0
18		0	wet	10	SM		Reddish Brown (5YR 4/4) SILT, little fine to medium Sand, trace fine to medium Gravel, stiff. No odor.	EF-B57_17.0
19								ICO-B22_18.0
20	0.2	0	wet	10	SM		No Recovery	EF-B57_20.0
21			wet	10	SP-SM		Reddish Brown (5YR 4/4) fine to coarse SAND, some fine to medium angular Gravel, little Silt, dense. No odor.	
22							Refusal at 20.2 ft.	
23								
24								
25								
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27								
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35								

Comments: COPR identified from 0.75-1.0 ft bgs (5%).

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



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611767.9
Date Started Drilling: 8/5/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683639.1
Date Finished Drilling: 8/8/2011	Core Size: 2 in	Boring Total Depth: 25 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5/11.5 ft
Physical Location: Inside Granite Building, Forrest St.		

(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	1	Fill		Concrete	
2		0	moist	3	Fill		Strong Brown (7.5YR 5/6) fine to coarse SAND and fine to medium angular GRAVEL, some Fill (slag, coal, ash, cinders), loose. No odor.	EF-B73_2.5
3		0						
4		0						
5		0						
6		0	wet	3	Fill			Dark Brown (7.5YR 3/2) and Brown (10YR 4/3) Clayey SILT to SILT, some fine to medium Sand at 5.0-5.5', soft. No odor.
7	3.5	0						
8		0						EF-B73_7.5X EF-B73_7.5
9			wet	10	SP-SM		Reddish Brown (5YR 4/4) SILT and very fine SAND, trace coarse Sand, medium dense. No odor.	
10		0	wet	10	SP-SM			No Recovery
11		0	moist	10	ML		Strong Brown (7.5YR 5/6) and Gray (10YR 5/1) mottled SILT, dense. No odor.	
12		0	wet	10	SP-SM		Reddish Brown (2.5YR 4/4) medium SAND, some Silt and fine to medium angular Gravel, medium dense. No odor.	
13	3.1	0						
14			wet	10	SP-SM			No Recovery
15		0						
16		0	wet	10	SP-SM		Reddish Brown (2.5YR 4/4) fine to medium SAND, little fine to medium rounded Gravel from 17-18.5', trace Silt, loose. No odor.	
17		0						
18	3.5	0						EF-B73_17.5
19			wet	10	SP-SM		No Recovery	
20		0						
21		0	wet	10	SP-SM		Same as above.	
22		0	wet	10	SP-SM		Reddish Brown (2.5YR 4/4) very fine SAND, little interbedded Silt, little fine angular Gravel from 22.5-23.3', medium dense to dense. No odor.	
23	3.3	0						
24			wet	10	SP-SM			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 14:36 - \\USPSW2\FP001\ENVIRONMENT\PISCATAWAY\PROJECT\PPG-NJC\PROGRAM9-WORKFILES\PROJECT MANAGER-CATALDO\BGA RI-SOIL INVESTIGATION\FIELD WORKING LOGS\GINT L

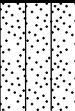


Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611768
Date Started Drilling: 6/1/2015 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683636.5
Date Finished Drilling: 6/2/2015 10:40:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location:		Surface Elevation: 9.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4.5	0.0	dry	FILL		medium SAND, trace slag, (7.5YR 3/2) dark brown, dry, no odor, no staining.	EF-73A-0.0-0.5
2		0.0	dry	FILL		medium SAND, trace coarse gravel trace coal, (5YR 3/2) dark reddish brown, dry, no odor, no staining.	EF-73A-2.0-2.5
3		0.0	moist	FILL		fine to medium SAND, (7.5YR 3/2) dark brown, moist, no odor, no staining.	
4		0.0	slightly moist	FILL		medium SAND, with ash and cinders, (10YR 3/4) dark yellowish brown, slightly moist, no odor, no staining.	
5					NR		NO RECOVERY.
6	4.5	0.0	dry	FILL		fine SAND, trace silt, (7.5YR 3/1) very dark gray, dry, no odor, no staining.	EF-73A-6.0-6.5
7		0.0	moist	FILL		fine SAND, some silt, (7.5YR 6/1) gray, moist, no odor, no staining.	EF-73A-8.0-8.5
8		0.0	moist	SM		UNDno medium SAND, some silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-10.0-10.5
9	4.5	0.0	moist	SM		UNDno medium SAND, some silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-12.0-12.5
10		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-14.0-14.5
11		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-16.0-16.5
12	4			NR		NO RECOVERY.	EF-73A-18.0-18.5
13		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-20.0-20.5
14		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	EF-73A-22.0-22.5
15	5			NR		NO RECOVERY.	EF-73A-24.0-24.5
16		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
17		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
18		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
19		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
20		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
21		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
22		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
23		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
24		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	
25		0.0	moist	SM		UNDno fine to coarse SAND, with medium gravel, (5YR 3/2) dark reddish brown, moist, no odor, no staining. Soils consistent with UNDno.	

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

Comments:

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611768
Date Started Drilling: 6/1/2015 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683636.5
Date Finished Drilling: 6/2/2015 10:40:00 AM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location:		Surface Elevation: 9.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
27-28	5					consistent with UNDno.	EF-73A-26.0-26.5
28-29							EF-73A-28.0-28.5
29-30							
30-31		0.0	moist	SM		UNDno fine to coarse SAND,(5YR 3/2) dark reddish brown,moist,no odor,no staining. Soils consistent with UNDno.	EF-73A-30.0-30.5
31-32	5						EF-73A-32.0-32.5
32-33							
33-34							EF-73A-34.0-34.5
34-35							
35-36		0.0	moist	SM		UNDno fine to coarse SAND, (5YR 3/2) dark reddish brown,moist,no odor,no staining. Soils consistent with UNDno.	EF-73A-36.0-36.5
36-37	5						EF-73A-36.0-36.5
37-38							EF-73A-38.0-38.5
38-39							
39-40							EF-73A-39.5-40.0
40							

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

Comments:



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611868.4
Date Started Drilling: 8/5/2011	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683678.2
Date Finished Drilling: 8/8/2011	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Robert Cataldo	Depth to Water: 5.0 ft
Physical Location: Forrest Street, end of alley on Granite Company property.		




(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number
1		0	dry	2	Fill		Asphalt and Gravel	
2		0	dry	3	Fill		Dark Brown (7.5YR 3/2) SILT, little fine to medium Gravel, trace coarse Sand, loose. No odor.	
3		0						
4			dry	3	Fill		Black coarse GRAVEL and SILT, very dense.	
5		0	dry	1	Fill		Concrete slab	
6	3	0	wet	3	Fill		Dark Brown (7.5YR 3/2) and Brown (10YR 4/3) Clayey SILT to SILT, some fine to medium Sand at 5.0-5.5', soft. No odor.	
7		0						
8				wet	10	SP-SM		Reddish Brown (5YR 4/4) SILT and very fine SAND, trace coarse Sand, medium dense. No odor.
9			wet	10	SP-SM		No Recovery	
10		0						EF-B75 10.0
11	2.9	0	wet	10	SP-SM		Same as above.	
12		0						
13				moist	11	GM		Reddish Brown (2.5YR 4/4) fine to medium SAND and fine angular GRAVEL, little Silt, dense. No odor.
14			moist	11	GM		No Recovery	
15		0						
16	2.5	0	moist	11	GM		Same as above, with interbedded Silt and medium Sand.	
17		0						
18				moist	11	GM		No Recovery
19								
20								
21							End of boring at 20 ft.	
22								
23								
24								
25								
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35								

Comments: No COPR/GGM 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 Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611805.4
Date Started Drilling: 9/12/2012 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683603.4
Date Finished Drilling: 9/12/2012 12:35:00 PM	Core Size: 2 in	Boring Total Depth: 2 ft
Logged By: Ben Daniels	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street -EF-112		Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1			dry	ASPHALT FILL		ASPHALT	
1 - 2			dry	FILL		fine to coarse silty SAND, little fine to coarse gravel and fill material, (7.5YR 3/2) dark brown, dry, no odor, angular, (Glass, brick). 10% COPR.	EF-B112-1.0-1.5
2 - 2			dry	FILL		fine to coarse silty SAND, little fine to medium gravel little silt, (2.5YR 3/3) dark reddish brown (7.5YR 4/2) brown, dry, no odor, rounded, 90% COPR COBBLES, USCS 670 USCS 700	

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 Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611806
Date Started Drilling: 3/12/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683604
Date Finished Drilling: 3/12/2014 1:15:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street - EF-112A		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	
		0.0	dry	FILL		fine to medium SAND, with fine gravel, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor.	
		0.0		CONCRETE		CONCRETE	
2	5	0.0	slightly moist	FILL		COPR, some sand and silt, (5YR 4/3) reddish brown, non plastic, soft to loose, slightly moist, no odor, no staining.	EF-112A-2.0-2.5
		0.0	dry	FILL			
3	5	0.0		FILL		fine to coarse SAND, with fine gravel, (7.5YR 3/4) dark brown, non plastic, loose, dry, no odor, no staining.	EF-112A-4.0-4.5
4		0.0	slightly moist	FILL			
5	4.4	0.0	wet	FILL		fine silty SAND, trace brick, (10YR 5/8) yellowish brown, non plastic, soft, slightly moist, no odor, no staining.	EF-112A-6.0-6.5
6		0.0	moist	FILL			
7	4.4	0.0	wet	FILL		SILT, (10YR 4/4) dark yellowish brown, non plastic, soft, wet, no odor, no staining.	EF-112A-8.0-8.5
8		0.0		FILL			
9	4.4	0.0		NR		NO RECOVERY	
10		0.0		NR			
11	5	0.0	saturated	FILL		fine silty SAND, trace very fine gravel, (5YR 4/6) yellowish red, non plastic, soft, saturated, no odor, no staining.	EF-112A-10.0-10.5
12		0.0		FILL			
13	5	0.0		FILL			EF-112A-12.0-12.5
14		0.0	moist	SM			
15	3.5	0.0	wet	SM		UNDno fine to medium SAND, with fine gravel, (5YR 5/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sand. Soils consistent with UNDno.	EF-112A-14.0-14.5
16		0.0		SM			
17	3.5	0.0		SM		UNDno fine to medium SAND, with (5YR 5/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	EF-112A-16.0-16.5
18		0.0		SM			
19	3.5	0.0		NR		NO RECOVERY	EF-112A-18.0-18.5
20		0.0		NR			
21	3.5	0.0	wet	SM		UNDno fine to medium SAND, with (5YR 5/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	EF-112A-20.0-20.5

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

Comments:

PPG - 2012-08 RA PPG LOGS - A.GDT - 12/20/16 09:17

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611806
Date Started Drilling: 3/12/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683604
Date Finished Drilling: 3/12/2014 1:15:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street - EF-112A		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
5							EF-112A-22.0-22.5
23							
24							EF-112A-24.0-24.5
25		0.0	wet	SM		UNDno fine to medium SAND, with fine gravel, (5YR 5/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand, green stained water identified at 26.0-30.0 ft bgs. Soils consistent with UNDno.	EF-112A-26.0-26.5
26							
27	5						
28							EF-112A-28.0-28.5
29							
30		0.0	wet	SM		UNDno fine to medium SAND, with fine gravel, (5YR 5/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	EF-112A-30.0-30.5
31							
32	5						
33							EF-112A-32.0-32.5
34							
35		0.0	wet	SM		UNDno fine to medium SAND, with fine gravel, (5YR 5/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sand. Soils consistent with UNDno.	EF-112A-34.0-34.5
36							
37	5						
38							EF-112A-36.0-36.5
39							
40							EF-112A-38.0-38.5

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

Comments:

PPG - 2012-09 RA PPG_LOGS_A_GDT - 12/20/16 09:17

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611756.2
Date Started Drilling: 9/17/2012 9:38:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683651.2
Date Finished Drilling: 9/17/2012 11:10:00 AM	Core Size: 2 in	Boring Total Depth: 30 ft
Logged By: Ben Daniels	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street --EF-113		Surface Elevation: 10.6 ft NAVD 88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
				CONCRETE		CONCRETE	
1		0.0	wet	FILL		fine to coarse SAND, and fine to coarse gravel little silt, (7.5YR 3/1) very dark gray, wet, no odor, angular, Some fill material (Slag, concrete, coal)	EF-B113-0.5-1.0
		0.0	moist	FILL		fine SAND, little fine to coarse gravel and medium sand, (7.5YR 4/3) brown, moist, no odor, rounded, Trace fill material (coal, cinders)	EF-B113-1.0-1.5
2		0.6	moist	FILL		fine silty SAND, little fine to coarse gravel, (7.5YR 3/3) dark brown, moist, no odor, angular, Trace coal fragments.	EF-B113-2.0-2.5
3		0.0	wet	FILL		fine to coarse silty SAND, some fine to coarse gravel and fill material, (7.5YR 3/2) dark brown (10YR 2/2) very dark brown, wet, slight chemical odor, subangular, (Coal, slag, wood fragments, debris)	
4		0.0	moist	FILL		SILT, little fine to medium sand and fine to medium gravel, (7.5YR 4/1) dark gray, moist, no odor, subangular, Trace coal.	
5	3.6	0.0	moist	ML		SILT, little clay trace medium sand, (7.5YR 4/1) dark gray, stiff, moist, no odor	
6		0.0	wet	ML		SILT, (2.5Y 5/2) grayish brown, medium stiff, wet, no odor, Wet at 6.6.	
7		0.0	wet	ML		SILT, little fine sand, (2.5Y 5/3) light olive brown, stiff, wet, no odor	
8		0.0	moist	ML		SILT, (10YR 6/4) light yellowish brown, very stiff, moist, no odor	
9				NR		NO RECOVERY	
10	3.4	0.0	moist	ML		SILT, (10YR 6/4) light yellowish brown, stiff, moist, no odor	
11		0.0	wet	ML		SILT, little clay, (10YR 5/6) yellowish brown, stiff, wet, no odor	
12		0.0	wet	SW		fine to medium SAND, little fine to medium gravel, (2.5YR 5/4) reddish brown, dense, wet, no odor, subrounded	
13		0.0	wet	SW		fine to coarse SAND, little fine to medium gravel, (5YR 5/4) reddish brown, dense, wet, no odor, angular	
14				NR		NO RECOVERY	
15	2.5	0.0	wet	SW		fine to coarse SAND, little fine to coarse gravel, (2.5YR 5/4) reddish brown, dense, wet, no odor, subangular	
16		0.0	wet	SP		medium SAND, (2.5YR 5/4) reddish brown, dense, wet, no odor	
17		0.0	wet	GW		fine to coarse SAND, and fine to coarse gravel, (5YR 5/4) reddish brown, dense, wet, no odor, angular	
18				NR		NO RECOVERY	
19							
20	2.8	0.0	wet	GP		fine SAND, little fine gravel, (2.5YR 5/4) reddish brown, dense, wet, no odor, angular	
21		0.0	wet	ML		SILT, little clay, (5YR 5/4) reddish brown, dense, wet, no odor	
		0.0	wet	SP		fine SAND, (5YR 5/4) reddish brown, dense, wet, no odor	

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

Comments:

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/20/16 09:17

Project Name: PPG Soil RIWP	Drilling Company: SGS North America	
Project Number: 6015-4801	Drilling Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD83) x: 611756.2
Date Started Drilling: 9/17/2012 9:38:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683651.2
Date Finished Drilling: 9/17/2012 11:10:00 AM	Core Size: 2 in	Boring Total Depth: 30 ft
Logged By: Ben Daniels	Project Manager: Robert Cataldo	Depth to Water: NA
Physical Location: Forrest Street --EF-113		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23		0.0	wet	GP		fine SAND, and fine to medium gravel little medium to coarse sand, (5YR 5/4) reddish brown, dense, wet, no odor, angular	EF-B113-22.2-22.7
24				NR		NO RECOVERY	
25	2.9		wet	SP-SM		fine silty SAND, and fine to coarse gravel little medium to coarse sand, (2.5YR 5/3) reddish brown, dense, wet, no odor, angular	EF-B113-25.0-25.5
26			wet	SM		fine silty SAND, some fine to coarse gravel little medium to coarse sand, (2.5YR 5/4) reddish brown, medium dense, wet, no odor, angular	
27			wet	SM		fine SAND, little silt, (5YR 5/4) reddish brown, dense, wet, no odor	
28				NR		NO RECOVERY	
29							
30							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611797.3
Date Started Drilling: 2/24/2014 12:41:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683601.6
Date Finished Drilling: 2/25/2014 12:41:00 PM	Core Size: 3.0 in	Boring Total Depth: 40.5 ft
Logged By: FM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS6		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-3	5	0.0	damp	ASPHALT		ASPHALT	FS6-0.0-0.5
		0.0		FILL		fine to coarse gravelly SAND, dark gray and reddish brown layers of mixed backfill material, trace silt, 20% COPR nodules, 60-70% fine gravel, angular, damp, no odor, reddish brown staining.	FS6-2.0-2.5
		0.0	damp to moist	FILL		fine to coarse sandy CINDERS, dark gray, ash and slag, damp to moist, brick fragments, glass fragments, loose, no odor.	FS6-4.0-4.5
5-7	5	0.0	damp to moist	FILL		fine to coarse sandy CINDERS, dark gray and brown layers, some silt, becoming more sandy with depth, dark brown medium sand at 6.0 ft, damp to moist, no odor.	FS6-6.0-6.5
		0.0	moist wet	FILL			
		0.0	wet	SM		fine to medium silty SAND, reddish-brown, firm and pliable, wet, thin gray bands of clayey silt. Soil consistent with UNDno.	FS6-8.0-8.5
10-14	5	0.0	moist to wet	SM		fine to medium silty SAND, reddish-brown firm and pliable, moist to wet, no odor. Soil consistent with UNDno.	FS6-10.0-10.5
		0.0	wet	SP-SM		fine silty SAND, reddish-brown, poorly sorted, trace angular gravel, wet, firm, pliable, no odor. Soil consistent with UNDno.	FS6-12.0-12.5
		0.0	wet	ML		fine to coarse silty SAND, reddish-brown, some rounded gravel, wet, soft, loose, no odor. Soil consistent with UNDno.	FS6-14.0-14.5
15-18	5	0.0	wet to very wet	SM		fine silty SAND, reddish-brown, 40% rounded gravel, poorly sorted, wet to very wet. Soil consistent with UNDno.	FS6-16.0-16.5
							FS6-18.0-18.5
20-22	5	0.0	wet	SM		fine to medium silty SAND, reddish-brown, poorly sorted, some fine gravel, loose, wet, soft, no odor. Soil consistent with UNDno.	FS6-20.0-20.5
		0.0	wet	SM		fine silty SAND, reddish-brown, trace fine gravel, slightly firm, harder, 40% silt, wet, no odor. Soil consistent with	FS6-22.0-22.5

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: Geoprobe	Coordinates (NJSPNAD83) x: 611797.3
Date Started Drilling: 2/24/2014 12:41:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683601.6
Date Finished Drilling: 2/25/2014 12:41:00 PM	Core Size: 3.0 in	Boring Total Depth: 40.5 ft
Logged By: FM	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS6		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
24						UNDno.	FS6-24.0-24.5
25	5	0.0	wet	SM		fine silty SAND, reddish-brown, 20% silt, some clay, firm, hard, well sorted, wet, no odor. Soil consistent with UNDno.	FS6-26.0-26.5
26							FS6-28.0-28.5
27							FS6-30.0-30.5
28	5	0.0	wet	SC-SM		fine clayey SAND, reddish-brown, some silt, soft, pliable, wet, no odor. Soil consistent with UNDno.	FS6-32.0-32.5
29							FS6-34.0-34.5
30							FS6-36.0-36.5
31	5.5	0.0	damp to moist	SC-SM		fine clayey SAND, reddish-brown, 40% clay particles, trace silt, firm, hard, well sorted, damp to moist, no odor. Soil consistent with UNDno.	FS6-38.0-38.5
32							FS6-40.0-40.5
33							
34	5.5	0.0	moist to wet	SM		fine silty SAND, reddish-brown, 50% silt, loose, firm, hard, moist to wet, no odor. Soil consistent with UNDno.	FS6-37.0-37.5
35							FS6-38.0-38.5
36							FS6-40.0-40.5
37	5.5	0.0	wet	SC-SM		fine clayey SAND, reddish-brown, some silt, soft, pliable, wet, no odor. Soil consistent with UNDno.	FS6-39.0-39.5
38							
39							
40							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611806.8
Date Started Drilling: 2/24/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683607.1
Date Finished Drilling: 2/24/2014 10:47:00 AM	Core Size: 3.0 in	Boring Total Depth: 40.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS7		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		ASPHALT		ASPHALT	FS7-0.0-0.5
		0.0	damp to moist	FILL		fine to coarse silty SAND, with some fine to medium gravel, dark gray, damp to moist, no odor or visible COPR.	FS7-2.0-2.5
2	5	0.0	damp to moist	FILL		clayey SILT, dark gray with light gray layering, trace ash and cinders, pliable, firm, damp to moist, no odor or visible staining.	FS7-4.0-4.5
3							
4	5	0.0	moist to wet	ML		clayey SILT, light to medium gray, firm and pliable, some fine to medium brown sand.	FS7-6.0-6.5
5							
6	5	0.0	moist to wet	ML		clayey SILT, grayish brown, hard to firm, moist to wet, some fine to very fine sand, no odor or visible staining.	FS7-8.0-8.5
7							
8	5	0.0	wet	SM		fine to medium silty SAND, reddish-brown fine silty sand, wet, soft, loose, no odor or staining. Soil consistent with UNDno.	FS7-10.0-10.5
9							
10	5	0.0	damp to moist	GM		fine to medium gravelly SAND, reddish-brown silty matrix, damp to moist, loose, poorly sorted. Soil consistent with UNDno.	FS7-12.0-12.5
11							
12	5	0.0	moist	GM		fine to medium silty SAND, reddish-brown silty sand, soft, loose, non-pliable, moist. Soil consistent with UNDno.	FS7-14.0-14.5
13							
14	5	0.0	wet	GM		fine to medium gravelly SILT, reddish-brown, wet, 50% medium angular gravel, wet, some reddish-brown medium grain sand. Soil consistent with UNDno.	FS7-16.0-16.5
15							
16	5	0.0	wet	GM		fine to medium gravelly SILT, reddish-brown, some medium reddish-brown sand, wet, loose, larger diameter angular gravel. Soil consistent with UNDno.	FS7-18.0-18.5
17							
18	5	0.0	wet	GM		fine to medium gravelly SILT, reddish-brown, some medium reddish-brown sand, wet, loose, larger diameter angular gravel. Soil consistent with UNDno.	FS7-20.0-20.5
19							
20	5	0.0	wet	GM		fine to medium gravelly SILT, reddish-brown, some medium reddish-brown sand, wet, loose, larger diameter angular gravel. Soil consistent with UNDno.	FS7-22.0-22.5
21							
22	5	0.0	wet	GM		fine to medium gravelly SILT, reddish-brown, some medium reddish-brown sand, wet, loose, larger diameter angular gravel. Soil consistent with UNDno.	FS7-22.0-22.5
22							

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611806.8
Date Started Drilling: 2/24/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683607.1
Date Finished Drilling: 2/24/2014 10:47:00 AM	Core Size: 3.0 in	Boring Total Depth: 40.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS7		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
24		0.0	wet to very wet	SM		fine to medium silty SAND, reddish-brown, trace fine angular gravel, loose, soft, non-pliable, wet to very wet. Soil consistent with UNDno.	FS7-24.0-24.5	
25	5	0.0	wet	SM		fine silty SAND, reddish-brown, firm, non-pliable, wet, hard, no odor or staining. Soil consistent with UNDorg.	FS7-26.0-26.5	
26							FS7-28.0-28.5	
27								
28								
29								
30	5	0.0	wet	SM		fine silty SAND, reddish-brown, wet, hard, firm, no odor. Soil consistent with UNDno.	FS7-30.0-30.5	
31							FS7-32.0-32.5	
32								
33		0.0	wet	SM		fine to medium silty SAND, reddish-brown, sand becoming coarser, loose, wet, soft, greater percent of medium sand, no odor. Soil consistent with UNDno.	FS7-34.0-34.5	
34								
35	5.5	0.0	moist to wet	SM	fine to medium silty SAND, reddish-brown, firm, hard, moist to wet, no odor or staining. Soil consistent with UNDno.	FS7-36.0-36.5		
36							FS7-38.0-38.5	
37								
38								
39								
40						FS7-40.0-40.5		

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: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611854.4
Date Started Drilling: 2/28/2014 9:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683648.6
Date Finished Drilling: 2/28/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS8		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4.5	0.0		ASPHALT		ASPHALT, no staining.	FS8-0.0-0.5
		0.0	dry	FILL		fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining.	FS8-2.0-2.5
		0.0	dry to moist	FILL		fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish brown, non plastic, loose, dry to moist, no odor, no staining.	
		0.0	dry to moist	FILL		fine SAND, some silt, (7.5YR 4/6) strong brown, non plastic, soft, dry to slightly moist, no odor, no staining.	
2		0.0	dry to moist			fine to medium SAND, some silt, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
3			moist				
4			moist				
5				NR		NO RECOVERY	FS8-4.0-4.5
6	5	0.0	moist	FILL		fine to medium SAND, some silt, little ash, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	FS8-6.0-6.5
7		0.0	moist to wet	FILL		SILT, little sand and fill material, (7.5YR 2.5/2) very dark brown, non plastic, soft, moist to wet, no odor, no staining.	
8							
9							
10							
11	4.8	0.0	wet	FILL		fine to medium SAND, some fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS8-10.0-10.5
12		0.0	moist	SM		UNDno medium SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft, moist, no odor, no staining, red fine sands. Soil consistent with UNDno.	FS8-12.0-12.5
13							
14							
15				NR		NO RECOVERY	
16	1.8	0.0	wet	SM		UNDno fine to medium SAND, little fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soil consistent with UNDno.	FS8-16.0-16.5
17				NR		NO RECOVERY	
18							
19							
20							
21		0.0	wet	SM		UNDno fine to medium SAND, some medium gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining. Soil consistent with UNDno.	FS8-20.0-20.5

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

Comments: No COPR/GGM identified.

PPG - 2012-08 RA PPG LOGS - A.GDT - 12/20/16 09:57

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611854.4
Date Started Drilling: 2/28/2014 9:25:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683648.6
Date Finished Drilling: 2/28/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS8		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	4.8						FS8-22.0-22.5
24-25							FS8-24.0-24.5
25-26		0.0	saturated	NR SM		NO RECOVERY UNDno fine SAND, (5YR 4/4) reddish brown, non plastic soft, saturated, no odor, no staining. Soil consistent with UNDno.	FS8-26.0-26.5
26-27	3.5						FS8-28.0-28.5
27-28							FS8-28.0-28.5
28-29				NR		NO RECOVERY	
29-30							FS8-30.0-30.5
30-31		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brown, non plastic, soft, saturated, no odor, no staining. Soil consistent with UNDno.	FS8-30.0-30.5
31-32	5						FS8-32.0-32.5
32-33							FS8-34.0-34.5
33-34							FS8-34.0-34.5
34-35							FS8-34.0-34.5
35-36		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brown, non plastic, soft, saturated, no odor, no staining. Soil consistent with UNDno.	FS8-36.0-36.5
36-37	5						FS8-36.0-36.5
37-38							FS8-38.0-38.5
38-39							FS8-38.0-38.5
39-40							

Notes:

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611856.1
Date Started Drilling: 3/5/2014 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683655.9
Date Finished Drilling: 3/5/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS9		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-4	4.3	0.0		ASPHALT		ASPHALT		
		0.0	dry to moist	FILL		fine to medium SAND, with fine to medium gravel, (7.5YR 3/1) very dark gray, non plastic, loose, dry to moist, no odor, no staining.	FS9-0.3-0.8	
								FS9-2.0-2.5
				NR		NO RECOVERY		FS9-4.0-4.5
5-9	3.8	0.0	wet	FILL		fine to medium SAND, with silt and tar-like material/fill material, (7.5YR 2.5/1) black, non plastic, soft, wet, slight tar-like odor.	FS9-6.0-6.5	
		0.0	wet to saturated	FILL		SILT, some fine sand, (10YR 5/2) grayish brown, non plastic, soft, wet to saturated, no odor, no staining.	FS9-8.0-8.5	
				NR		NO RECOVERY		
10-14	3	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS9-10.0-10.5	
								FS9-12.0-12.5
				NR		NO RECOVERY		
15-20	5	0.0	wet	FILL		fine to medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.		
		0.0	wet	SM		UNDno fine to medium SAND, with coarse gravel, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS9-16.0-16.5	
								FS9-18.0-18.5
20-22	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS9-20.0-20.5	
								FS9-22.0-22.5

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: No COPR/GGM identified.

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/15/16 23:25

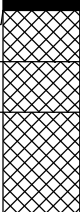
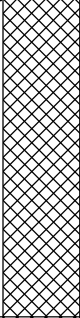
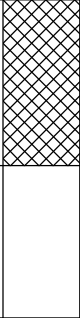
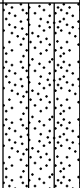
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611856.1
Date Started Drilling: 3/5/2014 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683655.9
Date Finished Drilling: 3/5/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS9		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
24							FS9-24.0-24.5
25	5	0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brown, non plastic, soft, saturated, no odor, no staining. Soils consistent with UNDno.	FS9-26.0-26.5
26							FS9-28.0-28.5
27							
28							
29							
30	5	0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brown, non plastic, soft, saturated, no odor, no staining. Soils consistent with UNDno.	FS9-30.0-30.5
31							FS9-32.0-32.5
32							
33							
34							
35	5	0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brown, non plastic, soft, saturated, no odor, no staining. Soils consistent with UNDno.	FS9-34.0-34.5
36							FS9-36.0-36.5
37							
38							FS9-38.0-38.5
39							
40							

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611839.5
Date Started Drilling: 3/4/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683634.1
Date Finished Drilling: 3/4/2014 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 40.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS10		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
1-2	4.6	0.0	dry to moist dry	ASPHALT		ASPHALT	FS10-0.3-0.8		
		0.0		FILL		fine to medium SAND, with fine to medium gravel, (7.5YR 4/2) brown, non plastic, loose, dry to moist, no odor, no staining.			
		0.0	dry to slight moist	FILL		fine SAND, with ash and gravel, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	FS10-2.0-2.5		
		0.0		FILL		fine to medium SAND, little silt and ash, (7.5YR 3/1) very dark gray, non plastic, loose, dry to slightly moist, no odor, no staining.			
5	5	0.0	dry to slight moist	NR		NO RECOVERY	FS10-4.0-4.5		
6		FILL		fine to medium SAND, little ash and fill material, (7.5YR 2.5/3) very dark brown, non plastic, soft, dry to slightly moist, no odor, no staining.					
7									FS10-6.0-6.5
8									
10	2.6	0.0	wet	FILL		fine to medium SAND, little silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS10-10.0-10.5		
11								FS10-12.0-12.5	
12									
13				NR		NO RECOVERY			
15	0			NR		NO RECOVERY			
16									
17									
18									
20	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining.	FS10-20.0-20.5		
21								FS10-22.0-22.5	
22									

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611839.5
Date Started Drilling: 3/4/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683634.1
Date Finished Drilling: 3/4/2014 2:30:00 PM	Core Size: 3 in	Boring Total Depth: 40.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS10		Surface Elevation: 10.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
24							FS10-24.0-24.5
25	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining.	FS10-26.0-26.5
26							FS10-28.0-28.5
27							
28							
29							
30	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining.	FS10-30.0-30.5
31							FS10-32.0-32.5
32							
33							
34							
35	5.5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining.	FS10-34.0-34.5
36							FS10-36.0-36.5
37							
38							FS10-38.0-38.5
39							
40							FS10-40.0-40.5

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: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America
Project Number: 60240739	Drilling Method: Geoprobe
Date Started Drilling: 2/12/2014 11:00:00 AM	Rig Type:
Date Finished Drilling: 2/12/2014 4:00:00 PM	Core Size: 3 in
Logged By: EW	Project Manager: Scott Mikaelian
Physical Location: Forrest Street - FS11	Surface Elevation: 10.9 ft NAVD88
Coordinates (NJSPNAD83) x: 611900.6	
Coordinates (NJSPNAD83) y: 683651.1	
Boring Total Depth: 35 ft	
Depth to Water: NA	

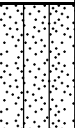
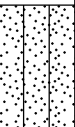
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0	dry	FILL		fine to medium gravelly SAND, (5YR 5/6) yellowish red, non plastic, loose, dry, no odor, no staining. medium to coarse SAND, trace fine to medium gravel, trace silt, (7.5YR 3/2) dark brown, non plastic, soft, dry to moist, no odor, no staining.	FS11-0.0-0.5
		0.0	dry to moist	FILL			FS11-2.0-2.5
							FS11-4.0-4.5
				NR			NO RECOVERY
5-9	5	0.0	moist	FILL		fine SAND, some silt, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	FS11-6.0-6.5
							FS11-8.0-8.5
10-14	5	0.0	moist to wet	FILL		medium SAND, little fine to medium gravel, (7.5YR 4/2) brown, non plastic, soft to loose, moist to wet, no odor, no staining.	FS11-10.0-10.5
							FS11-12.0-12.5
							FS11-14.0-14.5
15-19	5	0.0	wet	SM		UNDno fine to medium SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS11-16.0-16.5
		0.0	wet	SM			FS11-18.0-18.5
20-22	5	0.0	wet	SM		fine SAND, with silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS11-20.0-20.5
							FS11-22.0-22.5

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: No COPR/GGM identified.

PPG - 2012-08 RA PPG LOGS_A.GDT - 12/15/16 23:24

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611900.6
Date Started Drilling: 2/12/2014 11:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683651.1
Date Finished Drilling: 2/12/2014 4:00:00 PM	Core Size: 3 in	Boring Total Depth: 35 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS11		Surface Elevation: 10.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
24							FS11-24.0-24.5
25	3.5	0.0	wet	SM		fine SAND, with silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS11-25.0-25.5
26							FS11-26.0-26.5
27							FS11-27.0-27.5
28							FS11-28.0-28.5
29				NR		NO RECOVERY	
30	5	0.0	wet	SM		fine SAND, with silt, (5YR 4/4) reddish brown, non plastic, wet, no odor, no staining. Soils consistent with UNDno.	FS11-30.0-30.5
31							FS11-31.0-31.5
32							FS11-32.0-32.5
33							FS11-33.0-33.5
34							FS11-34.0-34.5
35							

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611900.3
Date Started Drilling: 2/11/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.1
Date Finished Drilling: 2/12/2014 9:10:00 AM	Core Size: 3 in	Boring Total Depth: 45 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS12		Surface Elevation: 10.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0	dry to moist	FILL		medium SAND, (7.5YR 2.5/1) black, non plastic, soft to loose, dry to moist, no odor, no staining.	FS12-0.0-0.5
		0.0	moist	FILL		fine to medium gravelly SAND, some cinders and ash, (7.5YR 3/1) very dark gray, non plastic, loose, moist, no odor, no staining.	FS12-2.0-2.5
		0.0	moist	FILL		fine to medium SAND, trace gravel, (7.5YR 2.5/3) very dark brown, non plastic, soft, moist, no odor, no staining.	FS12-4.0-4.5
				NR		NO RECOVERY	
5-8	5	1.4 15.3	moist to wet	FILL		fine to medium SAND, with medium gravel, (7.5YR 2.5/1) black, non plastic, loose, moist to wet, sheen, slight petroleum-like odor.	FS12-6.0-6.5
		0.8	wet	FILL		SILT, (7.5YR 2.5/1) black, non plastic, soft, wet, slight sheen and petroleum-like odor.	
				NR		NO RECOVERY	
10-15	4.5	0.0	wet	FILL		SILT, (7.5YR 4/1) dark gray, non plastic, soft, wet, no odor, no staining.	FS12-10.0-10.5
		0.0	moist	FILL		fine silty SAND, with fine to medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, moist, no odor, no staining.	FS12-12.0-12.5
				NR		NO RECOVERY	
				NR		NO RECOVERY	
16-19	4	0.0	moist	SM		UNDno medium SAND, with medium gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, moist, no odor, no staining. Soils consistent with UNDno.	FS12-16.0-16.5
				NR		NO RECOVERY	
				NR		NO RECOVERY	
20-22	5	0.0	wet	SM		SAND, some silt, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS12-20.0-20.5

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611900.3
Date Started Drilling: 2/11/2014 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.1
Date Finished Drilling: 2/12/2014 9:10:00 AM	Core Size: 3 in	Boring Total Depth: 45 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS12		Surface Elevation: 10.9 ft NAVD88

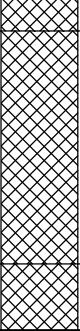
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
24							FS12-24.0-24.5
25	5	0.0	wet	SM		SAND, some silt, (5YR 4/4) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS12-26.0-26.5
26							FS12-28.0-28.5
27							
28							
29							
30	5	0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brown, non plastic, dense, moist, no odor, no staining. Soils consistent with UNDno.	FS12-30.0-30.5
31							FS12-32.0-32.5
32							
33							
34							FS12-34.0-34.5
35	5	0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brown, non plastic, moist, no odor, no staining. Soils consistent with UNDno.	FS12-36.0-36.5
36							FS12-38.0-38.5
37							
38							
39							
40	2	0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brown, non plastic, moist, no odor, no staining. Soils consistent with UNDno.	FS12-40.0-40.5
41							
42						NR	
43							
44							
45							

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

Comments: No COPR/GGM identified.

PPG - 2012-08 RA PPG LOGS - A.GDT - 12/15/16 23:25

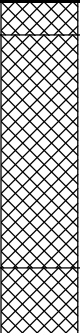
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611903.3
Date Started Drilling: 9/8/2016 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683699.5
Date Finished Drilling: 9/8/2016 8:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 11.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0	dry	FILL		fine to medium GRAVEL, little fine to medium sand and fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. CINDERS and ASH, (2.5Y 4/2) dark grayish brown, loose, dry, no odor, no staining.	FS12A-0.0-0.5
			dry	FILL			FS12A-2.0-2.5
			moist	FILL			fine to medium SAND, trace fill debris, (5YR 3/3) dark reddish brown, medium dense, moist, no odor, no staining.
5							

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

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




Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611893.9
Date Started Drilling: 9/8/2016 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683696.2
Date Finished Drilling: 9/8/2016 9:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 11.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0	dry	FILL		fine to medium SAND, some fine gravel, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. ASH, little cinders, (7.5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	FS12B-0.0-0.5
			dry	FILL			FS12B-2.0-2.5
			dry	FILL			fine to medium SAND, trace fill debris, (5YR 3/3) dark reddish brown, medium dense, dry, no odor, no staining.
5							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611895
Date Started Drilling: 9/8/2016 9:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683683.5
Date Finished Drilling: 9/8/2016 9:25:00 AM	Core Size: 3.0 in	Boring Total Depth: 5 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 10.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4 5	5	0.0	dry	FILL		fine to medium SAND, some gravel, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	FS12C-0.0-0.5
			dry	FILL		ASH, some cinders, (5Y 5/1) gray, medium dense, dry, no odor, no staining.	FS12C-2.0-2.5
			dry	FILL		fine to medium SAND, little ash, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.	
5							

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611927.8
Date Started Drilling: 2/6/2014 2:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683677.4
Date Finished Drilling: 2/10/2014 4:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS13		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	dry to moist	FILL		fine to medium SAND, with medium gravel, (7.5YR 2.5/1) black, non plastic, loose to hard, dry to moist, no odor, no staining.	FS13-0.0-0.5	
2		0.0	moist	FILL		medium SAND, some fine gravel, (7.5YR 3/4) dark brown, non plastic, loose, moist, no odor, no staining.	FS13-2.0-2.5	
3								FS13-4.0-4.5
4								
5	4.5	0.0	moist	FILL		fine to medium SAND, little silt, (7.5YR 2.5/2) very dark brown, non plastic, hard, moist, no odor, no staining.	FS13-6.0-6.5	
6		0.0	moist	FILL		SILT, some sand, (7.5YR 3/2) dark brown, non plastic, soft to hard, moist, no odor, no staining.	FS13-8.0-8.5	
7								
8								
9								
10				NR		NO RECOVERY		
11	5	0.0	moist	FILL		SILT, some sand, (7.5YR 3/2) dark brown, non plastic, soft to hard, moist, no odor, no staining.	FS13-10.0-10.5	
12								FS13-12.0-12.5
13								
14	0.0	wet	FILL		medium SAND, with gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining.	FS13-14.0-14.5		
15								
16	5	0.0	wet	SM		fine SAND, and silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FS13-16.0-16.5	
17		0.0	wet	GM			fine to medium gravelly SAND, (5YR 4/3) reddish brown, non plastic, dense, wet, no odor, no staining. Soils consistent with UNDno.	FS13-18.0-18.5
18		0.0	moist to wet	SM			medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, dense, moist to wet, no odor, no staining. Soils consistent with UNDno.	FS13-18.0-18.5
19								
20		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, dense, slightly moist, no odor, no staining. Soils consistent with UNDno.	FS13-20.0-20.5	
21								

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611927.8
Date Started Drilling: 2/6/2014 2:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683677.4
Date Finished Drilling: 2/10/2014 4:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS13		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
23-24	5						FS13-22.0-22.5
24-25							FS13-24.0-24.5
25-26		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, slightly moist, no odor, no staining. Soils consistent with UNDno.	FS13-26.0-26.5
26-27	5						FS13-28.0-28.5
27-28							FS13-28.0-28.5
28-29							FS13-28.0-28.5
29-30							FS13-28.0-28.5
30-31		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, dense, slightly moist, no odor, no staining. Soils consistent with UNDno.	FS13-30.0-30.5
31-32	5						FS13-32.0-32.5
32-33							FS13-32.0-32.5
33-34							FS13-34.0-34.5
34-35							FS13-34.0-34.5
35-36		0.0		SM		Soils consistent with UNDno.	FS13-36.0-36.5
36-37	5						FS13-36.0-36.5
37-38							FS13-36.0-36.5
38-39							FS13-38.0-38.5
39-40							FS13-38.0-38.5

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: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611684.6
Date Started Drilling: 3/17/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683680.2
Date Finished Drilling: 3/17/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS18		Surface Elevation: 11.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	4.5	0.0	dry	FILL		fine to medium SAND, with medium gravel and dense grade aggregate, (7.5YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	FS18-0.0-0.5	
2		0.0	dry to slight moist	FILL			fine silty SAND, with fine to medium gravel, (7.5YR 3/2) dark brown, non plastic, soft, dry to slightly moist, no odor, no staining.	FS18-2.0-2.5
3		0.0	slightly moist	FILL			COPR, with fine sand, (5YR 3/4) dark reddish brown, non plastic, soft, slightly moist, no odor, no staining.	
4		0.0	slightly moist	FILL			fine to medium SAND, with ash and cinders, (7.5YR 3/1) very dark gray, non plastic, loose, slightly moist, no odor, no staining.	
5		0.0	slightly moist	FILL			fine SAND, trace silt with cinders, (10YR 4/2) dark grayish brown, non plastic, loose, slightly moist, no odor, no staining.	FS18-4.0-4.5
5	3.5	0.0	moist	FILL		fine SAND, and silt, (7.5YR 4/2) brown, non plastic, soft to loose, moist, no odor, no staining.	FS18-6.0-6.5	
6		29.4	moist	FILL				SILT, with cinders, trace fine sand, (7.5YR 2.5/1) black, non plastic, moist, no staining, MGP-like material with tar-like odors.
7		0.0	wet	FILL			medium SAND, with fine gravel, (7.5YR 5/8) strong brown, non plastic, soft to loose, wet, no odor, no staining.	FS18-8.0-8.5
8				NR			NO RECOVERY	
9	5	0.0	moist	FILL		fine to medium SAND, trace fine gravel, (7.5YR 2.5/3) very dark brown, non plastic, loose, moist, no odor, no staining.	FS18-10.0-10.5	
10		16.5	moist	FILL			fine SAND, trace fine to medium gravel, (7.5YR 2.5/1) black, non plastic, soft, moist, slight tar odor, no staining.	FS18-12.0-12.5
11		0.0	wet	FILL			fine silty SAND, (7.5YR 4/2) brown, non plastic, soft, wet, no odor, no staining.	FS18-14.0-14.5
12				NR			NO RECOVERY	
13	4	0.0	moist to wet	SM		medium SAND, with fine to medium gravel, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-16.0-16.5	
14		0.0	moist to wet	SM			medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-18.0-18.5
15				NR			NO RECOVERY	
16		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-20.0-20.5	
17			NR	NO RECOVERY				
18		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-21.0-21.5	
19			NR	NO RECOVERY				
20		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-22.0-22.5	
21			NR	NO RECOVERY				

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

Comments:









Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611684.6
Date Started Drilling: 3/17/2014 8:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683680.2
Date Finished Drilling: 3/17/2014 12:30:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS18		Surface Elevation: 11.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	5						FS18-22.0-22.5
24-25							FS18-24.0-24.5
25-26		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-26.0-26.5
26-27	4						FS18-28.0-28.5
27-28							
28-29				NR		NO RECOVERY	
29-30							FS18-30.0-30.5
30-31		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-32.0-32.5
31-32	4.5						FS18-34.0-34.5
32-33							
33-34				NR		NO RECOVERY	
34-35							FS18-36.0-36.5
35-36		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown, non plastic, loose, moist to wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FS18-36.0-36.5
36-37	4						FS18-38.0-38.5
37-38							
38-39				NR		NO RECOVERY	
39-40							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611755.7
Date Started Drilling: 9/25/2013 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.2
Date Finished Drilling: 9/25/2013 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: M. Irving	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS19		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4	0.0		CONCRETE		CONCRETE, trace COPR (see note).	FS-CC19-0.0-0.5
		0.0	dry	FILL		medium SAND, with cinders, little coal, trace COPR (see note), (5YR 3/3) dark reddish brown, loose, dry, no odor, no staining.	FS-B19-0.5-1.0
		0.0	slightly moist	FILL		fine to medium silty SAND, with cinders, coal, (7.5YR 2.5/1) black, loose to dense, slightly moist, no odor, no staining.	FS-B19-1.5-2.0
		0.0	moist	FILL NR		fine silty SAND, little coal, trace fine gravel, (10YR 3/6) dark yellowish brown, dense to soft, moist, no odor. NO RECOVERY	FS-B19-3.5-4.0
5-8	5	0.0	moist to wet	FILL		SILT, some fine sand, little coarse gravel, (5YR 4/3) reddish brown, soft, moist to wet, no odor, no staining.	FS-B19-5.5-6.0
		0.0	dry to slight moist	FILL		fine silty SAND, little coarse gravel, trace coal, cinders, (10YR 5/6) yellowish brown, dense to soft, dry to slightly moist, no odor, no staining.	FS-B19-7.5-8.0
							FS-B19-9.5-10.0
11-14	5	0.0	dry to slight moist	FILL		fine silty SAND, little coarse gravel, trace coal, cinders, (10YR 5/6) yellowish brown, dense to soft, dry to slightly moist, no odor, no staining.	FS-B19-11.5-12.0
							FS-B19-12.8-13.3
		0.0	wet	SP-SC		UNDno fine to medium SAND, some fine to coarse gravel, (2.5YR 4/4) reddish brown, loose, wet, no odor, no staining, rounded poorly graded. Soils consistent with UNDno.	FS-B19-13.3-13.8
<p>NOTE: Verification test pit FSTP4 was advanced to 2' bgs at this location and no COPR was observed.</p>							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611780.9
Date Started Drilling: 9/25/2013 10:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683719.9
Date Finished Drilling: 9/25/2013 1:05:00 PM	Core Size: 3 in	Boring Total Depth: 15 ft
Logged By: M. Irving	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS20		Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		CONCRETE		CONCRETE		
1	5	0.0	slightly moist	FILL		medium to coarse SAND, with medium to coarse gravel and cinders, some coal, (7.5YR 2.5/3) very dark brown, loose, slightly moist, no odor, no staining.	FS-B20-0.5-1.0	
2		0.0	moist	FILL		medium silty SAND, with medium to coarse gravel, some cinders, coal, trace wood fragments, (7.5YR 2.5/1) black, loose to dense, moist, no odor, no staining.	FS-B20-1.5-2.0	
3								
4								FS-B20-3.5-4.0
5	5	0.0	moist	FILL		medium silty SAND, with medium to coarse gravel, some cinders, coal, (7.5YR 2.5/1) black, loose to dense, moist, no odor, no staining.	FS-B20-5.5-6.0	
6		0.0	moist	FILL		fine to medium silty SAND, some fine to medium gravel, (7.5YR 4/2) brown, loose to dense, moist, no odor, no staining.		
7								
8		0.0	slightly moist	FILL		SILT, with fine sand, little roots, trace wood fragments, (7.5YR 2.5/2) very dark brown, soft to stiff, slightly moist, no odor, no staining.	FS-B20-7.5-8.0	
9								
10	5	0.0	slightly moist	SM		UNDno fine SAND, little silt, (10YR 5/6) yellowish brown, dense, slightly moist, no odor, no staining. Soils consistent with UNDno.	FS-B20-9.5-10.0	
11								
12								FS-B20-10.0-10.5
13								
14		0.0	dry	SP		UNDno fine to coarse SAND, with fine to coarse gravel, trace silt, (2.5YR 4/4) reddish brown, loose to hard, dry, no odor, no staining. Soils consistent with UNDno.		
15								

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611814.4
Date Started Drilling: 6/4/2015 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683665.4
Date Finished Drilling: 6/4/2015 4:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS21		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	5	0.0	dry	3	FILL		ASH and CINDERS, (5YR 4/2) dark reddish gray, dry, no odor, no staining.	FS21-0.0-0.5
		0.0	dry	3	FILL			FS21-0.0-0.5X
		0.0	dry	3	FILL			fine to medium SAND, (7.5YR 3/2) dark brown, dry, no odor, no staining.
		0.0	dry	3	FILL			ASH and CINDERS, (5YR 4/2) dark reddish gray, dry, no odor, no staining.
2	5	0.0	wet	3	FILL		fine to medium SAND, (7.5YR 3/2) dark brown, dry, no odor, no staining.	FS21-2.0-2.5
								0.0
3	5	0.0	wet	3	FILL		NO RECOVERY.	FS21-39.5-40.0
								0.0
4	5	0.0	wet	3	FILL		medium SAND, some silt, (7.5YR 4/1) dark gray, wet, no odor, no staining.	FS21-6.0-6.5
								0.0
5	5	0.0	wet	3	FILL		fine SAND, some silt, (5YR 4/2) dark reddish gray, wet, no odor, no staining.	FS21-8.0-8.5
								0.0
6	5	0.0	wet	9	SM		UNDno fine SAND, little silt, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS21-10.0-10.5
								0.0
7	5	0.0	wet	9	SM		UNDno medium to coarse SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS21-14.0-14.5
								0.0
8	5	0.0	wet	9	SM		UNDno medium to coarse SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS21-18.0-18.5
								0.0
9	3.5	0.0	wet	9	SM		UNDno medium to coarse SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS21-20.0-20.5
								0.0

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

Comments:

PPG - 2012-09 RA PPG LOGS - A.GDT - 12/20/16 10:22

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611814.4
Date Started Drilling: 6/4/2015 9:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683665.4
Date Finished Drilling: 6/4/2015 4:00:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS21		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
23-24	4.5							FS21-22.0-22.5
24-25				9	SM		NO RECOVERY.	FS21-24.0-24.5
25-26		0.0	wet	9	SM		UNDno fine SAND,with medium gravel,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS21-26.0-26.5
26-27	5							FS21-28.0-28.5
27-28								
28-29								
29-30								
30-31		0.0	wet	9	SM		UNDno fine SAND,with medium gravel, (5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS21-30.0-30.5
31-32	5							FS21-32.0-32.5
32-33								
33-34								FS21-34.0-34.5
34-35								
35-36		0.0	wet	9	SM		UNDno fine SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS21-36.0-36.5
36-37	5							FS21-38.0-38.5
37-38								
38-39								
39-40								

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

Comments:

PPG - 2012-09 RA PPG_LOGS_A_GDT - 12/20/16 10:22

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611846.4
Date Started Drilling: 6/1/2015 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683703.2
Date Finished Drilling: 6/3/2015 1:40:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS22		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-4	3.5	0.0	dry	FILL		fine to medium SAND, some medium gravel, (7.5YR 3/2) dark brown, dry, no odor, no staining.	FS22-0.0-0.5	
		0.0	dry	FILL		fine to medium SAND, trace silt, trace fine gravel, (7.5YR 2.5/3) very dark brown, dry, no odor, no staining.		
		0.0	dry	FILL		fine to medium SAND, some ash and cinders, (7.5YR 3/2) dark brown, dry, no odor, no staining.	FS22-2.0-2.5	
			wet	NR		NO RECOVERY.		
		0.0	slightly moist	FILL		fine SAND, with silt, (7.5YR 3/1) very dark gray, slightly moist, no odor, no staining.	FS22-3.0-3.5	
		0.0	moist	NR		NO RECOVERY.		
5-10	5	0.0	dry	FILL		fine silty SAND, (7.5YR 4/1) dark gray, dry, no odor, no staining.	FS22-5.0-5.5	
		0.0	dry	FILL		fine SAND, little silt, (7.5YR 3/2) dark brown, dry, no odor, no staining.	FS22-6.0-6.5	
		0.0	wet	FILL		fine SAND, (7.5YR 4/1) dark gray, wet, no odor, no staining.		
								FS22-8.0-8.5
		0.0	moist	SM		UNDno fine SAND, (5YR 4/3) reddish brown, slightly moist, no odor, no staining. Soils consistent with UNDno.		
								FS22-10.0-10.5
11-15	4.5	0.0	wet	SM		medium SAND, with medium to coarse gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS22-12.0-12.5	
								FS22-14.0-14.5
		0.0		NR		NO RECOVERY.		
16-20	4	0.0	wet	SM		medium SAND, with medium to coarse gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS22-16.0-16.5	
								FS22-18.0-18.5
		0.0		NR		NO RECOVERY.		
20-21		0.0	wet	SM		medium SAND, with medium to coarse gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FS22-20.0-20.5	

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

Comments:







Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611846.4
Date Started Drilling: 6/1/2015 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683703.2
Date Finished Drilling: 6/3/2015 1:40:00 PM	Core Size: 3 in	Boring Total Depth: 40 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS22		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
23-24	5						FS22-22.0-22.5
24-25							FS22-24.0-24.5
25-26		0.0	wet	SM		medium SAND,with medium to coarse gravel,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS22-26.0-26.5
26-27							
27-28	5						FS22-28.0-28.5
28-29							
29-30							
30-31		0.0	wet	SM		medium SAND,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS22-30.0-30.5
31-32							
32-33	5						FS22-32.0-32.5
33-34							
34-35							FS22-34.0-34.5
35-36		0.0	wet	SM		medium SAND,(5YR 4/3) reddish brown,wet,no odor,no staining. Soils consistent with UNDno.	FS22-35.0-35.5
36-37		0.0		NR		NO RECOVERY.	
37-38	0.5						
38-39							
39-40							

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

Comments:



Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611929.5
Date Started Drilling: 6/5/2015 2:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683681.7
Date Finished Drilling: 6/5/2015 3:30:00 AM	Core Size: 3 in	Boring Total Depth: 5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS24		Surface Elevation: 11.1 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	5	0.0		FILL		STONE FILL MATERIAL.	FS24-0.0-0.5
		0.0	dry	ASPHALT		ASPHALT.	
		0.0	dry	FILL		fine to medium SAND, some coal, some slag and concrete, (7.5YR 3/2) dark brown, dry, no odor, no staining.	
		0.0	dry	FILL		fine SAND, with coal and ash, (7.5YR 2.5/1) black, dry, no odor, no staining.	
		0.0	dry	FILL		fine to medium SAND, trace fine gravel, (10YR 5/4) yellowish brown, dry, no odor, no staining.	
		0.0	dry	FILL		fine SAND, with coal and ash, (7.5YR 2.5/1) black, dry, no odor, no staining.	

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

Comments:




Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611883
Date Started Drilling: 4/8/2014 10:03:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683645.9
Date Finished Drilling: 4/8/2014 10:45:00 AM	Core Size: 3 in	Boring Total Depth: 1.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI1		Surface Elevation: 3.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1.5	0.0	saturated	CONCRETE		CONCRETE	FSI1-CT
		0.0	moist	FILL		Dense GRAVEL, with sand, (7.5YR 4/1) dark gray, moist no odor no staining	FSI1-CB
							FSI1-1.0-1.5

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: No COPR/GGM identified.


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611878.2
Date Started Drilling: 6/6/2015 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683636.5
Date Finished Drilling: 4/9/2014 11:20:00 AM	Core Size: 2 in	Boring Total Depth: 2 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI1A		Surface Elevation: 3.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		CONCRETE		CONCRETE.	FSI1A-CT
		0.0		FILL		GRAVEL.	FSI1A-CB
		0.0	wet	FILL		fine to coarse SAND,with fine to medium gravel,(7.5YR 6/1) gray,wet,no odor,no staining.	FSI1A-0.8-1.3
2							

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

Comments:


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 611867.6
Date Started Drilling: 4/9/2014 1:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683645.3
Date Finished Drilling: 4/9/2014 1:10:00 PM	Core Size: 4 in	Boring Total Depth: 0.44 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI1B		Surface Elevation: 3.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.45	0.0		CONCRETE		CONCRETE	FSI1B-CT FSI1B-CB

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:	Coordinates (NJSPNAD83) x: 611876.6
Date Started Drilling: 4/9/2014 1:14:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683652.6
Date Finished Drilling: 4/9/2014 1:25:00 PM	Core Size: 4 in	Boring Total Depth: 0.4 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI1C		Surface Elevation: 3.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.4	0.0		CONCRETE		CONCRETE	FSI1C-CT FSI1C-CB

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:	Coordinates (NJSPNAD83) x: 611866.5
Date Started Drilling: 4/9/2014 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683626.3
Date Finished Drilling: 4/9/2014 9:20:00 AM	Core Size: 4 in	Boring Total Depth: 1 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI2		Surface Elevation: 3.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1	1.1		CONCRETE		CONCRETE, green water identified within boring location. Unable to continue coring due to excess concrete greater than 1.0' bgs.	FSI2-CT FSI2-CM
1							

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

Comments:


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611840.6
Date Started Drilling: 4/12/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683601.3
Date Finished Drilling: 4/12/2014 11:00:00 AM	Core Size: 3 in	Boring Total Depth: 12 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI3		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		CONCRETE		CONCRETE, no staining.		
1	4	0.0	dry to slight moist	FILL		fine to medium SAND, with ash and cinders, (10YR 4/2) dark grayish brown, non plastic, soft to loose, dry to slightly moist, no odor, no staining, little silt and fine to medium gravel.	FSI3-0.5-1.0	
2							FSI3-1.0-1.5	
3		0.0	dry to slight moist	FILL			FSI3-1.5-2.0	
4	4	0.0	dry to slight moist	FILL		medium SAND, with coal and cinders, (7.5YR 2.5/1) black, non plastic, soft to loose, moist, no odor, no staining.	FSI3-3.5-4.0	
4		0.0	moist	FILL				
5		0.0	dry to slight moist	FILL				fine to medium SAND, trace silt, some cinders, (7.5YR 4/2) brown, non plastic, soft, dry to slightly moist, no odor, no staining.
6		0.0	slightly moist	FILL				
7		0.0	moist to wet	FILL				
8		0.0	moist to wet	FILL				
8	4	0.0	moist to wet	SM		medium SAND, little silt, (5YR 5/2) reddish gray, non plastic, soft, moist to wet, no odor, no staining. Soils consistent with UNDno.	FSI3-7.5-8.0	
9		0.0	moist	SM			FSI3-8.0-8.5	
10							medium SAND, little fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, moist, no odor, no staining. Soils consistent with UNDno.	
11								
12								

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611820.8
Date Started Drilling: 4/12/2014 8:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683565.6
Date Finished Drilling: 4/12/2014 8:30:00 AM	Core Size:	Boring Total Depth: 5.5 ft
Logged By:	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI4		Surface Elevation: 11.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0		CONCRETE		CONCRETE, no staining.	
1		0.0		VOID		5.0' of void space beneath concrete floor.	
2							
3	0						
4							
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	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611814.2
Date Started Drilling: 6/13/2015 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683567.4
Date Finished Drilling: 6/13/2015 11:30:00 AM	Core Size: 2 in	Boring Total Depth: 12 ft
Logged By:	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI4A		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE, no staining.	
1	3	0.0	dry	FILL		medium SAND, some coal and ash, (7.5YR 3/2) dark brown, dry, no odor, no staining.	FSI4A-0.5-1.0
2		0.0	moist	FILL		medium SAND, (7.5YR 4/2) brown, slightly moist, no odor, no staining.	FSI4A-2.0-2.5
3				NR		NO RECOVERY.	
4	3	0.0	wet	FILL		medium SAND, (5YR 4/3) reddish brown, wet, no odor, no staining.	FSI4A-4.0-4.5
5		0.0	wet	FILL		medium SAND, (10YR 2/1) black, wet, no odor, no staining.	FSI4A-6.0-6.5
6		0.0	wet	FILL		fine SAND, little silt, trace coal fragments, and trace fine gravel, (10YR 4/2) dark grayish brown, wet, no odor, no staining.	
7				NR		NO RECOVERY.	
8	4		moist	SM		UNDno fine to medium SAND, trace silt, (10YR 5/2) grayish brown, moist, no odor, no staining. Soils consistent with UNDno.	FSI4A-8.0-8.5
9			wet	SM		UNDno medium SAND, with fine to medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno.	FSI4A-8.5-9.0
10							
11							
12							

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

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





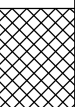
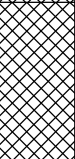


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611855.2
Date Started Drilling: 4/9/2014 9:18:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683547.7
Date Finished Drilling: 4/9/2014 11:20:00 AM	Core Size: 4 in	Boring Total Depth: 1.5 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI5		Surface Elevation: 7.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	1	1.1		CONCRETE		CONCRETE, no staining.	
1	0.5	0.0	dry	FILL		crushed CONCRETE, with medium gravel, (7.5YR 4/1) dark gray, dry, no odor, no staining.	

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

Comments:


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611855.2
Date Started Drilling: 6/8/2015 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683547.7
Date Finished Drilling: 6/9/2015 12:00:00 PM	Core Size: 2 in	Boring Total Depth: 13 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI5A		Surface Elevation: 7.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	4	0.0		CONCRETE		CONCRETE, no staining.	
2		0.0	wet	FILL		fine to medium SAND, trace silt and fine gravel, (7.5YR 3/2) dark brown, wet, no odor, no staining.	FSI5A-2.0-2.5
3		0.0		CONCRETE		crushed CONCRETE.	FSI5A-3.0-3.5
4		0.0	wet	FILL		medium SAND, with fine gravel, (7.5YR 4/2) brown, wet, no odor, no staining.	
5	5			NR		NO RECOVERY.	
6		0.0	wet	FILL		fine SAND, little fine gravel, (7.5YR 4/2) brown, wet, no odor, no staining.	FSI5A-5.0-5.5
7		0.0	wet	FILL		medium SAND, trace fine gravel, (7.5YR 4/2) brown, wet, no odor, no staining.	FSI5A-7.0-7.5
8	1.5						
9		0.0	wet	FILL		medium SAND, trace fine gravel, (7.5YR 4/2) brown, wet, no odor, no staining.	FSI5A-9.0-9.5
10			wet	SM		medium SAND, trace fine gravel, (7.5YR 4/2) brown, wet, no odor, no staining, UNDno. Soils consistent with UNDno.	
11							FSI5A-11.0-11.5
12				NR		NO RECOVERY.	
13							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611872.7
Date Started Drilling: 4/10/2014 11:35:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683609.6
Date Finished Drilling: 4/10/2014 12:20:00 PM	Core Size:	Boring Total Depth: 0 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI6		Surface Elevation: 7.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.9	0.0		CONCRETE		CONCRETE, no staining.	

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611872.7
Date Started Drilling: 6/8/2015 2:55:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683609.6
Date Finished Drilling: 6/10/2015 10:00:00 AM	Core Size: 2 in	Boring Total Depth: 10 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI6A		Surface Elevation: 7.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	2	0.0		CONCRETE		CONCRETE.	
2	3.5	0.0	wet	FILL		fine to medium SAND,(7.5YR 3/1)very dark gray,wet,no odor,no staining.	FSI6A-2.0-2.5
3		0.0	wet	FILL		fine SAND,trace silt,(10YR 5/2) grayish brown,wet,no odor,no staining.	FSI6A-4.0-4.5
4							
5				NR		NO RECOVERY.	
6	4	0.0	wet	SM		fine to medium SAND,trace fine gravel,(5YR 4/3) reddish brown,wet,no odor,no staining,UNDno.Soils consistent with UNDno.	FSI6A-6.0-6.5
7							
8							
9							FSI6A-8.0-8.5
10							

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

Comments:

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611928
Date Started Drilling: 4/11/2014 10:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683608.4
Date Finished Drilling: 4/11/2014 11:45:00 AM	Core Size: 3 in	Boring Total Depth: 12 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI7		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE, no staining.	
1	2.9	0.0	dry to slight moist	FILL		fine SAND, trace silt, little ceramics, (10YR 4/2) dark grayish brown, non plastic, soft to loose, dry to slightly moist, no odor, no staining, and brick.	FSI7-0.5-1.0
		0.0		FILL			
		0.0	dry to slight moist	FILL	fine SAND, trace silt, little brick, (10YR 3/6) dark yellowish brown, non plastic, soft, dry to slightly moist, no odor, no staining.	FSI7-2.0-2.5	
2		0.0	dry to slight moist	FILL		fine to medium SAND, some ceramics, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	
3			moist	NR		NO RECOVERY	
4		0.0	moist	FILL		fine to medium SAND, some ceramics, (7.5YR 3/3) dark brown, non plastic, soft, moist, no odor, no staining.	FSI7-4.0-4.5
5	4						
6		0.0	slightly moist	FILL		fine to medium SAND, little silt, trace ceramics, (10YR 5/2) grayish brown, non plastic, soft, slightly moist, no odor, no staining.	FSI7-6.0-6.5
7							
8	4	0.0	moist to wet	FILL		fine to medium SAND, some silt, (10YR 6/1) gray, non plastic, soft, moist to wet, no odor, no staining.	FSI7-8.0-8.5
9							
10		0.0	wet	SM		fine to medium silty SAND, (5YR 5/2) reddish gray, non plastic, soft, wet, no odor, no staining. Soils consistent with UNDno.	FSI7-10.0-10.5
11		0.0	moist	SM		fine silty SAND, (5YR 5/2) reddish gray, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDno.	FSI7-10.5-11.0
12							

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611933.1
Date Started Drilling: 4/10/2014 11:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683666.3
Date Finished Drilling: 4/11/2014 10:15:00 AM	Core Size: 3 in	Boring Total Depth: 12 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI8		Surface Elevation: 10.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		CONCRETE		CONCRETE, no staining.	
1	4	0.0	dry	FILL		crushed CONCRETE, with medium sand and gravel, (7.5YR 4/4) brown, non plastic, loose, dry, no odor, no staining.	FSI8-0.5-1.0
		0.0	dry	FILL		fine SAND, little silt, some ceramics, (5YR 4/3) reddish brown, non plastic, soft, dry, no odor, no staining.	FSI8-1.0-1.5
2		0.0	dry	FILL		fine SAND, little silt, some ceramics, (5YR 4/3) reddish brown, non plastic, soft, dry, no odor, no staining.	FSI8-1.5-2.0
		0.0	moist	FILL		fine SAND, little silt, some ceramics, (5YR 4/3) reddish brown, non plastic, soft, dry, no odor, no staining.	FSI8-2.0-2.5
3		0.0	moist	FILL		fine to medium silty SAND, with ceramics, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	FSI8-2.5-3.0
		0.0	moist	FILL		fine to medium silty SAND, with ceramics, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	FSI8-3.0-3.5
4		0.0	moist	FILL		fine to medium silty SAND, with ceramics, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	FSI8-3.5-4.0
		0.0	moist	FILL		fine to medium SAND, with ceramics, trace coal, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining.	FSI8-4.0-4.5
5	4					fine SAND, with silt, little coal, (10YR 4/2) dark grayish brown, non plastic, soft, moist, no odor, no staining, and ceramics.	
6						fine SAND, some silt, trace brick, (7.5YR 4/1) dark gray, non plastic, soft, moist, no odor, no staining, trace ceramics.	FSI8-6.0-6.5
7		0.0	moist	FILL		fine SAND, some silt, (10YR 5/2) grayish brown, non plastic, soft, moist, no odor, no staining.	
8	4	0.0	moist	FILL		fine SAND, some silt, (10YR 5/2) grayish brown, non plastic, soft, moist, no odor, no staining.	FSI8-8.0-8.5
9							
10		0.0	moist	SM		fine SAND, trace silt, (10YR 5/2) grayish brown, non plastic, soft, moist, no odor, no staining. Soils consistent with UNDno.	FSI8-10.0-10.5
11		0.0	wet	SM		medium SAND, trace fine gravel, (5YR 4/3) reddish brown, non plastic, soft to loose, wet, no odor, no staining. Soils consistent with UNDno.	FSI8-10.5-11.0
12							

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

Comments: No COPR/GGM identified.

PPG - 2012-08 RA PPG_LOGS_A_GDT - 12/15/16 23:06

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611906.7
Date Started Drilling: 4/7/2014 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683546.9
Date Finished Drilling: 4/7/2014 12:50:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FS19		Surface Elevation: 16.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-2	2.1	0.0		CONCRETE		CONCRETE	
		0.0	dry	FILL		medium to coarse SAND, little ash and fill material, (10YR 4/2) dark grayish brown, non plastic, loose, dry, no odor, no staining.	FSI9-0.4-0.9
		0.0	dry to slight moist	FILL		BRICK, no staining. fine to medium SAND, little fine gravel and fill material, (7.5YR 4/1) dark gray, non plastic, loose, dry to slightly moist, no odor, no staining.	FSI9-1.5-2.0
		0.0		NR			
5-9	4	0.0	dry	FILL		medium SAND, little ash and fine gravel, (10YR 4/1) dark gray, non plastic, loose, dry, no odor, no staining.	FSI9-5.0-5.5
		0.0	moist to wet	FILL		fine to medium SAND, trace very fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist to wet, no odor, no staining.	FSI9-7.0-7.5
				NR		NO RECOVERY	FSI9-8.0-8.5
				NR		NO RECOVERY	
10-15	4.5	0.0	moist	FILL		fine to medium SAND, little very fine gravel, (7.5YR 4/2) brown, non plastic, soft, moist, no odor, no staining.	FSI9-10.0-10.5
				NR		NO RECOVERY	FSI9-12.0-12.5
		0.0	moist	FILL		fine to medium SAND, little fine gravel, (5YR 5/4) reddish brown, non plastic, soft, moist, no odor, no staining.	FSI9-14.0-14.5
				NR		NO RECOVERY	
16-18	5	0.0	moist	FILL		fine to medium SAND, little fine gravel, (5YR 5/4) reddish brown, non plastic, soft, moist, no odor, no staining.	FSI9-16.0-16.5
		0.0	wet	SM		UNDno medium SAND, little fine gravel, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	FSI9-16.5-17.0
		0.0	wet	SM		UNDno fine SAND, trace silt, (5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soils consistent with UNDno.	

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

Comments: No COPR/GGM identified.


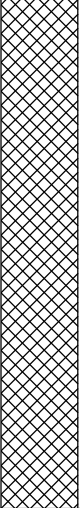
Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611918
Date Started Drilling: 6/5/2015 9:48:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683566.8
Date Finished Drilling: 6/5/2015 12:25:00 PM	Core Size: 3 in	Boring Total Depth: 20 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSI10		Surface Elevation: 20.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	3.5	0.0	dry	FILL		COAL ASH and Cinders,(7.5YR 4/1) dark gray,dry,no odor,no staining.	FSI10-0.0-0.5
		0.0	dry	FILL		fine to coarse SAND,with concrete, and coarse gravel,(7.5YR 4/1) dark gray,dry,no odor,no staining.	FSI10-1.0-1.5
				NR		NO RECOVERY.	FSI10-3.0-3.5
5-6	0.5	0.0	wet	FILL		BRICK,with medium to coarse sand,(7.5YR 4/1) dark gray,wet,no odor,no staining.	FSI10-5.0-5.5
				NR		NO RECOVERY.	
10-14	3.5	0.0	wet	FILL		BRICK,and medium to coarse sand,with fill material (5YR 4/3) reddish brown,wet,no odor,no staining.	FSI10-10.0-10.5
		0.0	wet	FILL		ASH and CINDERS,(7.5YR 2.5/1) black,wet,no odor,no staining.	FSI10-11.0-11.5
		0.0	moist	FILL		fine to medium SAND,some brick,(7.5YR 4/1) dark gray,moist,no odor,no staining.	
		0.0	moist	FILL		fine to medium SAND,trace fine gravel,(7.5YR 4/2) brown,moist,no odor,no staining.	
		0.0	moist	FILL		fine to medium SAND,trace silt,(7.5YR 2.5/2) very dark brown,moist,no odor,no staining.	FSI10-13.0-13.5
				NR		NO RECOVERY.	
15-17	5	0.0	wet	FILL		fine SAND,with silt,(7.5YR 3/2) dark brown,wet,no odor,no staining.	FSI10-15.0-15.5
18-20		0.0	wet	SM		UNDno fine SAND,with silt,(10YR 5/2) grayish brown,wet,no odor,no staining. Soils consistent with UNDno.	

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

Comments:



Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 611842.676828
Date Started Drilling: 2/10/2014 8:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683649.687149
Date Finished Drilling: 2/12/2014 2:40:00 PM	Core Size:	Boring Total Depth: 8 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSTP1		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 0.2	0.2	0.0		ASPHALT		ASPHALT	
0.2 - 7.8	7.8	0.0	dry to moist	FILL		fine to medium SAND, with fine to medium gravel and fill material, (7.5YR 3/4) dark brown, dry to moist, no odor, no staining. No visible CCPW/green staining.	
7.8 - 8							

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

Comments: No COPR/GGM identified.

Project Name: PPG Garfield Ave	Drilling Company: ENTACT	
Project Number: 60240739	Drilling Method:	Coordinates (NJSPNAD83) x: 611755.7
Date Started Drilling: 4/3/2014 10:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.2
Date Finished Drilling: 4/3/2014 3:20:00 PM	Core Size:	Boring Total Depth: 2 ft
Logged By: EW	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest Street - FSTP4		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.4	0.0		CONCRETE		CONCRETE	
1	1.6	0.0	dry	FILL		fine to medium GRAVEL, some cinders, little coal, (5YR 3/1) very dark gray, dry, no odor, no staining. No CCPW encountered.	
2		0.0	dry	FILL		fine to medium GRAVEL, some sand and fill material, (7.5YR 3/3) dark brown, dry, no odor, no staining. No CCPW encountered.	

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

Comments: No CCPW/GGM identified.



30 Knightsbridge Road, Piscataway, NJ 08854
732.564.3200 office telephone

Project Name: PPG Soil RIWP	Drilling Company: SGS	
Project Number: 6015-4801	Drilling Method: Airknife/Geoprobe	Coordinates (NJSPNAD83) x: 611849.5
Date Started Drilling: 6/3/2011	Rig Type: Airknife/Geoprobe	Coordinates (NJSPNAD83) y: 683656.2
Date Finished Drilling: 6/3/2011	Core Size: 2 in	Boring Total Depth: 20 ft
Logged By: A. Salazar, B.Daniels	Project Manager: Robert Cataldo	Depth to Water: 5 ft
Physical Location: Forrest Street, in Alley		

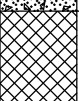
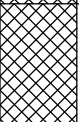












(Note bgs = below ground surface)

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample Number	
1		0	dry	2	Fill		Black Asphalt and Stone	ICO-21_ 0.5	
2		0	dry	3	Fill		Very Dark Brown (10YR 2/2) medium to fine SAND, some very fine to medium angular Gravel, trace Silt, trace coarse sub-angular Gravel, loose, no odor	ICO-21_ 2.0	
3		0	dry	3	Fill		Black (10YR 2/1) medium to coarse SAND, some fine to coarse angular Gravel, trace Silt and Fill (concrete, slag), loose. No odor.	ICO-21_ 4.0	
4		0	dry	3	Fill		Very Dark Brown (10YR 2/2) medium to coarse SAND, some angular to sub-angular Gravel, little Fill (slag, wood, glass), trace Silt, loose. No odor.	ICO-21_ 6.0	
5		0	dry	3	Fill			ICO-21_ 8.0	
6	4	0	moist	3	Fill		Very Dark Grayish Brown (10YR 3/2) medium to coarse SAND, some fine to medium angular Gravel, trace Silt, trace coarse sub-angular Gravel, loose. No odor.	ICO-21_ 10.0	
7		0	wet	10	SM-ML			Very Dark Grayish Brown (10YR 3/2) fine to medium Sandy SILT, trace Clay, trace fine angular Gravel, organics and Mica fragments, cohesive	ICO-21_ 8.0
8		0	wet	10	SM-ML			Very Dark Gray (7.5YR 3/1) SILT and fine SAND, soft. No odor.	ICO-21_ 10.0
9		0	wet	10	SM-ML			Strong Brown (7.5YR 5/6) SILT and fine SAND, little Clay, trace angular Gravel, stiff. No odor.	ICO-21_ 12.0
10	3	0	wet	10	SM-ML		No Recovery	ICO-21_ 12.0	
11		0					Reddish Brown (5YR 5/4) SILT and fine SAND, trace fine to coarse angular Gravel, very stiff. No odor.		
12		0					No Recovery		
13	3.5	0	wet	10	SM-ML		Reddish Brown (5YR 4/4) fine to medium SAND, some fine to coarse angular Gravel, little Silt, dense. No odor.	ICO-21_ 16.0	
14		0						Reddish Brown (5YR 4/3) SILT and fine SAND, little Clay, stiff. No odor.	ICO-21_ 18.0
15		0	wet	10	SM-ML			No Recovery	
16									
17									
18									
19									
20									
21							End of boring at 20 ft.		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									

Comments: No COPR/GGM identified at this location.

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Tripod	Coordinates (NJSPNAD83) x: 611953
Date Started Drilling: 2/1/2012	Rig Type:	Coordinates (NJSPNAD83) y: 683600
Date Finished Drilling: 2/3/2012	Core Size: 6 in	Boring Total Depth: 14 ft
Logged By: B. Daniels	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Forrest St		Surface Elevation: 10.2 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1			dry	CONCRETE FILL		White CONCRETE, rebar, dense. No staining. Very Dark Gray (7.5YR 3/1) FILL Material (ash, cinders, slag, brick, concrete, cobbles), some fine to coarse Sand and angular Gravel, little Silt, loose.	ICO-23-0.3
2			moist	FILL		Dark Gray (7.5YR 4/1) ASH, some fine to coarse Sand and angular Gravel, little Silt, loose.	ICO-23-2.0
3							
4			wet	FILL		Brown (7.5YR 4/2) fine to coarse SAND, some fine to medium angular Gravel and Fill (ash, cinders, slag), little Silt, loose.	ICO-23-4.0
5			wet	ML		Gray (7.5YR 5/1) SILT, soft.	
6			wet	ML		Gray (7.5YR 5/1) SILT, some Clay, soft.	ICO-23-6.0
7			moist	ML-SM		Interbedded Gray (7.5YR 5/1) SILT and Reddish Brown (5YR 4/3) fine to medium Sand, stiff.	
8			moist	NR		No Recovery.	
9			moist	MH		Weak Red (2.5YR 4/2) SILT, little Clay, stiff.	ICO-23-8.0
10			dry	GM		Reddish Brown (2.5YR 4/3) SILT and medium to coarse angular Gravel, stiff.	
11			dry	NR		No Recovery.	
12			moist to wet	SP		Reddish Brown (5YR 4/3) medium SAND, medium dense. Wet at 10.8 ft.	ICO-23-10.0
13			wet	NR		No Recovery.	
14			wet	SP		Reddish Brown (5YR 4/3) fine to medium SAND, medium dense.	ICO-23-12.0
15			wet	NR		No Recovery.	

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

Comments:









Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Geoprobe	Coordinates (NJSPNAD83) x: 611872.5
Date Started Drilling: 8/8/2011	Rig Type:	Coordinates (NJSPNAD83) y: 683509.0
Date Finished Drilling: 8/8/2011	Core Size: 12 in	Boring Total Depth: 15 ft
Logged By: B. Daniels, M. Merdinger	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location:		Surface Elevation: 13.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
			dry	CONCRETE		Concrete	
1			dry	FILL		Black (10YR 2/1) ASH and CINDERS, some fine to coarse Sand, Gravel and Slag, loose. No odor.	ICO-25-0.7
2			dry	FILL		Brown (10YR 4/3) SILT, some fine to medium Sand, little Fill (coal, brick, debris) trace fine angular Gravel, loose. No odor.	ICO-25-2.0
3							
4			moist	FILL		Yellowish Brown (10YR 5/4) SILT and very fine SAND, loose. No odor.	ICO-25-4.0
5							
6			wet	SP-SM		Reddish Brown (2.5YR 4/4) very fine SAND and SILT, little fine angular Gravel, medium dense to dense. No odor.	ICO-25-6.0
7							
8			wet	NR		No Recovery	ICO-25-8.0
9							
10			wet	SP		Reddish Brown (2.5YR 4/4) very fine SAND, little to trace Silt, dilatent, loose to medium dense. No odor.	
11							
12							
13							
14							
15							

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

Comments: No COPR/GGM identified at this location.









Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611918.1
Date Started Drilling: 9/7/2016 10:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683559.4
Date Finished Drilling: 9/8/2016 7:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 9 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 19.9 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		CONCRETE		Concrete slab, no staining		
2			dry	FILL		fine to medium SAND, some fill debris, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining.	LS-FS10AHN-1.0-1.5	
3			dry	FILL		Concrete debris, no staining	LS-FS10AHN-2.0-2.5	
4							ASH, little ash slag, trace fill debris, (2.5Y 6/2) light brownish gray, loose, dry, no odor, no staining.	LS-FS10AHN-3.0-3.5
5								LS-FS10AHN-4.0-4.5
6	3.5	0.0	moist	FILL		fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	LS-FS10AHN-5.0-5.5	
7								LS-FS10AHN-6.0-6.5
8								LS-FS10AHN-7.0-7.5
9						NR		NO RECOVERY

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611927.5
Date Started Drilling: 9/8/2016 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683546.5
Date Finished Drilling: 9/8/2016 10:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 9 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 19.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	5	0.0		CONCRETE		Concrete slab, no staining.	
2			dry	FILL		fine to medium SAND, little fill debris and fine gravel, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining. Concrete debris, no staining.	LD-FS10AHS-1.0-1.5
3			dry	FILL		fine to medium SAND, some fine to medium gravel and fill debris, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	LD-FS10AHS-2.5-3.0
4	3.5	0.0					LD-FS10AHS-3.0-3.5
5							LD-FS10AHS-4.0-4.5
6							LD-FS10AHS-5.0-5.5
7							LD-FS10AHS-6.0-6.5
8							LD-FS10AHS-7.0-7.5
9				NR		NO RECOVERY	LD-FS10AHS-8.0-8.5

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611922.1
Date Started Drilling: 9/8/2016 12:50:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683563.2
Date Finished Drilling: 9/8/2016 2:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 20.6 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
		0.0		CONCRETE		Concrete floor slab, no staining			
1	5	0.0	dry	FILL		fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	LD-FS10AVN-0.5-1.0		
2								LD-FS10AVN-2.0-2.5	
3									
4			moist	FILL		ASH, some silt, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	LD-FS10AVN-4.0-4.5		
5				FILL		Concrete debris, no staining.			
6	3.5	0.0	dry	FILL		ASH, some fill debris, (5Y 5/1) gray, medium dense, dry, no odor, no staining.	LD-FS10AVN-6.0-6.5		
7									
8									LD-FS10AVN-8.0-8.5
9				NR		NO RECOVERY			
10	3	0.0	moist	FILL		fine to medium SAND, some fill debris, little coarse gravel, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining.	LD-FS10AVN-10.0-10.5		
11									
12									LD-FS10AVN-12.0-12.5
13				NR		REFUSAL at 13.0 feet			
14									
15									

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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: 611932.7
Date Started Drilling: 9/8/2016 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683552.3
Date Finished Drilling: 9/8/2016 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 15.5
Physical Location: Actual - Forrest St Properties - RI		Surface Elevation: 20.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID				
		0.0		CONCRETE		Concrete floor slab, no staining.					
1	5	0.0	dry	FILL		fine to medium SAND, some fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	LD-FS10AVS-0.5-1.0				
2							LD-FS10AVS-2.0-2.5				
3							LD-FS10AVS-4.0-4.5				
4											
5											
6	5	0.0	dry	FILL		fine to medium SAND, little fill debris, trace cinders and silt, (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining.	LD-FS10AVS-6.0-6.5				
7							LD-FS10AVS-8.0-8.5				
8											
9											
10	5	0.0	dry	FILL		ASH, some cinders, (5Y 5/1) gray, loose, dry, no odor, no staining.	LD-FS10AVS-10.0-10.5				
11							LD-FS10AVS-12.0-12.5				
12							LD-FS10AVS-14.0-14.5				
13											
14											
15	5	0.0	dry	FILL		ASH, little cinders, (2.5Y 5/2) grayish brown, loose, dry, no odor, no staining.					
16			wet	FILL				fine silty SAND, little fill debris, (2.5Y 5/2) grayish brown, soft, wet, no odor, no staining, water at 15.5 feet.	LD-FS10AVS-16.0-16.5		
17			wet	FILL						fine silty SAND, little fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	LD-FS10AVS-16.5-17.0
18			wet	SP							
19			LD-FS10AVS-18.0-18.5								
20											
20	1	0.0				LD-FS10AVS-20.0-20.5					
21											

PPG - 2012-08 RA PPG LOGS - A.GDT - 12/7/16 23:44

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: 611782.5
Date Started Drilling: 9/14/2016 12:30:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683645.1
Date Finished Drilling: 9/14/2016 1:34:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 7
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		Concrete floor slab	
1	3.5		moist	3	FILL		ASH, some cinders, trace fill debris, (5YR 2.5/1) black, loose, moist, no odor, no staining.	NFS-PDI-AA13B-0.5-1.0
2								NFS-PDI-AA13B-2.0-2.5
3								
4				NR	NR		NO RECOVERY	
5	4	0.0	moist	3	FILL		SILT, little fill debris, trace fine sand, (5YR 2.5/1) black, dense, moist, no odor, no staining.	NFS-PDI-AA13B-4.0-4.5
6								NFS-PDI-AA13B-5.5-6.0
7				moist to wet	9	ML		SILT, trace fine sand, (5YR 4/1) dark gray, dense, moist to wet, no odor, no staining, water at 7.0 feet. Soils consistent with UNDno.
8	4	0.0	saturated	9	ML		SILT, trace fine sand, (5Y 7/1) light gray, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA13B-8.0-8.5
9								
10								NFS-PDI-AA13B-10.0-10.5
11								
12	4	0.0						NFS-PDI-AA13B-12.0-12.5
13								
14				wet	10	SP		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 5/4) reddish brown, loose, wet, no odor, no staining. Soils consistent with UNDno.
15								
16	4	0.0						NFS-PDI-AA13B-16.0-16.5
17								
18								NFS-PDI-AA13B-18.0-18.5
19								
20	1	0.0						NFS-PDI-AA13B-20.0-20.5
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/7/16 23:36

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611795.3
Date Started Drilling: 9/19/2016 11:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683668.9
Date Finished Drilling: 9/19/2016 12:20:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		1	CONCRETE		Concrete floor slab		
1	4	0.0	dry	3	FILL		fine to medium SAND, some ash, (2.5Y 5/1) gray, loose, dry, no odor, no staining.	NFS-PDI-AA14B-0.5-1.0	
2			moist	3	FILL		fine silty SAND, little fine gravel, trace ash, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	NFS-PDI-AA14B-2.5-3.0	
3									
4	4	0.0	wet	3	FILL		fine silty SAND, (7.5YR 3/3) dark brown, medium dense, wet, no odor, no staining, water at 5.0 feet.	NFS-PDI-AA14B-4.5-5.0	
5									
6									
7	4	0.0	wet	3	FILL		fine silty SAND, trace fine gravel and ash, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.	NFS-PDI-AA14B-8.5-9.0	
8									
9			wet	10	SM		fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA14B-9.0-9.5	
10									
11	4	0.0	wet	9	ML		sandy SILT, (2.5Y 5/2) grayish brown, soft, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA14B-12.5-13.0	
12									
13			wet	10	SM		fine to coarse SAND, some fine to medium gravel, little silt, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA14B-14.5-15.0	
14									
15	4	0.0							
16									
17									
18	1	0.0							
19									
20									
21									

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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. - 12/7/16 23:36

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611815.9
Date Started Drilling: 11/15/2016 12:50:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683705
Date Finished Drilling: 11/15/2016 2:10:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: Kyle Willis	Project Manager: Scott Mikaelian	Depth to Water: 3
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		Concrete floor slab	
1	3.5		moist	3	FILL		CINDERS, little ash, (5YR 2.5/1) black, loose, moist, no odor, no staining.	NFS-PDI-AA15B-0.5-1.0
2			moist to wet	3	FILL		fine to medium silty SAND, little cinders, ash, (7.5YR 4/2) brown, loose, moist to wet, no odor, no staining, water at 3.0 feet.	NFS-PDI-AA15B-2.0-2.5
3								
4					NR	NR		NO RECOVERY
5	4	0.0	wet	3	FILL		CINDERS, some ash, (5YR 2.5/1) black, loose, wet, no odor, no staining.	NFS-PDI-AA15B-4.0-4.5
6			wet	3	FILL		SILT, little fill debris, trace coal, (7.5YR 4/1) dark gray, soft, wet, no odor, no staining.	NFS-PDI-AA15B-6.0-6.5
7								
8	4	0.0	wet	3	FILL		CINDERS, some ash, little silt, (7.5YR 4/1) dark gray, medium dense, wet, no odor, no staining.	NFS-PDI-AA15B-8.0-8.5
9			wet	3	FILL		SILT, trace fill debris, (7.5YR 4/1) dark gray, firm, wet, no odor, no staining.	NFS-PDI-AA15B-10.0-10.5
10								NFS-PDI-AA15B-10.5-11.0
11			wet	14	ML		SILT, trace fine sand, (5YR 6/3) light reddish brown, firm, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA15B-11.0-11.5
12	4	0.0	wet	10	SW		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-AA15B-12.0-12.5
13								
14								NFS-PDI-AA15B-14.0-14.5
15								
16		0.0						NFS-PDI-AA15B-16.0-16.5
17	4							
18								NFS-PDI-AA15B-18.0-18.5
19								
20	1	0.0						NFS-PDI-AA15B-20.0-20.5
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/15/16 16:42

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611776.5
Date Started Drilling: 11/16/2016 11:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683608
Date Finished Drilling: 11/16/2016 1:45:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 7
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 11.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		1	CONCRETE		Concrete floor slab		
1	2.5		dry	3	FILL		fine to medium SAND, some ash, little cinders, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	NFS-PDI-BB12B-0.5-1.0	
2									NFS-PDI-BB12B-2.0-2.5
3								NO RECOVERY	
4	4	0.0	moist	3	FILL		fine to coarse SAND, some ash, trace fine gravel and brick, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	NFS-PDI-BB12B-4.0-4.5	
5			moist	3	FILL		fine to medium SAND, little ash, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining.		
6			moist to wet	3	FILL		fine to medium SAND, little silt, trace ash, (7.5YR 3/3) dark brown, medium dense, moist to wet, no odor, no staining, water at 7.0 feet.	NFS-PDI-BB12B-6.0-6.5	
7									NFS-PDI-BB12B-7.0-7.5
8	4	0.0	wet	10	SM		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB12B-7.5-8.0	
9									NFS-PDI-BB12B-8.0-8.5
10									NFS-PDI-BB12B-10.0-10.5
11	4	0.0							
12									NFS-PDI-BB12B-12.0-12.5
13	4	0.0							
14									NFS-PDI-BB12B-14.0-14.5
15									
16	4	0.0	wet	10	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB12B-16.0-16.5	
17									
18									NFS-PDI-BB12B-18.0-18.5
19	1	0.0							
20									NFS-PDI-BB12B-20.0-20.5
21									

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/15/16 16:42

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611798.8
Date Started Drilling: 9/16/2016 10:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683631.4
Date Finished Drilling: 9/16/2016 11:20:00 AM	Core Size: 2.0 in	Boring Total Depth: 12 ft
Logged By: SP	Project Manager: Scott Mikaelian	Depth to Water: 8
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		Concrete floor slab	
1	4	dry		2	ASPHALT		ASPHALT	NFS-PDI-BB13B-0.7-1.2
2			3	FILL		fine to medium SAND, some fine gravel, trace coal, ash and fill trace debris, (5YR 3/2) dark reddish brown, loose, dry, no odor, no staining.		
3								NFS-PDI-BB13B-2.7-3.2
4	4	0.0		3	FILL		SILT, trace glass and ash, (5YR 4/1) dark gray, dense, dry to wet, no odor, no staining, water at 8.0 feet.	NFS-PDI-BB13B-4.7-5.2
5								NFS-PDI-BB13B-6.7-7.2
6								
7	4	0.0					fine to medium silty SAND, (7.5R 3/2) dusky red, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB13B-8.7-9.2
8								NFS-PDI-BB13B-9.0-9.5
9								
10			wet	10	SM			NFS-PDI-BB13B-9.5-10.0
11								
12								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611822.5
Date Started Drilling: 9/16/2016 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683658.5
Date Finished Drilling: 9/16/2016 11:45:00 AM	Core Size: 2.0 in	Boring Total Depth: 12 ft
Logged By: TI	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		Concrete floor slab	
1	4		dry to moist	3	FILL		fine to medium SAND, little coarse gravel, trace fill debris, (5YR 4/3) reddish brown, medium dense, dry to moist, no odor, no staining.	NFS-PDI-BB14B-0.5-1.0
2								NFS-PDI-BB14B-2.5-3.0
3								
4	4	0.0	moist	3	FILL		fine silty SAND, trace fine gravel, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.	NFS-PDI-BB14B-4.5-5.0
5								
6								
7								
8								NFS-PDI-BB14B-8.0-8.5
9	2.5		wet	10	SM		fine SAND, trace silt, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB14B-8.5-9.0
10								
11								NO RECOVERY
12								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611836.1
Date Started Drilling: 11/15/2016 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683685.1
Date Finished Drilling: 11/15/2016 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: Kyle Willis	Project Manager: Scott Mikaelian	Depth to Water: 6
Physical Location: Actual - Forrest St Properties - Supplemental 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
		0.0		1	CONCRETE		Concrete floor slab	
1	3		moist	3	FILL		fine silty SAND, little fill debris and fine to medium gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining.	NFS-PDI-BB15B-0.5-1.0
2								NFS-PDI-BB15B-2.0-2.5
3					NR	NR	NO RECOVERY	
4	4	0.0	moist	3	FILL		fine to coarse SAND, little ash, (5YR 2.5/1) black, medium dense, moist, no odor, no staining.	NFS-PDI-BB15B-4.0-4.5
5			moist to wet	3	FILL			SILT, trace coal and fill debris, (5YR 6/1) gray, soft, moist to wet, no odor, no staining, water at 6.0 feet.
6								NFS-PDI-BB15B-7.5-8.0
7								
8	4	0.0	wet	14	ML		SILT, trace fine sand, (5YR 6/3) light reddish brown, firm, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB15B-8.0-8.5
9								
10								NFS-PDI-BB15B-10.0-10.5
11								
12	4	0.0	wet	10	SW		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-BB15B-12.0-12.5
13								
14								NFS-PDI-BB15B-14.0-14.5
15								
16	4	0.0						NFS-PDI-BB15B-16.0-16.5
17								
18								NFS-PDI-BB15B-18.0-18.5
19								
20	1	0.0						NFS-PDI-BB15B-20.0-20.5
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/15/16 16:42

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611819.3
Date Started Drilling: 9/9/2016 8:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683601
Date Finished Drilling: 9/9/2016 9:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	5	0.0	dry	3	FILL		ASPHALT MILLINGS, some fine to medium sand, (2.5Y 3/2) very dark grayish brown, loose, dry, no odor, no staining.	NFS-PDI-CC12B-0.0-0.5
			dry	3	FILL		ASH, some cinders, little fine to medium sand, (2.5Y 4/1) dark gray, loose, dry, no odor, no staining.	NFS-PDI-CC12B-2.0-2.5
			slightly moist	3	FILL	fine SAND, little silt, trace fill debris, (7.5YR 3/4) dark brown, dense, slightly moist, no odor, no staining.	NFS-PDI-CC12B-4.0-4.5	
6-10	5	0.0	wet	3	FILL		fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining, water at 5.5 feet.	NFS-PDI-CC12B-6.0-6.5
			wet	10	SP		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC12B-8.0-8.5
		0.0	wet	10	SP		fine to coarse silty SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC12B-10.0-10.5
11-15	5						NFS-PDI-CC12B-12.0-12.5	
13-15							NFS-PDI-CC12B-14.0-14.5	
16-18	5	0.0					NFS-PDI-CC12B-16.0-16.5	
18-20							NFS-PDI-CC12B-18.0-18.5	
20-21	1	0.0					NFS-PDI-CC12B-20.0-20.5	

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/7/16 23:36

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611828.8
Date Started Drilling: 11/14/2016 11:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683594.5
Date Finished Drilling: 11/14/2016 12:30:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
		0.0		1	CONCRETE		Concrete floor slab	
1	3		dry	3	FILL		fine to medium SAND, little ash, trace brick, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC12BR-0.5-1.0
2			dry	3	FILL		fine to medium SAND, trace ash, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC12BR-2.5-3.0
3				NR	NR		No Recovery	
4	4	0.0	dry	3	FILL		fine to medium SAND, trace ash, (5YR 4/3) reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC12BR-4.5-5.0
5			dry	3	FILL		fine to medium silty SAND, little ash, (7.5YR 3/2) dark brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC12BR-5.0-5.5
6			moist to wet	10	SM		fine silty SAND, (7.5YR 6/3) light brown, medium dense, moist to wet, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno.	NFS-PDI-CC12BR-6.5-7.0
7								
8	4	0.3						NFS-PDI-CC12BR-8.5-9.0
9								
10			wet	10	SM		fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC12BR-10.5-11.0
11								
12	4	1.2						NFS-PDI-CC12BR-12.5-13.0
13								
14								NFS-PDI-CC12BR-14.5-15.0
15								
16	4	0.0						NFS-PDI-CC12BR-16.5-17.0
17			wet	10	SP		fine to coarse SAND, some fine to medium gravel, trace silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC12BR-18.5-19.0
18			wet	10	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC12BR-20.0-20.5
19								
20	1	0.0						
21								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611835.6
Date Started Drilling: 9/14/2016 8:15:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683618.1
Date Finished Drilling: 9/14/2016 9:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1 2 3 4	4.5	0.0	dry	2	ASPHALT		ASPHALT	NFS-PDI-CC13B-0.1-0.6
				3	FILL		fine to medium SAND, some fine gravel, little asphalt millings, (7.5YR 4/1) dark gray, loose, dry, no odor, no staining.	
			dry	3	FILL			
							fine to medium SAND, some ash, little fill debris, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no staining.	
			dry	3	FILL	fine to medium SAND, some silt, little ash, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC13B-4.0-4.5	
5				NR	NR	NO RECOVERY		
6 7 8	5	0.0	moist	3	FILL		fine to medium SAND, some silt, trace ash, (2.5Y 4/2) dark grayish brown, medium dense, moist, no odor, no staining.	NFS-PDI-CC13B-6.0-6.5
			wet	3	FILL		fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining, water at 6.5 feet.	NFS-PDI-CC13B-7.5-8.0
			wet	10	SM		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13B-8.0-8.5
10 11 12 13 14 15	5	0.0	wet	10	SM		fine silty SAND, some fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13B-10.0-10.5
								NFS-PDI-CC13B-12.0-12.5
								NFS-PDI-CC13B-14.0-14.5
								NFS-PDI-CC13B-16.0-16.5
16 17 18	5	0.0	wet	10	SP		fine to coarse SAND, some fine to medium gravel, trace silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13B-18.0-18.5
								NFS-PDI-CC13B-20.0-20.5
20	1	0.0						
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/7/16 23:36

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611843
Date Started Drilling: 11/14/2016 9:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683613.3
Date Finished Drilling: 11/14/2016 11:00:00 AM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Forrest St Properties - Supplemental 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
		0.3		1	CONCRETE		Concrete floor slab	
1	2.5		dry	3	FILL		fine to medium SAND, trace brick, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC13BR-0.5-1.0
2								NFS-PDI-CC13BR-2.0-2.5
3					NR	NR	No Recovery	
4	4	0.0	dry	3	FILL		fine to medium SAND, trace brick, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC13BR-4.0-4.5
5			dry	3	FILL		fine SAND, little silt, trace ash, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC13BR-5.0-5.5
6			moist to wet	10	SM		fine silty SAND, (7.5YR 6/3) light brown, medium dense, moist to wet, no odor, no staining, water at 6.5 feet. Soils consistent with UNDno.	NFS-PDI-CC13BR-5.5-6.0
8			wet	10	SM		fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-6.0-6.5
9	4	0.0						NFS-PDI-CC13BR-8.0-8.5
10			wet	10	SM		fine to medium SAND, little silt, trace fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-10.0-10.5
11								
12	4	0.0		10	SM		fine to coarse silty SAND, little fine gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-12.0-12.5
13								
14								
15								
16	4	0.0	wet	10	SP		fine to coarse SAND, little silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-16.0-16.5
17			wet	10	SM		fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-18.0-18.5
18			wet	10	SP		fine to medium SAND, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC13BR-20.0-20.5
19								
20	1	0.0						
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/15/16 16:42

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611849.4
Date Started Drilling: 9/16/2016 7:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683648.2
Date Finished Drilling: 9/16/2016 8:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: TI	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.8 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	5		dry to moist	3	FILL		fine to medium SAND, little coarse gravel, (7.5YR 2.5/2) very dark brown, loose, dry to moist, no odor, no staining.	NFS-PDI-CC14B-0.5-1.0		
2									NFS-PDI-CC14B-2.5-3.0	
3			moist	3	FILL			fine silty SAND, little coarse gravel, (5Y 3/1) very dark gray, medium dense, moist, no odor, no staining.	NFS-PDI-CC14B-4.5-5.0	
4								NFS-PDI-CC14B-4.5-5.0		
5	4	0.0	moist to wet	3	FILL		SILT, some ash, (5YR 3/1) very dark gray, soft, moist to wet, no odor, no staining, water at 6.5 feet.			
6									NFS-PDI-CC14B-6.5-7.0	
7										NFS-PDI-CC14B-7.5-8.0
8			wet	10	SM			fine silty SAND, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC14B-8.0-8.5	
9				NR	NR		NO RECOVERY	NFS-PDI-CC14B-8.5-9.0		
10										
11	5	0.0	wet	10	SP		fine SAND, little coarse gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.			
12										NFS-PDI-CC14B-10.5-11.0
13										
14										
15										
16	2	0.0		NR	NR		NO RECOVERY			
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 - 12/7/16 23:36

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611863.2
Date Started Drilling: 2/14/2017 10:50:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683639.5
Date Finished Drilling: 2/14/2017 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 14 ft
Logged By: E. Acs	Project Manager: Scott Mikaelian	Depth to Water: 2.0
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 3.4 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 - 2	2	0.0		1	CONCRETE		CONCRETE, no odor, no staining.	
2 - 3	4	0.0	wet	14	ML		SILT, some fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining. water at 2.0 feet. Soils consistent with UNDno.	NFS-PDI-CC14BR-2.0-2.5
3 - 4			wet	10	SM		fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC14BR-4.0-4.5
4 - 6	4	0.0						NFS-PDI-CC14BR-6.0-6.5
6 - 8			wet	14	ML		SILT, some fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC14BR-8.0-8.5
8 - 10			wet	10	SM		fine to medium SAND, little silt, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC14BR-10.0-10.5
10 - 12	4	0.0	wet	10	SM		fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC14BR-10.0-10.5
12 - 13								NFS-PDI-CC14BR-12.0-12.5
13 - 14								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611864.4
Date Started Drilling: 9/14/2016 11:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683668.1
Date Finished Drilling: 9/14/2016 12:30:00 PM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-5	5	0.0	dry	ASPHALT FILL		ASPHALT	NFS-PDI-CC15B-0.2-0.7
			dry	FILL		fine to medium SAND, some brick, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC15B-2.0-2.5
			dry	FILL		fine to medium SAND, some ash and slag, trace fill debris, (7.5YR 2.5/2) very dark brown, medium dense, dry, no odor, no staining.	NFS-PDI-CC15B-4.0-4.5
			dry	FILL		fine SAND, little fine gravel, trace fill debris, (7.5YR 4/3) brown, medium dense, dry, slight fuel oil-like odor and staining.	NFS-PDI-CC15B-6.0-6.5
6-10	5	0.0	moist	FILL		SILT, (7.5YR 4/3) brown, soft, moist, no odor, no staining.	NFS-PDI-CC15B-8.0-8.5
			wet	FILL		fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining, water at 6.5 feet.	NFS-PDI-CC15B-8.5-9.0
			wet	SM		fine to medium silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC15B-9.0-9.5
11-20	5	0.0	wet	SM		fine SAND, some fine gravel, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC15B-10.0-10.5
							NFS-PDI-CC15B-12.0-12.5
							NFS-PDI-CC15B-14.0-14.5
							NFS-PDI-CC15B-16.0-16.5
20-21	1	0.0	wet	SP		fine to medium SAND, little fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-CC15B-18.0-18.5
21							NFS-PDI-CC15B-20.0-20.5

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/7/16 23:32

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611835.4
Date Started Drilling: 2/13/2017 9:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683547.7
Date Finished Drilling: 2/13/2017 11:15:00 AM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: E. Acs	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 7.8 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	3.5	0.0		1	CONCRETE		CONCRETE, no odor, no staining.	
			dry	3	FILL		fine to medium GRAVEL, (5YR 4/1) dark gray, dense, dry, no odor, no staining.	
				1	CONCRETE		CONCRETE, no odor, no staining.	
			moist	3	FILL		fine to medium SAND, some silt, trace fill debris, (7.5YR 3/2) dark brown, medium dense, moist, no odor, no staining.	NFS-PDI-DD11BR-2.5-3.0
4		0.0	moist	3	FILL		NO RECOVERY	
4-6	4	0.0		3	FILL		fine SAND, little silt, trace fine gravel, (5YR 5/1) gray, medium dense, moist, no odor, no staining, water at 4.0 feet.	NFS-PDI-DD11BR-4.0-4.5
			wet	10	SM		fine SAND, some silt, trace fine gravel, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-DD11BR-6.0-6.5
8-11	4	0.0						NFS-PDI-DD11BR-8.0-8.5
								NFS-PDI-DD11BR-10.0-10.5
11-12	4	0.0	dry to moist	10	SM		fine silty SAND, (7.5YR 4/2) brown, medium dense, dry to moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-DD11BR-12.0-12.5
								NFS-PDI-DD11BR-14.0-14.5
16-17	4	0.0						NFS-PDI-DD11BR-16.0-16.5
								NFS-PDI-DD11BR-18.0-18.5
20-21	1	0.0					NFS-PDI-DD11BR-20.0-20.5	

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 3/21/17 09:48

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: direct push	Coordinates (NJSPNAD83) x: 611876.3
Date Started Drilling: 2/14/2017 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683633.8
Date Finished Drilling: 2/14/2017 10:10:00 AM	Core Size: 2.0 in	Boring Total Depth: 14 ft
Logged By: E. Acs	Project Manager: Scott Mikaelian	Depth to Water: 3.0
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 3.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1	3	0.0	dry	1	CONCRETE		CONCRETE, no odor, no staining.	
				3	FILL		fine to medium GRAVEL, (5YR 4/1) dark gray, dense, dry, no odor, no staining.	
				1	CONCRETE		CONCRETE, no odor, no staining.	
3-6	4	0.0	wet	10	SM		fine silty SAND, trace fine gravel, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining, water at 3.0 feet. Soils consistent with UNDno.	NFS-PDI-DD14B-3.0-3.5
			wet	14	ML		SILT, little fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-DD14B-5.0-5.5
			wet	10	SM		fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
7-10	4	0.0						NFS-PDI-DD14B-7.0-7.5
								NFS-PDI-DD14B-9.0-9.5
11-13	3	0.0						NFS-PDI-DD14B-11.0-11.5
								NFS-PDI-DD14B-13.0-13.5
14								

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611906.4
Date Started Drilling: 9/13/2016 9:20:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683651.4
Date Finished Drilling: 9/13/2016 10:50:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 10.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 11.0 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1-5	5	0.0	dry	3	FILL		fine to medium GRAVEL, little asphalt millings and fine sand, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	NFS-PDI-EE15B-0.0-0.5	
			dry	3	FILL				
			moist	3	FILL				
			dry	3	FILL				
			moist	3	FILL				
6-8	3.5	0.0	moist	3	FILL		SILT, little fine sand, (7.5YR 4/3) brown, soft, moist, no odor, no staining.	NFS-PDI-EE15B-6.0-6.5	
			moist	3	FILL				
				NR	NR				NO RECOVERY
10-15	5	0.0	moist	3	FILL		fine silty SAND, some fine gravel, (7.5YR 4/1) dark gray, medium dense, moist, no odor, no staining.	NFS-PDI-EE15B-10.0-10.5	
			wet	3	FILL				
			wet	10	SP				fine to medium SAND, some fine gravel, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.
16-20	5	0.0	wet	10	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE15B-16.0-16.5	
20-21	1	0.0						NFS-PDI-EE15B-20.0-20.5	

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 12/7/16 23:36


Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611928.2
Date Started Drilling: 9/8/2016 8:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683673
Date Finished Drilling: 9/8/2016 8:20:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 6
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.9 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	3.5	58	dry	3	FILL		FILL STONE, loose, dry, no odor, no staining.	NFS-PDI-EE16B-0.5-1.0
			dry	1	CONCRETE		Concrete Slab	
				3	FILL		fine to medium SAND, little ash, trace fill debris, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	
			moist	3	FILL		fine to medium SAND, some cinders, (7.5YR 3/4) dark brown, medium dense, moist, moderate fuel oil-like odor, black staining.	
4-5				NR	NR		NO RECOVERY	
5-10	5	92.7	moist	3	FILL		fine to medium SAND, little cinders, trace silt, (7.5YR 4/3) brown, medium dense, moist, no odor, no staining.	
			wet	3	FILL		SILT, (5Y 5/1) gray, medium dense, wet, slight fuel oil-like odor, product staining, sheen water at 6.0 feet.	
			wet	3	FILL		fine silty SAND, little fine gravel, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining.	
10-12	5	0.0	wet	3	FILL		fine silty SAND, little fine gravel, (5YR 6/3) light reddish brown, medium dense, wet, no odor, no staining.	NFS-PDI-EE16B-11.0-11.5
			wet	10	SP		fine to coarse SAND, some fine to medium gravel, (5YR 3/3) dark reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE16B-11.5-12.0
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 UNOrg - organic undisturbed native deposits CCPW - chromate chemical production waste

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611925.1
Date Started Drilling: 9/8/2016 8:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683678.7
Date Finished Drilling: 9/8/2016 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 0.5 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 10.8 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
	0.5	0.0	dry	3	FILL		fine to medium GRAVEL, some fine to medium sand, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.	NFS-PDI-EE16B-SS-0.0-0.5

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct push	Coordinates (NJSPNAD83) x: 611939.1
Date Started Drilling: 2/10/2017 9:45:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683693.0
Date Finished Drilling: 2/10/2017	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: E. Asc	Project Manager: Scott Mikaelian	Depth to Water: 5.5
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 11.9 ft NAVD88

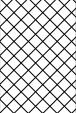

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
1	5	0.0	dry	3	FILL		fine to medium SAND, trace fine to medium gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	NFS-PDI-EE17B-0.5-1.0	
2			dry to moist	3	FILL		fine to medium SAND, little silt, trace medium gravel and fill debris, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining.	NFS-PDI-EE17B-2.0-2.5	
3									
4	5	0.0							
5			moist to wet	3	FILL		fine to medium GRAVEL, trace fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining.	NFS-PDI-EE17B-4.0-4.5	
6			moist to wet	3	FILL		fine SAND, some silt, trace fine gravel, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, no staining, water at 5.5 feet.	NFS-PDI-EE17B-6.0-6.5	
7			moist	14	ML		SILT, trace fine sand, (7.5YR 6/1) gray, soft, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE17B-6.5-7.0	
8									
9	5	0.0	moist	14	ML		SILT, trace fine sand, (5YR 7/1) light gray, soft, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE17B-8.0-8.5	
10									
11			moist	10	SM		fine silty SAND, (5YR 5/4) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE17B-10.0-10.5	
12	5	0.0	moist	10	SM		fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE17B-12.0-12.5	
13									
14									
15	5	0.0	moist	10	SP		fine to medium SAND, trace fine to medium gravel, (7.5YR 4/2) brown, dense, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-EE17B-14.0-14.5	
16									
17									
18	1	0.0							
19									
20									
21								NFS-PDI-EE17B-20.0-20.5	

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 3/21/17 09:48

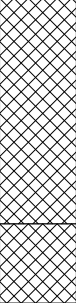

Project Name: PPG Garfield Ave	Drilling Company: AECOM	
Project Number: 60240739	Drilling Method: HAND AUGER	Coordinates (NJSPNAD83) x: 611974.9
Date Started Drilling: 8/30/2017 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683620.5
Date Finished Drilling: 8/30/2017 10:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 4.2 ft
Logged By: Ron Kantor	Project Manager:	Depth to Water:
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 12.1 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 - 1	1	0.0	dry	3	FILL		ASH, trace coal, concrete and fill debris, (5YR 2.5/1) black, medium dense, dry, no odor, no staining.	
1 - 2	1	0.0				NFS-PDI-GG15B-1.7-2.2		
2 - 3	1	0.0				NFS-PDI-GG15B-2.2-2.7		
3 - 4	1.2	0.0	moist	3	FILL		SILT, little fine to medium sand, (7.5YR 4/3) brown, firm, moist, no odor, no staining.	NFS-PDI-GG15B-2.7-3.2
4 - 4.2								NFS-PDI-GG15B-3.2-3.7

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

Project Name: PPG Garfield Ave	Drilling Company: AECOM	
Project Number: 60240739	Drilling Method: HAND AUGER	Coordinates (NJSPNAD83) x: 611981.3
Date Started Drilling: 8/30/2017 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683627
Date Finished Drilling: 8/30/2017 11:10:00 AM	Core Size: 3.0 in	Boring Total Depth: 4.6 ft
Logged By: Ron Kantor	Project Manager:	Depth to Water:
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 12.4 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1	1	0.0	dry	3	FILL		ASH, trace coal and fill debris, (5YR 2.5/1) black, medium dense, dry, no odor, no staining.	
1 - 2	1	0.0				NFS-PDI-GG16B-2.1-2.6		
2 - 3	1	0.0				NFS-PDI-GG16B-2.6-3.1		
3 - 4	1.6	0.0	moist	3	FILL			NFS-PDI-GG16B-3.1-3.6
							SILT, little fine to medium sand, (7.5YR 4/3) brown, firm, moist, no odor, no staining.	NFS-PDI-GG16B-3.6-4.1

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611688.4
Date Started Drilling: 8/25/2016 10:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683658.6
Date Finished Drilling: 8/25/2016 11:40:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: Eric Stone	Project Manager: Scott Mikaelian	Depth to Water: 5
Physical Location: Actual - Forrest St Properties - 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	4	0.0	dry	3	FILL		fine to medium SAND, some fine gravel, little ash, (7.5YR 4/3) brown, medium dense, dry, no odor, no staining.		
2			dry to moist	3	FILL		CINDERS, some ash, (5Y 3/1) very dark gray, loose, dry to moist, no odor, no staining.		
3				NR	NR		NO RECOVERY		
4	5	0.0							
5			wet	3	FILL		CINDERS, (5Y 2.5/1) black, loose, wet, MGP-like odor, no staining, water at 5.0 feet.		
6									
7			wet	3	FILL		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	NFS-PDI-X12B-8.0-8.5	
8			wet	3	FILL		SILT, trace fine sand, (5YR 4/3) reddish brown, soft, wet, no odor, no staining.	NFS-PDI-X12B-8.5-9.0	
9	4.5	0.0	slightly moist	7	PT		PEAT (degraded vegetated material), 75% organic fibers, 25% organic silt, (5YR 3/3) dark reddish brown, medium stiff, slightly moist, no odor, no staining. Soils consistent with MM.	NFS-PDI-X12B-9.0-9.5	
10			moist	9	OL		Organic SILT, 90% organic silt, 10% organic fibers, (7.5YR 6/4) light brown, soft, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-X12B-9.5-10.0	
11									
12									
13			dry	10	SP		fine to medium SAND, little fine gravel, (5YR 4/4) reddish brown, dense, dry, no odor, no staining. Soils consistent with UNDno.		
14									
15				NR	NR		NO RECOVERY		

Notes:

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611705.2
Date Started Drilling: 8/29/2016 7:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683682.7
Date Finished Drilling: 8/29/2016 9:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 20 ft
Logged By: Eric Stone	Project Manager: Scott Mikaelian	Depth to Water: 5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 7.4 ft NAVD88

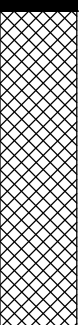
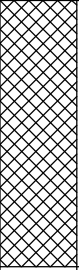
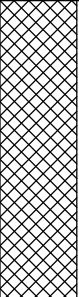


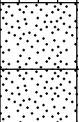
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
0 - 1		0		1	CONCRETE		Concrete and gravel sub-base, no odor, no staining.	
1 - 2	5		moist	3	FILL		fine to medium silty SAND, little cinders, trace wood, (7.5YR 2.5/2) very dark brown, medium dense, moist, no odor, no staining.	
2 - 3			wet	3	FILL		fine silty SAND, little fine gravel, (5YR 6/3) light reddish brown, medium dense, wet, no odor, slight black staining at 4.8 feet.	
3 - 5								
5 - 6	5	0	wet	8	SM		fine silty SAND, trace organics, (7.5YR 6/4) light brown, medium dense, wet, no odor, no staining, water at 5.0 feet. Soils consistent with UNDno.	NFS-PDI-X13B-5.0-5.5
6 - 7								
7 - 8								
8 - 9								
9 - 10								
10 - 11	5	0	wet	10	SP		fine to coarse SAND, some medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
11 - 12								
12 - 13								
13 - 14								
14 - 15								NFS-PDI-X13B-14.5-15.0
15 - 16	5	0	wet	10	SP		fine to coarse SAND, some medium gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-X13B-15.0-15.5
16 - 17								
17 - 18								
18 - 19								
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 - 2012-08 RA PPG LOGS - A.GDT - 12/7/16 23:37

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611716.2
Date Started Drilling: 8/29/2016 9:10:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683712.2
Date Finished Drilling: 8/29/2016 11:00:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 12
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 17.47 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	dry	ASPHALT FILL		Asphalt and gravel sub-base fine to medium silty SAND, little fill debris, (5YR 3/3) dark reddish brown, medium dense, dry to moist no odor no staining	NFS-PDI-X14B-0.2-0.7	
							NFS-PDI-X14B-2.0-2.5	
							NFS-PDI-X14B-4.0-4.5	
6-10	4	0.0	moist	FILL		fine to medium silty SAND, some fine to coarse gravel, little fill debris, (5YR 3/3) dark reddish brown, medium dense, moist no odor no staining	NFS-PDI-X14B-6.0-6.5	
							NFS-PDI-X14B-8.0-8.5	
				NR			No Recovery	
11-15	4.5	0.0	moist	FILL		fine to medium silty SAND, some medium to coarse gravel, little fill debris, (7.5YR 3/3) dark brown, medium dense, moist to wet no odor no staining, water at 12.0 feet	NFS-PDI-X14B-10.0-10.5	
							NFS-PDI-X14B-12.0-12.5	
				NR			No Recovery	
16-19	5	0.0	moist	FILL		fine to medium silty SAND, some fine to coarse gravel, (5YR 4/4) reddish brown, dense, moist no odor no staining	NFS-PDI-X14B-15.0-15.5	
			moist	ML			SILT, little fine sand, trace organics, (5YR 5/1) gray, stiff, moist no odor no staining. Soils consistent with UNDno.	NFS-PDI-X14B-15.5-16.0
							NFS-PDI-X14B-16.0-16.5	
							NFS-PDI-X14B-18.0-18.5	
20-21	1	0.0	moist	SP		fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) reddish brown, loose, moist no odor no staining. Soils consistent with UNDno.	NFS-PDI-X14B-20.0-20.5	
21						fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) reddish brown, loose, moist no odor no staining. Soils consistent with UNDno.		

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

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

PPG - 2012-08 RA PPG LOGS - A.GDT. - 12/7/16 23:33

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611722.5
Date Started Drilling: 2/12/2017 12:00:00 PM	Rig Type:	Coordinates (NJSPNAD83) y: 683703.9
Date Finished Drilling: 2/12/2017 1:10:00 PM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: 4.0
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 10.3 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
		0.0		1	CONCRETE		CONCRETE, no odor, no staining.			
1	5			3	FILL		fine silty SAND, some ash, little concrete, (7.5YR 3/2) dark brown, medium dense, no odor, no staining, water at 4.0 feet.	NFS-PDI-X14BR-0.5-1.0		
2								NFS-PDI-X14BR-2.0-2.5		
3										
4										
5		3.2								
6	5		wet	3	FILL		fine SAND, some fine to coarse gravel, trace silt, (5YR 6/3) light reddish brown, medium dense, wet, slight fuel oil-like odor, no staining.	NFS-PDI-X14BR-6.0-6.5		
7										
8									NFS-PDI-X14BR-8.0-8.5	
9										
10	5	0.0	wet	3	FILL		SILT, trace fine sand, (5YR 3/1) very dark gray, soft, wet, no odor, no staining.	NFS-PDI-X14BR-10.0-10.5		
11									NFS-PDI-X14BR-11.5-12.0	
12									NFS-PDI-X14BR-12.0-12.5	
13										
14	5			9	ML		SILT, trace fine sand and clay, (5YR 7/1) light gray, stiff, moist, no odor, no staining. Soils consistent with UNDno.			
15									NFS-PDI-X14BR-14.0-14.5	
16										NFS-PDI-X14BR-16.0-16.5
17										NFS-PDI-X14BR-18.0-18.5
18	5	0.0		10	SP		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.			
19										
20										NFS-PDI-X14BR-20.0-20.5
21	1	0.0								

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

Comments: 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 - 3/21/17 09:48

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611729.2
Date Started Drilling: 8/31/2016 11:40:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683739
Date Finished Drilling: 9/8/2016 7:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 7.5
Physical Location: Actual - Forrest St Properties - PDI		Surface Elevation: 19.85 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID
1-4	4.5	0.0	dry	ASPHALT FILL		ASPHALT fine to coarse SAND, little fine gravel, trace fill debris, (7.5YR 3/3) dark brown, loose, dry, no odor, no staining. fine to medium silty SAND, some medium to coarse gravel with rock fragments, trace fill debris, (5YR 4/4) reddish brown, medium dense, dry to moist, no odor, no staining.	NFS-PDI-X15B-0.2-0.7
			dry to moist	FILL			NFS-PDI-X15B-2.0-2.5
							NFS-PDI-X15B-4.0-4.5
				NR			No Recovery
6-9	4	0.0	moist to wet	FILL		fine to coarse SAND, little fine to coarse gravel, trace silt and fill debris, (5YR 4/4) reddish brown, medium dense, moist to wet, no odor, no staining, water at 7.5 feet.	NFS-PDI-X15B-6.0-6.5
							NFS-PDI-X15B-8.0-8.5
				NR			No Recovery
10-14	4.5	0.0	wet	FILL		fine to coarse SAND, some rock fragments, trace fill debris, (7.5YR 3/3) dark brown, loose, wet, no odor, no staining. fine to medium silty SAND, little rock fragments trace fill debris, (5YR 4/4) reddish brown, dense, wet, no odor, no staining.	NFS-PDI-X15B-10.0-10.5
				FILL			NFS-PDI-X15B-12.0-12.5
							NFS-PDI-X15B-14.0-14.5
				NR			No Recovery
16-18	5	0.0	wet	FILL		fine to coarse silty SAND, little rock fragments, trace fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining.	NFS-PDI-X15B-16.0-16.5
							NFS-PDI-X15B-17.5-18.0
			moist	ML			
20	1	0.0					NFS-PDI-X15B-20.0-20.5

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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. - 12/7/16 23:33

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611734.5
Date Started Drilling: 8/26/2016 7:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683669.9
Date Finished Drilling: 8/26/2016 8:30:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: Eric Stone	Project Manager: Scott Mikaelian	Depth to Water: 6.5
Physical Location: Actual - Forrest St Properties - 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
1	5	0.0		1	CONCRETE		CONCRETE	
2			moist	3	FILL		fine to medium silty SAND, some fine gravel, little fill debris, (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining.	NFS-PDI-Y13B-1.0-1.5
3				1	FILL		Concrete debris, no odor, no staining.	NFS-PDI-Y13B-2.0-2.5
4			moist	3	FILL		fine to medium SAND, some wood, little medium gravel, (5YR 2.5/1) black, medium dense, moist, no odor, no staining.	NFS-PDI-Y13B-4.0-4.5
5	5	0.0	moist	3	FILL		fine SAND, some silt, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining.	NFS-PDI-Y13B-6.0-6.5
6								
7			wet	3	FILL		fine silty SAND, little fine gravel, trace wood (5YR 4/4) reddish brown, loose, wet, no odor, no staining, water at 6.5 feet.	NFS-PDI-Y13B-8.0-8.5
8			wet	9	ML		SILT, (7.5YR 6/4) light brown, soft, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Y13B-8.5-9.0
9	4.5	0.0	moist	9	ML		SILT, some fine sand, (7.5YR 6/3) light brown, dense, moist, no odor, iron staining. Soils consistent with UNDno.	NFS-PDI-Y13B-10.0-10.5
10								
11			wet	10	SM		fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Y13B-12.0-12.5
12			wet	10	SP		fine to coarse SAND, some medium to coarse gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Y13B-14.0-14.5
13				NR	NR		NO RECOVERY	
14	5	0.0	wet	10	SP		fine to coarse SAND, some medium to coarse gravel, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Y13B-16.0-16.5
15								
16								
17								
18								
19								
20	1	0.0	wet	10	SP		fine to coarse SAND, some medium to coarse gravel, (5YR 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Y13B-20.0-20.5
21								

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

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

PPG - 2012-08 RA PPG LOGS - A.GDT. - 12/7/16 23:37

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611741.7
Date Started Drilling: 2/10/2017 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683643.3
Date Finished Drilling: 2/10/2017 12:00:00 PM	Core Size: 2.0 in	Boring Total Depth: 21 ft
Logged By: E. Asc	Project Manager: Scott Mikaelian	Depth to Water: 8.0
Physical Location: Actual - Forrest St Properties - Supplemental PDI		Surface Elevation: 13.6 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	3	0.0		1	CONCRETE		CONCRETE, no odor no staining	
2			dry	3	FILL		coarse GRAVEL, (5YR 4/1) dark gray, medium dense, dry, no odor, no staining.	NFS-PDI-Z12B-2.0-2.5
3			dry	3	FILL		CINDERS, little fine sand, trace ash, (5Y 5/1) gray, loose, dry, no odor, no staining.	
4	2.5	0.0		NR	NR		NO RECOVERY	
5			dry	3	FILL		CINDERS, trace fine sand, ash and fill debris, (7.5YR 6/1) gray, loose, dry, no odor, no staining.	NFS-PDI-Z12B-4.0-4.5
6			dry	3	FILL		fine SAND, little silt, trace fine to medium gravel, (7.5YR 4/2) brown, medium dense, dry, no odor, no staining.	NFS-PDI-Z12B-6.0-6.5
7	3.5	0.0		NR	NR		NO RECOVERY	
8			wet	3	FILL		fine to medium SAND, little fine to medium gravel, trace cinders, (5YR 4/1) dark gray, loose, wet, no odor, no staining, water at 8.0 feet.	NFS-PDI-Z12B-8.0-8.5
9			moist	14	ML		SILT, trace fine sand, (5YR 6/1) gray, soft, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z12B-8.5-9.0
10								NFS-PDI-Z12B-9.0-9.5
11	4	0.0		NR	NR		NO RECOVERY	
12			moist	10	SP		fine SAND, trace silt, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z12B-10.0-12.5
13			moist	10	SM		fine silty SAND, (7.5YR 6/3) light brown, medium dense, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z12B-14.0-14.5
14	4	0.0						NFS-PDI-Z12B-16.0-16.5
15								
16	4	0.0						NFS-PDI-Z12B-18.0-18.5
17			wet	10	SP		fine to medium SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z12B-20.0-20.5
18	1	0.0						
19								
20								
21								

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 3/21/17 09:48

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611757.5
Date Started Drilling: 9/13/2016 11:30:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683657.9
Date Finished Drilling: 9/13/2016 1:45:00 PM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: ES	Project Manager: Scott Mikaelian	Depth to Water: 4
Physical Location: Actual - Forrest St Properties - 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
1-5	5	0.0		1	CONCRETE		Concrete slab, no staining	
			dry	3	FILL		fine to medium SAND, little ash, trace fill debris, (7.5YR 3/4) dark brown, medium dense, dry, no odor, no staining.	
			moist to wet	3	FILL			fine silty SAND, trace fine gravel, (7.5YR 4/3) brown, medium dense, moist to wet, no odor, no staining.
			wet	3	FILL		fine to medium SAND, little ash, (5YR 2.5/1) black, medium dense, wet, no odor, no staining, water at 4.0 feet.	NFS-PDI-Z13B-4.0-4.5
6-10	5	0.0	wet	3	FILL		SILT, trace ash, (2.5Y 4/2) dark grayish brown, soft, wet, no odor, no staining.	NFS-PDI-Z13B-6.0-6.5
			wet	3	FILL		SILT, little fine sand, (7.5YR 3/4) dark brown, soft, wet, no odor, no staining.	NFS-PDI-Z13B-8.0-8.5
			wet	3	FILL		fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining.	NFS-PDI-Z13B-10.0-10.5
								NFS-PDI-Z13B-10.5-11.0
11-15	5	0.0	wet	10	SM		fine to medium silty SAND, trace fine gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z13B-11.0-11.5
			wet	8	SM		fine silty SAND, some fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z13B-12.0-12.5
			wet	10	SP		fine to coarse SAND, little fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z13B-14.0-14.5
								NFS-PDI-Z13B-16.0-16.5
16-20	5	0.0	wet	10	SP		fine to coarse SAND, some fine to medium gravel, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z13B-16.0-16.5
								NFS-PDI-Z13B-18.0-18.5
								NFS-PDI-Z13B-20.0-20.5
21	1	0.0						

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

Comments: 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 - 12/7/16 23:37

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611769
Date Started Drilling: 2/12/2017 10:00:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683685.1
Date Finished Drilling: 2/12/2017 11:15:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: 5.0
Physical Location: Actual - Forrest St Properties - Supplemental 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 - 1		234		1	CONCRETE		CONCRETE, no odor, no staining.	
1 - 2	5		dry	3	FILL		fine SAND, little ash, (7.5YR 6/3) light brown, medium dense, dry, no odor, no staining.	NFS-PDI-Z14B-1.0-1.5
2 - 3			moist	3	FILL		ASH, some cinders, trace medium to coarse gravel and wood, (7.5YR 2.5/2) very dark brown, dense, moist, strong fuel oil-like odor, no staining.	NFS-PDI-Z14B-3.0-3.5
3 - 5			moist	3	FILL		SILT, trace fine sand, (10YR 5/2) grayish brown, firm, moist no odor no staining, water at 5.0 feet	NFS-PDI-Z14B-5.0-5.5
5 - 6	5	0.0						NFS-PDI-Z14B-6.5-7.0
6 - 7			moist	9	ML		SILT, trace clay, (7.5YR 3/2) dark brown, firm, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z14B-7.0-7.5
7 - 9			moist	14	ML		SILT, trace fine sand, (7.5YR 4/2) brown, firm, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z14B-8.0-8.5
9 - 10	5	0.0						NFS-PDI-Z14B-10.0-10.5
10 - 12			moist	9	ML		SILT, trace clay, (5YR 5/1) gray, stiff, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z14B-12.0-12.5
12 - 13			wet	10	SP		fine to coarse SAND, little fine to coarse gravel, trace silt, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z14B-14.0-14.5
13 - 15	5	0.0						NFS-PDI-Z14B-16.0-16.5
15 - 17								NFS-PDI-Z14B-18.0-18.5
17 - 20								NFS-PDI-Z14B-20.0-20.5
20 - 21	1	0.0						

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

Comments: 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 - 3/21/17 09:48

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611782.2
Date Started Drilling: 2/12/2017 8:55:00 AM	Rig Type:	Coordinates (NJSPNAD83) y: 683710.2
Date Finished Drilling: 2/12/2017 9:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 21 ft
Logged By: R. Kantor	Project Manager: Scott Mikaelian	Depth to Water: 6.0
Physical Location: Actual - Forrest St Properties - Supplemental 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	
1	5	3.5		1	CONCRETE		CONCRETE, no odor, no staining.		
2			moist	3	FILL		ASH, little fine to medium sand, (7.5YR 3/4) dark brown, dense, moist, no odor, no staining.		
3			moist	3	FILL		ASH, some fine to medium sand, trace silt, (7.5YR 3/2) dark brown, medium dense, moist, moderate fuel oil-like odor, product staining.		
4			moist	3	FILL		SILT, trace fine sand and wood, (7.5YR 4/2) brown, firm, moist, no odor, no staining.		
5	5	0.0	moist	3	FILL		SILT, trace fine sand, (7.5YR 4/2) brown, firm, moist, no odor, no staining.	NFS-PDI-Z15B-5.5-6.0	
6			moist	14	OL		organic SILT, trace fine sand, (10YR 3/1) very dark gray, soft, moist, no odor, no staining, water at 6.0 feet. Soils consistent with UNDorg.	NFS-PDI-Z15B-6.0-6.5	
7			moist	14	ML		SILT, trace organics, (7.5YR 6/3) light brown, firm, moist, no odor, no staining. Soils consistent with UNDno.		
8	5	0.0							
9			moist	9	ML		SILT, trace fine sand and clay, (7.5YR 6/1) gray, stiff, moist, no odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z15B-12.0-12.5	
10			wet	10	SP		fine to coarse SAND, little medium to coarse gravel, (2.5YR 3/3) dark reddish brown, medium dense, wet, slight fuel oil-like odor, no staining. Soils consistent with UNDno.	NFS-PDI-Z15B-14.0-14.5	
11	5	3.7							
12									NFS-PDI-Z15B-16.0-16.5
13									NFS-PDI-Z15B-18.0-18.5
14	1	0.0							
15									NFS-PDI-Z15B-20.0-20.5
16									
17									
18									
19									
20									
21									

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

Comments: 1) 3 attempts were made to obtain best recovery 2) 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 - 3/21/17 09:48

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611855.4
Date Started Drilling: 6/24/2016 9:08:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683508.63
Date Finished Drilling: 6/24/2016 10:05:00 AM	Core Size: 3.0 in	Boring Total Depth: 10 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: NA
Physical Location: Actual - Forrest PDI		Surface Elevation: 11.98 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		CONCRETE		CONCRETE		
1	4.5			FILL		ASH, trace fine to medium gravel, (7.5YR 4/1) dark gray, loose, moist, no odor, no staining.	P4-FOR-EE10B-0.6-1.1	
2			moist to wet	FILL		SILT, trace fine gravel and ash, (2.5Y 5/2) grayish brown, medium dense, moist to wet, no odor, no staining.	P4-FOR-EE10B-2.0-2.5	
3								
4								
5				NR		NO RECOVERY		
6	4	0.0	wet to saturated	FILL		SILT, trace fine gravel, (2.5Y 5/2) grayish brown, medium dense, wet to saturated, no odor, no staining, water at 6.0 feet.	P4-FOR-EE10B-6.0-6.5	
7			saturated	SM		fine SAND, some silt, (5YR 4/3) reddish brown, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-EE10B-6.5-7.0	
8								
9			saturated	SW		medium to coarse SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, saturated, no odor, no staining. Soils consistent with UNDno.		
10				NR		NO RECOVERY		

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

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

Project Name: PPG Garfield Ave	Drilling Company: SGS North America	
Project Number: 60240739	Drilling Method: Direct Push	Coordinates (NJSPNAD83) x: 611711.7
Date Started Drilling: 6/23/2016 10:50:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683638.1
Date Finished Drilling: 6/23/2016 11:55:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: HBB	Project Manager: Scott Mikaelian	Depth to Water: 4.5
Physical Location: Actual - Forrest PDI		Surface Elevation: 10.5 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID		
		0.0		ASPHALT		Asphalt and gravel sub-base.			
1	4.5		moist to saturated	FILL		ASH, trace sand and coal, (7.5YR 3/3) dark brown, loose, moist to saturated, no odor, no staining, water at 4.5 feet.	P4-FOR-Y12B-0.5-1.0 & P4-FOR-Y12BR-0.5-1.0		
2									
3									
4									
5				NR		NO RECOVERY			
6	4	0.0	saturated	FILL		ASH, trace fine sand and coal, (5Y 3/1) very dark gray, loose, saturated, no odor, no staining.	P4-FOR-Y12B-6.0-6.5		
7								P4-FOR-Y12B-6.5-7.0	
8				wet	ML			SILT, (7.5YR 4/3) brown, medium stiff, wet, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Y12B-7.0-7.5
9									
10				NR		NO RECOVERY			
11	3.5	0.0	wet	ML		SILT, (7.5YR 4/3) brown, stiff, wet, no odor, no staining. Soils consistent with UNDno.			
12									
13									
14								NR	
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: 611736.3
Date Started Drilling: 6/20/2016 9:44:00 AM	Rig Type: Geoprobe	Coordinates (NJSPNAD83) y: 683629.0
Date Finished Drilling: 6/20/2016 10:45:00 AM	Core Size: 3.0 in	Boring Total Depth: 15 ft
Logged By: KW	Project Manager: Scott Mikaelian	Depth to Water: 5.0
Physical Location: Actual - Forrest PDI		Surface Elevation: 9.7 ft NAVD88

Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	Sample ID	
		0.0		ASPHALT		Asphalt and gravel sub-base.		
1	4		moist	FILL		fine to medium SAND, some ash, trace cinders and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining.	P4-FOR-Z12B-1.0-1.5	
2								
3								
4			moist	FILL			CINDERS, (2.5Y 2.5/1) black, loose, moist, no odor, no staining.	P4-FOR-Z12B-3.0-3.5
5				NR		NO RECOVERY		
6	4.5	0.0	wet	FILL		CINDERS, (2.5Y 2.5/1) black, loose, wet, no odor, no staining, water at 5.0 feet.	P4-FOR-Z12B-6.0-6.5	
7			saturated	FILL				
8			saturated	ML			SILT, (5Y 5/1) gray, medium dense, saturated, no odor, no staining. Soils consistent with UNDno.	P4-FOR-Z12B-6.5-7.0
9			wet	ML			SILT, trace fine sand, (7.5YR 4/2) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.	
10				NR		NO RECOVERY		
11	4	0.0	wet	ML		SILT, trace fine sand, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.		
12			wet	SM		fine to medium silty SAND, trace fine to medium gravel, (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno.		
13								
14				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.

LOG OF SOIL BORING SB-62/62C

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 9.99	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Aubrey Vierheilig	DATE STARTED 08/17/07	DATE COMPLETED 08/17/07	
DRILLING EQUIPMENT GEFCO SS 15 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 31	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 13	DIST. 13	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 5	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: North shoulder of Forrest Street, near western end of Forrest Street, Jersey City, NJ		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval	Depth (ft bgs)	Samples				PID READINGS (PPM)					REMARKS	
			Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date		
0.0-0.3' Asphalt road surface		0											
0.3-0.4' FILL: rusty brown sand, with visible chromate ore processing residue (COPR) pellets.													
0.4-5.0' FILL: Black fine to medium sand, gravel, dry, medium dense; reddish brown (COPR) pellets.													
5.0-5.5' Dusky red (2.5YR 3/2) silty CLAY, little (10%) gravel (CL), wet, medium stiff.		5	1	1.5	3	1008	0.0	0.0	1008	N/A	N/A		Sample SB-62 (1.5-2.0) collected at 0824 for TCL VOC, TCL SVOC
5.5-8.0' Dark reddish gray (2.5YR 3/1) organic clay / silt (OH) with trace visible peat fragments, moist, very soft.		6			2		0.0	0.0					No sheen, no odor; no observable evidence of MGP contamination
8.0-9.6' Dark red (2.5YR 3/6) organic SILTY CLAY (OH), moist, trace fine sand.		8			4		0.0	0.0					Sample SB-62C (7.0-7.5) collected at 1022 for TCL VOC, TCL SVOC
9.6-11.8' Dark red (2.5YR 3/6) fine sandy SILT (SM), some rusty brown colored mottling, moist, medium dense.		9	3	1.2	3	1017	0.0	0.0	1017	N/A	N/A		No sheen, no odor; no observable evidence of MGP contamination
11.8-12.2' Reddish brown (5YR 4/4) fine sandy SILT (SM), moist, medium dense.		11			4								
12.2-15.0' Yellowish red (5YR 5/6) fine to medium SAND (SW), trace silt, little fine gravel, moist.		12	4	1.5	3	1019	0.0	0.0	1019	N/A	N/A		No sheen, no odor; no observable evidence of MGP contamination
		13			5		0.0	0.0					
					8		0.0	0.0					
					10								

LOG OF SOIL BORING SB-62/62C

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT. NAVD88) 9.99	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Aubrey Vierheilig	DATE STARTED 08/17/07	DATE COMPLETED 08/17/07	
DRILLING EQUIPMENT GEFCO SS 15 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 31	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 13	DIST. 13	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 5	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: North shoulder of Forrest Street, near western end of Forrest Street, Jersey City, NJ		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov (ft)	Penetr. Resist. BL.6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
12.2-15' Yellowish red (5YR 5/6) fine to medium sand (SW), trace silt, little fine gravel, moist	- 13		5	1.0	5		0.0	0.0	0	N/A	N/A	No sheen, no odor; no observable evidence of MGP contamination
	- 14				12		0.0	0.0				
					13							
					11							
15.0-15.3' Medium GRAVEL and SAND (GP), moist, rounded gravel up to 1/2". Poorly graded.	- 15		6	1.8	7	1036	0.0	0.0	1036	N/A	N/A	No sheen, no odor; no observable evidence of MGP contamination
15.3-15.7' Light olive brown (2.5Y 5/3) SANDY CLAY (CL), wet	- 16				18		0.0	0.0				
15.7-16.4' Light olive brown (2.5Y 5/3) coarse to fine SAND (SW), little (10%) gravel, loose, moist	- 17				15		0.0	0.0				
16.4-17.0' Reddish brown (2.5YR 4/4) fine SAND (SP), trace silt, moist	- 18				17		0.0	0.0				
17.0-19.0' Reddish brown (2.5YR 5/3) GRAVEL (GW) and fine to coarse sand, trace silt, trace silty clay, wet; gravel is subrounded to rounded, up to 1" diameter	- 19		7	1.0	1	1044	0.0	0.0	1044	N/A	N/A	No sheen, no odor; no observable evidence of MGP contamination
	- 20				6		0.0	0.0				
					13							
					18							
19.0-25.0' Reddish brown (2.5YR 4/4) fine to medium SAND (SW), little coarse sand, trace (<5%) silt, trace (<5%) fine gravel, wet, medium dense	- 21		8	1.8	5	1050	0.0	0.0	1050	N/A	N/A	No sheen, no odor; no observable evidence of MGP contamination
	- 22				7		0.0	0.0				
					8		0.0	0.0				
					13		0.0	0.0				1055 Sample SB-62C(19.0-19.5), and SB-62C(19.0-19.5)DUP, collected for TCL VOC, TCL SVOC
	- 23		9	1.5	14	1113	0.0	0.0	1113	N/A	N/A	No staining; no observable evidence of MGP contamination
					10		0.0	0.0				
					8							Green water observed in this spoon
					11							

LOG OF SOIL BORING SB-62/62C

PROJECT LOCATION Halladay Street, Jersey City, NJ		Elevation (FT, NAVD88) 9.99	PROJECT NUMBER 020667601	
DRILLING CONTRACTOR Advanced Drilling, Inc.	FOREMAN Aubrey Vierheilig	DATE STARTED 08/17/07	DATE COMPLETED 08/17/07	
DRILLING EQUIPMENT GEFCO SS 15 Drill Rig turning 4.25-inch inside diameter hollow-stem augers		COMPLETION DEPTH (FT BGS) 31	ROCK DEPTH (FT) not encountered	
TYPE BIT Hollow-stem auger	SIZE AND TYPE CORE BARREL N/A	NO. SAMPLES 13	DIST. 13	UNDIST. N/A
CASING N/A	WATER DEPTH N/A	FIRST 5	COMPL. N/A	24HR N/A
CASING HAMMER WEIGHT N/A	DROP N/A	BORING LOCATION: North shoulder of Forrest Street, near western end of Forrest Street, Jersey City, NJ		
SAMPLER 2" diameter, 2' long split-spoon	INSPECTOR Eric Gaulin			
SAMPLER HAMMER WEIGHT 140 lbs.	DROP 30"			

DESCRIPTION	Sample Interval Depth (ft bgs)	Water Table	Samples				PID READINGS (PPM)					REMARKS
			Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	Sample	Ambient Air	Time	Head Space	Time Date	
19.0-25.0' Reddish brown (2.5YR4/4) fine to medium SAND (SW), little coarse sand, trace (<5%) silt, trace (<5%) fine gravel, wet, medium dense	- 23 -		10	1.5	4	1119	0.0	0.0	1119	N/A	N/A	No staining; no observable evidence of MGP contamination
					16	0.0	0.0					
					45	0.0	0.0					
					36							
25.0-25.3' Reddish brown (2.5YR5/3) fine to medium SAND (SW), moist, very dense	- 25 -		11	0.7	30	1139	0.0	0.0	1139	N/A	N/A	No staining; no observable evidence of MGP contamination
25.3-25.4' Reddish brown (2.5YR4/4) silty fine SAND (SP), moist, very dense				25	0.0	0.0						
25.4-27.2' Reddish brown fine to coarse gravel (sandstone fragments), wet	- 26 -			16								
				15								
27.2-27.8' Reddish brown (5YR4/4) silty SAND and fine SAND in layers, moist, dense	- 27 -		12	1.0	15	1142	0.0	0.0	1142	N/A	N/A	Faint naphthalene-like odors noted in this spoon; no staining, or evidence of product
27.8-30.0' Reddish brown (5YR4/4) fine sandy SILT (ML), moist	- 28 -			22	0.0	0.0						
				17								
				22								
30.0-30.5' Reddish brown (5YR4/4) laminated SILT (ML) and SILTY CLAY (CL), dry, medium stiff	- 29 -		13	1.5	N/A	1156	0.0	0.0	1156	N/A	N/A	Faint naphthalene-like odors noted in the top 1' of this spoon; no odors noted in the bottom 6" of this spoon
	- 30 -			N/A	0.0	0.0						
				N/A	0.0	0.0						
				N/A								
END OF BORING AT 31' bgs	- 31 -											1200 Sample SB-62C (30.0-30.5) collected for TCL VOC, TCL SVOC