Remedial Action Report – Forrest Street Properties (AOC FSP-1C, AOC FSP-1D, AOC FSP-1E, AOC FSP-1F, AOC FSP-1G, AOC FSP-1H, AOC FSP-1I, AOC FSP-1J, and AOC FSP-1K) Soil, Current-Use, Final, Revision 2 Garfield Avenue Group PPG, Jersey City, New Jersey

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

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Boring ID: 114-MW25A

	Number: arted Dril					Drilling Method: Hurricane Rig Type:	Coordinates (NJSPN Coordinates (NJSPN	
			12/2/2011			Core Size: 12 in	Boring Total Depth:	
	IBy: D.C					Project Manager: Scott Mikaelian	Depth to Water: NA	\
Physica	al Locatio	n: For	rest St			+	Surface Elevation:	10.2 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID
_			dry	ASPHALT		Black ASPHALT and White Concrete, de	nse.	
-1			moist	FILL		Very Dark Gray (10YR 3/1) fine to coars medium angular Gravel, trace Silt, loose.	e SAND, little fine to	MW25A-1.0
-3 -			moist	FILL		Brown (7.5YR 4/2) fine to coarse SAND, coarse angular Gravel, loose.	little Silt and fine to	MW25A-3.0
-4 - -5			moist	FILL		Black (7.5YR 2.5/1) SILT and fine Sand, (debris), soft.	trace Fill Material	MW25A-4.5
-6-			moist	FILL		Yellowish Brown (10YR 5/4) fine SAND,	uniform, loose.	MANGEA CO
-7—			wet	FILL		Dark Yellowish Brown (10YR 4/4) very fi Silt, trace medium Sand, medium dense.		MW25A-6.0
-8- -			wet	FILL		Interbedded Very Pale Brown (10YR 7/4) (7.5YR 6/6) fine SAND, trace Silt, dense		MW25A-8.0
-9 			wet	VOID	XXXXX	No Recovery.		
-10			moist	FILL		Brown (7.5YR 5/4) fine to medium SANE), medium dense.	MW25A-10.0
-11 - -12			wet	FILL		Yellowish Brown (10YR 5/6) medium SA Sand, loose. Saturated with yellow water		MW25A-12.0
-13 -13			dry	FILL		Light Yellowish Brown (10YR 6/4) fine S. medium Rock fragments, trace Silt, dens		
-14			moist	SP		Yellowish Red (5YR 5/6) medium to coar fine rounded Gravel, dense.	se SAND, some	MW25A-14.0
- 15						End of boring at 15 ft. Well set at 14.5 ft		
	ow surface			omite ore proc	essing re	esidue UNDno - non-organic undisturbed native o	leposits MGP - manu	ıfactured gas plant
	adow mat		GGM - gree			UNDorg - organic undisturbed native depo	sits CCPW - chr	omate chemical production wa

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GGM - green grey mud

Boring ID: 114-MW25B

CCPW - chromate chemical production waste

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611795.8 Drilling Method: Mud Rotary 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 Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 **FILL** fine to medium SAND, some COPR, (5YR 2.5/2) dark dry reddish brown, non plastic, loose, dry to moist, no odor, no to moist staining. 3 0.0 CONCRETE CONCRETE 0 NR NO RECOVERY 0 NR NO RECOVERY 0 0.0 **FILL** fine SAND, with silt, (5YR 4/4) reddish brown, non plastic, moist soft, moist, no odor, no staining. 1.5 NO RECOVERY NR 0.0 FILL fine SAND, with silt, (5YR 4/4) reddish brown, non plastic, moist soft, moist, no odor, no staining. NO RECOVERY NR 0.0 FILL fine to medium SAND, with fine to medium gravel, (5YR 4/3) wet reddish brown, non plastic, soft to loose, wet, no odor, no staining. NO RECOVERY 1 NR 0.0 **FILL** fine to medium SAND, with fine to medium gravel, (5YR 4/4) wet reddish brown, non plastic, loose, wet, no odor, no staining. 1.2 0.0 fine to medium SAND, with fine to coarse gravel, (5YR 4/3) SM wet reddish brown, non plastic, loose, wet, no odor, no staining, NR angular, red fine sand layer. Soils consistent with UNDno. 16 NO RECOVERY 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, 1.2 angular, red fine sand layer. Soils consistent with UNDno. NR NO RECOVERY A.GDT - 12/15/16 22 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. NR 0.6 Soils consistent with UNDno. 19 **NO RECOVERY** 0.0 SM Drill advanced 3.0 feet. Soils consistent with UNDno. 2012-09 RA PPG LOGS 3 UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade COPR - chromite ore processing residue MM - meadow mat GGM - green grey mud MGP - manufactured gas plant

2012-09 RA PPG LOGS A.GDT - 12/15/16 22:33

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: 114-MW25B

Page: 2 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611795.8 Drilling Method: Mud Rotary 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 Project Manager: Scott Mikaelian Logged By: EW Depth to Water: NA Physical Location: Forrest Street - 114-MW25B Surface Elevation: 10.3 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) -23 0.0 moist SM fine to medium SAND, with fine to medium gravel, (5YR 4/4) 1 reddish brown, non plastic, hard, moist, no odor, no staining. Soils consistent with UNDno. 0.0 SM Drill advanced 3.0 feet. Soils consistent with UNDno. 25 3 -26 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 NR NO RECOVERY 8.0 -29 -30 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. 3 -32 -33 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. 8.0 Soils consistent with UNDno. NR moist NO RECOVERY -35 bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

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Project Project	Number:	60240)739		I	Drilling Method: Hurricane	Coordinates (NJSP	NAD83) x: 611841.6
	arted Dril					Rig Type:		NAD83) y: 683638.6
						Core Size: 12 in		
			12/2/2011				Boring Total Depth:	
			rland, M. M	erainger		Project Manager: Scott Mikaelian	Depth to Water: N	
nysica	al Locatio	n: For	rest St		1	<u> </u>	Surface Elevation:	10.6 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID
				ASPHALT		black ASPHALT.		
-			moint	FILL	XXXX	black (5YR 2.5/1) fine to coarse SAN	D. trace oilt and	MW27A-0.5
-1 - -2			moist	FILL		medium angular gravel, loose, moist.		
-3-			moist	FILL		very dark gray (7.5YR 3/1) fine to me to medium angular gravel, trace silt a moist.	dium SAND, little fine nd fill material, loose,	MW27A-3.0
-4				NR	XXXXX	NO RECOVERY. Soft dig refusal at 3 gravel mix.	3.5 ft due to dense	
-5			moist	FILL		brown (7.5YR 5/4) SILT, and fine ang	gular Gravel, little fine	MW27A-5.0
\dashv			wet	FILL		sand, loose, moist.	_	+
-6 -7			WGL	1 ILL		olive brown (2.5Y 4/3) SILT, stiff, wet	. Slight sulfur odor.	MW27A-6.0
-8-			dry	ML		strong brown (7.5YR 5/6) SILT, little (clay, stiff, dry.	MW27A-8.0
-9			dry	NR		NO RECOVERY		
-10 -11 -12			moist	SP-SM		red (2.5YR 5/6) mottled fine SAND, a sub-angular gravel, medium dense, n		
-13 -13			wet	SW-SM		reddish brown (2.5YR 4/4) fine to coal little fine sub-rounded gravel, loose, w		
-14 			wet	NR		NO RECOVERY		
-15 -16 -17			wet	SM		reddish brown (2.5YR 4/4) fine SANE), little silt, loose, wet.	
-18				05		and dish bearing (C. SVD, 4/4) and S. C.	NAND and fine to	
	0		moist	GP		reddish brown (2.5YR 4/4) very fine s medium sub-rounded gravel, dense, r	DANU, and fine to moist.	
-20						d		
					essing re	esidue UNDno - non-organic undisturbed nati	ve deposits MGP - man	ufactured gas plant
	adow mat		GGM - gree		-	UNDorg - organic undisturbed native of	leposits CCPW - ch	romate chemical production wa

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Boring ID: 114-MW27B

Project Date St	tarted Drill	ling: ´	1/28/2014 9	9:00:00 AM		Rig Type:	Coordinates (NJSPN	AD83) y: 683631.9
				1:30:00 PM			Boring Total Depth:	
	By: FM						Depth to Water: NA	
		n: For	rest Street	- 114-MW27E			Surface Elevation:	
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphio Log	Surface Cover and Thicknes	ss:	Sample ID
		0.0		ASPHALT		gravelly ASPHALT, with mixed fill.		
	3	0.0		CONCRETE		coarse gravelly CONCRETE, with mixed bri no odor.	ck and black silt,	
 4 	0			NR		NO RECOVERY		
-5 6 	2	0.0	moist	FILL		fine to medium sandy SILT, dark gray, mois	st, no odor.	
-7 8 	2	0.0	moist	FILL		fine to medium clayey SILT, light brown, pli gravel, moist, no odor.	able, trace fine	
-9 	2	0.0	moist	FILL		fine to medium clayey SILT, some reddish t moist, no odor, some cinders.	orown, 5YR 4/3,	
10 	_	0.0		FILL		fine silty SAND, some slag and cinders, trac bands, no odor.	ce clay in thin	
-11	2	0.0		FILL		fine to medium silty SAND, reddish-brown, slag, cinders and fine gravel, loose, no odor		
-12 		0.0		FILL		fine to medium silty SAND, increasing fine cinders, 20%, dark gray.	gravel, slag and	
–13 	2	0.0	very wet	FILL		fine to coarse sandy GRAVEL, with mixed on odor.	cinders, very wet,	
-14 		0.0	wet	FILL		fine to medium silty SAND, light brown, wet	t, no odor.	
-15 - 16 - 1-	2	0.0	damp to moist	SM	X X X X X X X X X X X X X X X X X X X	fine to medium silty SAND, reddish-brown, moist, tight sand, fine gravel, no odor. Soils UNDno.	5YR 4/3, damp to consistent with	
-1 <i>/</i>	2	0.0	wet	SM		fine to medium silty SAND, reddish-brown, fine gravel, loose, thin bands of gray silt, we consistent with UNDno.	5YR 4/3, trace et, no odor. Soils	
-18 	-	0.0	wet	SP		fine to medium SAND, and medium gravel, reddish brown, non plastic, loose, wet, no o Soils consistent with UNDno.		
-19 	0			NR		NO RECOVERY		
-20 21 	3	0.0		SP		Drill advanced 3.0 feet. Soils consistent with	h UNDno.	
	low surface		COPR - chr GGM - gree	omite ore proce	ssing re	sidue UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposit	osits MGP - manu	factured gas plant omate chemical production wa

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Boring I	D : 1	14-N	1W27B
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Page: 2 Project Name: PPG Garfield Ave Drilling Company: SGS North America

Project Number: 60240739

Date Started Drilling: 1/28/2014 9:00:00 AM Drilling Method: Mud Rotary Coordinates (NJSPNAD83) x: 611835.7 Coordinates (NJSPNAD83) y: 683631.9 Ria Type:

				9:00:00 AM		Rig Type:		NAD83) y: 683631.9
		illing:	1/29/2014	1:30:00 PM		Core Size: 2.0 in	Boring Total Depth:	
	By: FM					Project Manager: Scott Mikaelian	Depth to Water: N	
Physical	Locatio	n: For	rest Street	- 114-MW27	В	_	Surface Elevation:	10.6 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Th	ickness:	Sample ID
23								
-24-	1.2	0.0	moist	SP		fine to medium SAND, and fine to coareddish brown, non plastic, hard, mois Soils consistent with UNDno.		
				NR		NO RECOVERY		
-25 26 	3	0.0		SP		Drill advanced 3.0 feet. Soils consiste	nt with UNDno.	
28		0.0	moist	SM		fine to medium SAND, with fine to coa	arse gravel. (5YR 4/3)	_
29	1.5					reddish brown, non plastic, hard, mois Soils consistent with UNDno.	st, no odor, no staining.	
				NR		NO RECOVERY		
-30 -31		0.0		SM		Drill advanced 3.0 feet. Soils consiste	nt with UNDno.	
-32-	3							
33	1.5	0.0	moist	SM		fine to medium SAND, with fine to coordinate reddish brown, non plastic, hard, mois Soils consistent with UNDno.	arse gravel, (5YR 4/3) st, no odor, no staining.	-
35				NR		NO RECOVERY		
Notes:	w surface	grade	COPR - chro	omite ore proc	essing re	esidue UNDno - non-organic undisturbed nati	ve deposits MGP - man	ufactured gas plant
им - mead	alance	•	0014	n grey mud	•	UNDorg - organic undisturbed native d		romate chemical production was

A E C O M

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	Name: F					Drilling Company: SGS North America	0	AD00\ 044040 =
	Number:					Drilling Method: Geoprobe	Coordinates (NJSPN	
			7/22/2015 9			Rig Type:	Coordinates (NJSPN/	AD83) y: 683693.1
Date Fi	nished Dr	illing:	7/22/2015	9:25:00 AM		Core Size: 2 in	Boring Total Depth:	15 ft
ogged	By: EW					Project Manager: Scott Mikaelian	Depth to Water: NA	
Physica	al Locatio	n: For	rest Street	- 114-MW37			Surface Elevation:	
Donth								
Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
.]		0.0		FILL		GRAVEL, fill material.		
-1-		0.0	dry	FILL		fine to medium SAND,trace fine gravel f 3/2) dark brown,dry,no odor,no staining.		
 -2 	3	0.0	dry	FILL		fine SAND, with ash and cinders, trace sl concrete, (7.5YR 3/2) dark brown, dry, no		
-3				NR	XXXXX	NO RECOVERY.		
-4-		0.0	alm.		XXXX	fine CAND with selected sinders trace of		
		0.0	dry	FILL		fine SAND, with ash and cinders, trace sl		
_]		0.0	moist	FILL	₩₩	concrete, (7.5YR 3/2) dark brown, dry, no	rown moiet no	
-5-		0.0	wet	FILL	\bowtie	medium SAND, with brick, (7.5YR 4/2) b	TOWIT,THOIST,TIO	
- 4		0.0	moiet	EILI		medium SAND,trace tar-like material,(7.	5YR 3/2) dark	
-6- 	3	0.0	moist	FILL		brown,wet,no odor,no staining. fine SAND,some silt,(7.5YR 4/1) dark gr staining.	· /	
_7 				NR		NO RECOVERY.		
8- 9		0.0	moist	FILL		fine SAND,some silt,(7.5YR 4/1) dark gr staining.	•	
- 10 10 	3.5	0.0	moist	SM		UNDno fine to medium SAND,trace fine reddish brown,moist,no odor,no staining with UNDno.		
				NR		NO RECOVERY.		
12 13 14 15	3	0.0	wet	SM		UNDno medium SAND,with fine gravel, reddish brown,wet,no odor,no staining. S UNDno.		
	ow surface adow mat		COPR - chro GGM - greer	omite ore proc n grey mud	essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu osits CCPW - chro	factured gas plant omate chemical production wa

Boring ID: 114-MW37B

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611917.3 Drilling Method: Geoprobe Date Started Drilling: 6/23/2015 9:30:00 AM Coordinates (NJSPNAD83) y: 683689.1 Rig Type: Date Finished Drilling: 6/23/2015 2:45:00 PM Core Size: 2 in Boring Total Depth: 35 ft Depth to Water: NA Logged By: EW Project Manager: Scott Mikaelian Physical Location: Forrest Street - 114-MW37B Surface Elevation: 11.2 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) FILL GRAVEL, fill material. 0.0 coarse SAND, with fine gravel, (7.5YR 2.5/1) black, dry, no 0.0 drv FILL dry FILL odor, no staining. 0.0 3 fine to medium SAND, with silt fill material, (7.5YR 4/2) 0.0 dry FILL dry brown, slightly moist, no odor, no staining 0.0 **FILL** fine SAND, with ash and cinders, (7.5YR 4/1) dark NR gray,dry,no odor,no staining,trace coal FILL fine SAND, with coal and ash, (7.5YR 2.5/1) black, dry, no 0.0 dry staining, little cinder, tar-like odor. 0.0 slightly FILL NO RECOVERY. moist 3 fine SAND, with coal and ash, (7.5YR 2.5/1) black, dry, no staining, little cinder, tar-like odor. fine SAND, and silt, (10YR 4/2) dark grayish brown, slightly NR moist,slight tar-like odor,no staining. NO RECOVERY 0.0 moist FILL fine SAND, some silt, (10YR 5/1) gray, moist, no odor, no 0.0 wet SF staining. 3.5 UNDno fine to medium SAND, with medium gravel, (5YR 4/3) reddish brown, wet, no odor, no staining. Soils consistent with UNDno. NR NO RECOVERY. 12 0.0 wet UNDno medium to coarse SAND, with medium to coarse SF gravel,(5YR 2.5/2)dark reddish brown,wet,no odor,no 13staining. Soils consistent with UNDno. 2 14 NR NO RECOVERY. 15 16 0.0 UNDno medium to coarse SAND, with medium to coarse SP wet gravel,(5YR 2.5/2) dark reddish brown,wet,no odor,no staining. Soils consistent with UNDno. 3 0.0 moist SP 18-UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with -10-UNDno. NR NO RECOVERY -20-0.0 SP UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish moist brown, moist, no odor, no staining. Soils consistent with -21-UNDno. 4 -22 -23 -24 0.0 SP moist UNDno fine to medium SAND, trace silt, (5YR 4/3) reddish brown, moist, no odor, no staining. Soils consistent with -25 4 26 -28 0.0 SP UNDno fine to medium SAND, trace silt and fine gravel, (5YR moist 4/3) reddish brown, moist, no odor, no staining. Soils -29 consistent with UNDno. 4 -30 -31 -32 0.0 SP UNDno fine to medium SAND, trace silt little medium moist

gravel,(5YR 4/3) reddish brown,moist,no odor,no staining.

Soils consistent with UNDno.

Notes

-33-

34

3

-3/3/17 08:

A.GDT

84 PPG - 35

2012-09

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: EF-05

30 Knight	tsbridge Road 732.564.3200	1 Piscat	taway, NJ 088 elephone	354				Boring	ID: EF-0
Project Na	ame: PP	G Soil	RIWP			Company:			Page: 1
Project Nu Date Start	ed Drilling	g: 4/	11/2011		Rig Type	e: Airknife/	irknife/Geoprobe /Geoprobe	Coordinates (NJSPNAD83) x: 611683.3 Coordinates (NJSPNAD83) y: 683662.2	
Date Finis Logged By				ger	Core Siz		Robert Cataldo	Boring Total Depth: 25 ft Depth to Water: 3/20 ft	
Physical L	ocation:				•			(Note bas = below aroun	d surface)
Depth	Recovery	PID	Moisture	GA		Graphic		, ,	Sample
Range (ft bgs)			Content		USCS	Log	Su	urface Cover and Thickness:	Number
-1		0	dry	2	Fill		Black Asphalt		EF-B05_0.5
2		0	ury	4B	ΓIII		COPR (50%), little f	5/2) SILT, some fine to medium Sand and fine to medium angular Gravel, loose, dry.	EF-B05 2.0
3		0	moist	4B	Fill			n (5YR 2.5/2) SILT, some fine to medium	EF-B05_2.5
4		2.0	moist to	6	Fill		loose, moist. No od		EF-B05 4.0
5		0.3	wet				Black COAL ASH as Slight petroleum ode	nd CINDERS, loose, moist to wet at 3'. or.	LI -D05_4.0
6		13.3	wet	6	Fill		Black-stained mediu	um to coarse crushed FILL MATERIAL (coal,	EF-B05 6.0
7			wet	3	Fill		very fine Sand and	ttle fine SAND, trace Silt and interbedded Ash, wet, loose. Coal Tar odor.	
8	1.5				Fill		wet, soft. No odor.	um to very fine SAND, little Silt, trace Ash,	
9							No Recovery		
10		0.4							EF-B05 10.
11		0.7	wet	6	Fill			um to coarse crushed FILL MATERIAL (coal, and SILT, little fine SAND, wet, loose. Coal	
12		0.2	wet	7	OL		Tar odor.	5Y 3/1) to Light Olive Brown (2.5Y 5/3)	
13	5	0.1					ORGANIC SILT, we	et, soft. Slight Coal Tar odor.	EF-B05_12.
14		0.1				====			
15		0.1	moist	10	SP-SM			R 4/4) fine to medium SAND and SILT, some -angular Gravel, trace Clay, moist, dense.	
16		0.1					No odor.	angular Gravor, trace etay, molet, denies.	
17		0.1							EF-B05_17.
18	2.8				00.014		No December		_
19					SP-SM		No Recovery		
20		0.4							
21		0.6	wet	10	SP-SM		interbedded Black-s	R 4/3) fine to medium SAND and SILT, some stained fine to medium angular Gravel	
22	_	0.3					(20.0-21.0'), wet, loo	ose. Coal Tar odor.	FE 30= 1
23	5		wet	10	SP			R 4/3) fine to medium SAND, little medium Silt, wet, loose. No odor.	EF-B05_22.
24		0.2					-		
25		0.1							
26							End of boring at 25	ft.	
27									
28									
29									
30									
31									
32									
33									
34									
35									

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Comments: No COPR/GGM identified at this location.

Boring ID: EF-46/ICO-20

Page: 1 Project Name: PPG Soil RIWP Drilling Company: SGS Project Number: 6015-4801 Coordinates (NJSPNAD83) x: 611717.0 Drilling Method: Airknife/Geoprobe 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 Depth to Water: 0.5 ft Project Manager: Robert Cataldo

Depth Recovery PID Moisture GA (Brift) graph (Criteria Class USCS Graphic Logic Surface Cover and Thickness. Sample Number (Bright Spen) Content Class USCS Graphic Surface Cover and Thickness. Sample Number (Bright Spen) Content Class USCS Graphic Surface Cover and Thickness. Sample Number (Bright Spen) Content Class USCS Graphic Surface Cover and Thickness. Sample Surface Cover and Thickness. Surface Cover and Thickness. Sample Surface Cover and Thickness. Surface Cover and Th	J A	Physical	Location:	End	of Forrest	Street	, in loading	dock				
Range Recovery Secretary Secretary Surface Cover and Thickness Sample Surface Cover and Thickness Sample Surface Cover and Thickness Surface Cover and Surface Surface Surface Cover and Surface Surface Surface Surface Cover and Surface Surface Cover S	5										(Note bgs = below ground s	urface)
1	SOIL INVE	Range	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS				Surface Cover and Thickness:	
2	Ż	_, _		0			Fill	P \$ 1	<i>P</i> △	_	Concrete (Apron to Loading Dock), no rebar - wire mesh instead.	ICO-20_0.5
Mark 3 Fill	9				wet	3	Fill		\bowtie		Black (10YR 2/1) CLAYEY SILT, Organic, trace fine to coarse	
1		2		0					\bowtie			ICO-20_2.0
Black (10 No 27) Black (10 N	ţ	_3 -		0				-		\neg	Dark Grayish Brown (10YR 4/2) SILT, trace Clay and fine to coarse angular Grayel Organics, soft. No odor	_ EF-B46_2.5
Signature Sign	r l			0				111			Black (10YR 2/1) fine to coarse angular GRAVEL, little-trace	100 20 4.0
Co-20 6.0 Co-2	MAINAG									_ \	Dark Grayish Brown (10YR 4/2) SILT, trace Clay, Organic, soft.	100-20_4.0
Red	ONEC	6			wet	8	ML				Gray (2.5Y 5/1) and Yellowish Brown (10YR 5/4) SILT graded to	ICO-20_6.0
No Recovery Same as above, little Clay, 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.	ארן ארן	7	2.5	0								
9	الِّ	-8 -	2.5		wet	8	ML				No Recovery	
10											,	
11	<u>`</u>											
The content of the		10		0			M. O.				0	
12	200	11		0			SP-SM		144	_	Reddish Brown (5YR 4/3) fine to medium SAND, interbedded	
13	ž			0			o. o				with medium Gravel, little to trace Silt, trace weathered	
14	2		3.4								Mudstone, trace very dark gray Gravel, loose. No odor.	
15	Ĭ	13		U								
16 - 0 wet 10 SP-SM Same as above. EF-B46_17.0 Wet 10 SP-SM No Recovery Wet 10 SP-SM Service of the service	JEC.	14			wet	10	SP-SM				No Recovery	
16	2	15		0								
18	WAY	16		0	wet	10	SP-SM				Same as above.	
18	Š	- ₁₇ -		0								EF-B46 17.0X
19	2		2.7									EF-B46_17.0
End of boring at 20 ft.	Z L	18			wet	10	SP-SM				No Recovery	
End of boring at 20 ft.	\$	19										
21	¥ ≥	_20 _										
23 - 24 - 5 - 25 - 25 - 26 - 27 - 26 - 29 - 29 - 29 - 29 - 29 - 29 - 29	00.I/E										End of boring at 20 ft.	
24 - 25 - 26 - 26 - 27 - 28 - 29 - 29 - 31 - 31 - 31 - 31 - 33 - 32 - 33 - 33	7 Z V F F											
25	VS PSV	23										
26	<u> </u>	24										
27	001100	25										
28	VZVFF	26										
29	25.00	27										
30	25 - WC											
31	14::											
	5	30										
	-	31										
33 - 34 - 34 - 34	4B.GL	32 –										
	000											
35 -	פו	34										
	2	35										

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: EF-57A**

Project N Project N	lame: P					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPN	AD83) x· 611828 1
				8:45:00 AM		Rig Type:	Coordinates (NJSPN/	
				11:15:00 AN		Core Size: 3 in	Boring Total Depth:	
_ogged E						Project Manager: Robert Cataldo	Depth to Water: NA	
Physical	Location	n: For	rest Street	- EF-57A	1		Surface Elevation:	10.6 ft NAVD88
	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0	alan i	ASPHALT	XXXXX	ASPHALT		
-1- - - -2- -	4.0	0.0	dry to slight moist	FILL		medium SAND, with very fine gravel, (7.4 non plastic, loose to hard, dry to slightly r staining.	5YR 2.5/1) black, moist, no odor, no	
\dashv	4.8	0.0	dry	FILL	\bowtie	fine to medium SAND, with ash, (7.5YR	4/1) dark gray, non	
-3 -4		0.0	dry to slight moist	FILL		plastic, loose, dry, no odor, no staining. fine SAND, trace silt, (7.5YR 3/4) dark bi soft to loose, dry to slightly moist, no odo		
-5		0.0		NR	XXXX	NO RECOVERY		
-6-		0.0	dry to slight	FILL		fine SAND, trace silt, (7.5YR 3/4) dark be soft to loose, dry to slightly moist, no odo		
-7- -	5	0.0	moist moist to wet	FILL		fine silty SAND, (10YR 5/2) grayish brow moist to wet, no odor, no staining.	n, non plastic, soft,	
-8-		0.0	wet	FILL		fine to medium SAND, with silt and very	fine gravel (5YR	
\dashv	ŀ	0.0	wet	FILL		4/3) reddish brown, non plastic, soft, wet		
-9						\staining. fine to medium SAND, little silt, (5YR 4/3 non plastic, soft, wet, no odor, no stainin		
10		0.0	wet	FILL		fine to medium SAND, little silt, (5YR 4/3 non plastic, soft, wet, no odor, no stainin		EF-57A-10.0-10.5
-11 -12 -13	5							EF-57A-13.5-14.0
-14		0.0	wet	SM		UNDno fine to medium SAND, with medi 4/3) reddish brown, non plastic, loose, w	ium gravel, (5YR	
-15						staining. Soils consistent with UNDno.		
-16	5	0.0	wet	SM		UNDno fine to medium SAND, with medi 4/3) reddish brown, non plastic, loose, w staining. Soils consistent with UNDno.		
-18 - -19								
20		0.0				4		EF-57A-20.0-20.5
		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3 non plastic, loose, wet, no odor, no staini with UNDno.		EI -57A-20.0-20.5
	v surface			omite ore proc	essing re	esidue UNDno - non-organic undisturbed native o		factured gas plant omate chemical production wa

A E COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: EF-57A

Page: 2

<u> </u>						- ···		Page: 2
	t Name: F					Drilling Company: SGS North America		
	t Number:					Drilling Method: Geoprobe		NAD83) x: 611828.1
				8:45:00 AM		Rig Type:	Coordinates (NJSPN	
			3/10/2014	11:15:00 AN	<u>/I</u>	Core Size: 3 in	Boring Total Depth:	
	d By: EW					Project Manager: Robert Cataldo	Depth to Water: NA	
Physic	al Locatio	n: For	rest Street	- EF-57A			Surface Elevation:	10.6 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log		ess:	Sample ID
23 24 25 26 27 27	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) r non plastic, loose, wet, no odor, no stainin with UNDno.	reddish brown, g. Soils consistent	EF-57A-24.0-24.5 EF-57A-26.0-26.5
28 29 30								EF-57A-28.0-28.5
- 31 - 31 	_	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) r non plastic, loose, wet, no odor, no stainin with UNDno.		EF-57A-30.0-30.5 EF-57A-32.0-32.5
- 33 - 34 - 34 35	5							EF-57A-34.0-34.5
 36 - 37	5	0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/3) r non plastic, loose, wet, no odor, no staining with UNDno.	reddish brown, g. Soils consistent	EF-57A-36.0-36.5
38 39 								EF-57A-38.0-38.5
40								
MM - me	low surface eadow mat		COPR - chr GGM - gree	omite ore proc n grey mud	essing r	residue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native deposi	posits MGP - manu its CCPW - chr	ufactured gas plant romate chemical production waste

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

USPSW2VFP001/ENVIRONMENTYPISCATAWAYIPROJECTYPPG-NJCPROGRAMI9-WORKFILESIPROJECT MANAGER-CATALDOBIGA RI-SOIL INVESTIGATIONIFIELD WORKIBORING LOGSIGINT

- 11/3/11 14:35 - \\USPSW2VFP001\DATA

STD US LAB.GDT

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

STD US LAB GDT - 1/13/11 14:36 - NUSPSW2VFP001/DATA USPSW2VFP001/ENVIRONMENT/PISCATAWAY/PROJECT/PPG-NJCPROGRAM/9-WORKFILES/PROJECT MANAGER-CATALDOBIGA RI-SOIL INVESTIGATION/FIELD WORKBORING LOGS/GINT

GINT

Comments: No COPR/GGM identified at this location.

Boring ID: EF-73

Piscataway, NJ 08854 Page: 1 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 Project Manager: Robert Cataldo Depth to Water: 5/11.5 ft Logged By: B. Daniels, M. Merdinger Physical Location: Inside Granite Building, Forrest St. (Note bgs = below ground surface) Recovery PID Moisture GΑ Graphic Sample Range **USCS** Surface Cover and Thickness: Content (ft/ft) (ppm) Class Log Number (ft bgs) dry 1 Fill Concrete 0 Strong Brown (7.5YR 5/6) fine to coarse SAND and fine to moist 3 Fill medium angular GRAVEL, some Fill (slag, coal, ash, cinders), 0 2 loose. No odor. EF-B73 2.5 0 3 0 4 0 5 3 Fill Dark Brown (7.5YR 3/2) and Brown (10YR 4/3) Clayey SILT to wet 0 6 SILT, some fine to medium Sand at 5.0-5.5', soft. No odor. 3.5 EF-B73_7.5X 0 8 EF-B73 7.5 SP-SM Reddish Brown (5YR 4/4) SILT and very fine SAND, trace 10 wet 9 SP-SM wet 10 coarse Sand, medium dense. No odor. No Recovery 0 10 10 ML Strong Brown (7.5YR 5/6) and Gray (10YR 5/1) mottled SILT, moist 0 11 dense. No odor. 12 0 wet 10 SP-SM Reddish Brown (2.5YR 4/4) medium SAND, some Silt and fine EF-B73 12.5 3.1 to medium angular Gravel, medium dense. No odor. 0 13 10 SP-SM No Recovery wet 14 15 10 SP-SM Reddish Brown (2.5YR 4/4) fine to medium SAND, little fine to wet 0 16 medium rounded Gravel from 17-18.5', trace Silt, loose. No odor. 0 17 3.5 EF-B73_17.5 0 18 19 wet 10 SP-SM No Recovery 0 20 10 SP-SM Same as above. wet 0 21 0 22 Reddish Brown (2.5YR 4/4) very fine SAND, little interbedded wet 10 SP-SM EF-B73_22.5 3.3 Silt, little fine angular Gravel from 22.5-23.3, medium dense to 23 dense. No odor. 10 SP-SM No Recovery wet 24 25 End of boring at 25 ft. 26 27 28 29 30 31 32 33 34

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: EF-73A

	Name: F Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSP	NAD83) x· 611768
			4801 6/1/2015 11	.50.00 VW		Rig Type:	-	NAD83) x: 611768 NAD83) y: 683636.5
				0:40:00 AM		Core Size: 3 in	Boring Total Depth:	
	By: EW		JIZIZU 13 1	0.70.00 AIVI		Project Manager: Robert Cataldo	Depth to Water: N	
	al Locatio					110jout manager. 1000ert Catalut	Surface Elevation:	
	E00aliO				1		Juliuoo Elevatioii.	5.5 IC IV (V DOU
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	kness:	Sample ID
		0.0	dry	FILL		medium SAND,trace slag,(7.5YR 3/2) d odor,no staining.	ark brown,dry,no	EF-73A-0.0-0.5
		0.0	dry	FILL FILL		medium SAND,trace coarse gravel trace reddish brown,dry,no odor,no staining.	e coal,(5YR 3/2) dark	1
-2-		0.0	moist slightly	FILL	+	fine to medium SAND,(7.5YR 3/2) dark	brown,moist,no	EF-73A-2.0-2.5
-3 -4	4.5	0.0	moist dry	FILL		\times_\text{odor, no staining.} medium SAND, with ash and cinders, (10 yellowish brown, slightly moist, no odor, no fine SAND, trace silt, (7.5YR 3/1) very day odor, no staining.	OYR 3/4) dark o staining.	EF-73A-4.0-4.5
-				ND	_XXXX	<u> </u>		-
-5		0.0	dry	NR FILL		NO RECOVERY. fine SAND, trace silt, (7.5YR 3/1) very dar odor, no staining.	rk gray,dry,no	-
-6-		0.0	moist	FILL		fine SAND,some silt,(7.5YR 6/1) gray,m	noist,no odor,no	EF-73A-6.0-6.5
-7 	4.5					staining.		FF 724 2.2.2.5
-9 -		0.0	moist	SM		UNDno medium SAND, some silt,(5YR brown,moist,no odor,no staining.Soils country.		EF-73A-8.0-8.5
-10 - -11		0.0	moist	SM		UNDno medium SAND,some silt, (5YR brown,moist,no odor,no staining. Soils c UNDno.		EF-73A-10.0-10.5
-12 	4.5	0.0	moist	SM		UNDno fine to coarse SAND, with mediu	ım gravel (5YR 3/2)	EF-73A-12.0-12.5
13 — — 14 —			e.et			dark reddish brown,moist,no odor,no sta consistent with UNDno.		EF-73A-14.0-14.5
\dashv	4			NR	1.1.1.	NO RECOVERY.		†
-15 	4	0.0	moist	SM		UNDno fine to coarse SAND,with mediu dark reddish brown,moist,no odor,no sta		-
-16 - - -17						consistent with UNDno.	Š	EF-73A-16.0-16.5
18 -						1		EF-73A-18.0-18.5
19 -				NR	<u> </u>	NO RECOVERY.		1
20		0.0	moist	SM		UNDno fine to coarse SAND, with mediu		EF-73A-20.0-20.5
21						dark reddish brown,moist,no odor,no sta consistent with UNDno.	anning. Sons	
-22	5					:		EF-73A-22.0-22.5
23	5							
24								EF-73A-24.0-24.5
25		0.0	moist	SM		UNDno fine to coarse SAND, with mediu dark reddish brown, moist, no odor, no sta	ım gravel,(5YR 3/2)	_
otes:					<u>1011016</u>	·1		
gs - belo	ow surface adow mat		COPR - chro GGM - greer	omite ore prod	cessing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - man	ufactured gas plant romate chemical production wa
mments:	uuuw iilal		Julyi - greer	r grey muu		Orabory - Organic undisturbed native dep	OSIO OUTVV - CII	romate onemical production Wa

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Boring	ID:	EF-7	73A
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Project Name: Project Number					Orilling Company: SGS North Ameri Orilling Method: Geoprobe	Coordinates (N	JSPNAD83) x: 611768
Date Started Dr			1:20:00 AM		Rig Type:		SPNAD83) y: 683636.5
Date Finished D					Core Size: 3 in	Boring Total De	
Logged By: EV					Project Manager: Robert Cataldo	Depth to Water:	NA
Physical Locati							on: 9.5 ft NAVD88
Depth Range ft bgs)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and	Thickness:	Sample ID
5 28 					consistent with UNDno.		EF-73A-26.0-26.5 EF-73A-28.0-28.5
-29 30 31 31 32 5	0.0	moist	SM		UNDno fine to coarse SAND,(5YR brown,moist,no odor,no staining. S UNDno.	R 3/2) dark reddish Soils consistent with	EF-73A-30.0-30.5
-33- -34- 35-	0.0	moist	SM		UNDno fine to coarse SAND, (5YF brown,moist,no odor,no staining. S	R 3/2) dark reddish Soils consistent with	EF-73A-34.0-34.5
-36 -37 -38 -39					UNDno.	Solid Consider Willi	EF-73A-36.0-36.5 EF-73A-38.0-38.5
- " -							EF-73A-39.5-40.0
40							

PPG - GINT STD US LAB.GDT - 1/13/11 14:36 - "IUSPSWZVFP001/DATA_USPSWZVFP001/DENTN/RONMENTN/RSCATAWAY/PROJECT/PPG-NJCPROGRAM/9-WORKFILES/PROJECT MANAGER-CATALDOB/GA RI-SOIL INVESTIGATION/FIELD WORK/BORING LOGS/GINTL

		htsbridge Road 732.564.3200			354				Boring l	D: EF-75
	Project N	lame: PP	G Soil	RIWP			Company:		Coordinates (NICDNAD92) v. 644969 4	Page: 1
		lumber: 6					Method: Ge e: Geoprob		Coordinates (NJSPNAD83) x: 611868.4 Coordinates (NJSPNAD83) y: 683678.2	
		shed Drilli				Core Siz		С	Boring Total Depth: 20 ft	
		By: B. Da			aer			Robert Cataldo	Depth to Water: 5.0 ft	
								any property.		
2				<i>'</i>					(Note bgs = below ground	surface)
GOIL INVES	Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Sur	face Cover and Thickness:	Sample Number
			0	dry	2	Fill		Asphalt and Gravel		
<u>}</u>	1	-		dry	3	Fill		Dark Brown (7.5YR 3	3/2) SILT, little fine to medium Gravel, trace	
3	2		0					coarse Sand, loose.	NO Odor.	
3			0							
}	3			dry	3	Fill		Black coarse GRAVE	EL and SILT, very dense.	
	4									
2	_5 _		0	dry	1	Fill		Concrete slab		
5			0	wet	3	Fill		Dark Brown (7.5YR 3	3/2) and Brown (10YR 4/3) Clayey SILT to	
3	6							SILT, some fine to m	nedium Sand at 5.0-5.5', soft. No odor.	
	_7		0							EE D75 7.5
扑	_8 _	3		wet	10	SP-SM		Reddish Brown (5YR	R 4/4) SILT and very fine SAND, trace	EF-B75_7.5
				wet	10	SP-SM		coarse Sand, mediur	m dense. No odor.	
? -	9							No Recovery		
	10		0							EF-B75_10.0
	- ₁₁ -		0	wet	10	SP-SM		Same as above.		
1			0							
3	12	2.9	0		4.4			D 1 1 D (0.5)	(2.11)	_
	13			moist	11	GM	999	Reddish Brown (2.5) Reddish Brown (2.5)	/R 4/4) fine to medium SAND and fine tle Silt, dense. No odor.	
5	- ₁₄ -			moist	11	GM		No Recovery	ine ont, derioe. 140 oder.	
3			0				000			
-	15			moist	11	GM	10110	Same as above with	n interbedded Silt and medium Sand.	
	16		0				60000			
5	⁻ 17 ⁻		0							
2	- ₁₀ -	2.5			4.4		I de Je	N. D.		
┋┠	18			moist	11	GM		No Recovery		
3	19						200			
≨ŀ	_20 _									
Įſ								End of boring at 20 fl	t	
Ĭŀ										
ş	22									
	23									
5										
<u></u>	25									
	26									
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şŀ	31									
įΕ	32									

Comments: No COPR/GGM identified at this location.

33 34 30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

	Name: F					Drilling Company: SGS North America	-	
	Number:					Drilling Method: Soft Dig/Geoprobe		NAD83) x: 611805.4
				0:30:00 AM		Rig Type:	Coordinates (NJSPN	
				12:35:00 PM		Core Size: 2 in	Boring Total Depth:	
	IBy: Ben					Project Manager: Robert Cataldo	Depth to Water: NA	
Physica	al Locatio	n: For	rest Street	-EF-112	1	_	Surface Elevation:	10.4 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID
				ASPHALT		ASPHALT		
			dry	FILL		fine to coarse silty SAND, little fine to c	oarse gravel and fill	
-1-			dry	FILL		material, (7.5YR 3/2) dark brown, dry, r (Glass, brick). 10% COPR.		EF-B112-1.0-1.5
-2-			dry	FILL		fine to coarse silty SAND, little fine to n silt, (2.5YR 3/3) dark reddish brown (7. no odor, rounded, 90% COPR COBBLES, USCS 670 USCS 700	nedium gravel little 5YR 4/2) brown, dry,	
otes:	ow surface	grade	COPR - chro	omite ore proce	essina re	esidue UNDno - non-organic undisturbed native	e deposits MGP - manu	ıfactured gas plant
IM - mea	adow mat	J. 440	GGM - gree	n arev mud		esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de	posits CCPW - chr	ıfactured gas plant omate chemical production wa

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Boring ID: EF-112A

Project	Number:	6015-	4801		ı	Drilling Method: Geoprobe	Coordinates (NJSPN	IAD83) x: 611806
				8:30:00 AM		Rig Type:	Coordinates (NJSPN	
				1:15:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: EW		0, 12,201			Project Manager: Robert Cataldo	Depth to Water: NA	
			rest Street	- EF-112A			Surface Elevation:	
-								
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
		0.0		ASPHALT		ASPHALT		
-		0.0	dry	FILL	\bowtie	fine to medium SAND, with fine gravel, (7.5YR 3/4) dark	
-1— - -2—		0.0		CONCRETE	P a a	brown, non plastic, loose, dry, no odor. CONCRETE		
-3 -4	5	0.0	slightly moist dry	FILL FILL		COPR, some sand and silt, (5YR 4/3) re plastic, soft to loose, slightly moist, no or fine to coarse SAND, with fine gravel, (7 brown, non plastic, loose, dry, no odor, r	dor, no staining. .5YR 3/4) dark	EF-112A-2.0-2.5 EF-112A-4.0-4.5
-		0.0	المامان	FII.I		fine silt CAND trees brief (40)/D F(0)	velles de le consense de la consense	
-5 -		0.0	slightly moist wet	FILL		fine silty SAND, trace brick, (10YR 5/8) plastic, soft, slightly moist, no odor, no single SILT, little fine sand, (10YR 4/6) dark ye plastic, soft, wet, no odor, no staining.	taining.	
-6 -7	4.4	0.0	wet	FILL		SILT, (10YR 4/4) dark yellowish brown, wet, no odor, no staining.	non plastic, soft,	EF-112A-6.0-6.5
-8 -9 -	7.7			NR		NO RECOVERY		EF-112A-8.0-8.5
-10								EF-112A-10.0-10.5
_ -11 -12 -13 -	5	0.0	saturated	FILL		fine silty SAND, trace very fine gravel, (5 red, non plastic, soft, saturated, no odor,		EF-112A-12.0-12.5
-14 -		0.0	moist	SM		UNDno fine to medium SAND, with fine reddish brown, non plastic, soft, moist, n red fine sand. Soils consistent with UND	o odor, no staining,	EF-112A-14.0-14.5
15 — —		0.0	wet	SM		UNDno fine to medium SAND, with (5YF brown, non plastic, soft, wet, no odor, no sand. Soils consistent with UNDno.	R 5/3) reddish	
-16 -17 -18	3.5					Sand. Sons Consistent With ONDIO.		EF-112A-16.0-16.5 EF-112A-18.0-18.5
_ -19				NR		NO RECOVERY		
20								
-20 - -21 -		0.0	wet	SM		UNDno fine to medium SAND, with (5YF brown, non plastic, soft, wet, no odor, no sand. Soils consistent with UNDno.		EF-112A-20.0-20.5
	low surface eadow mat		COPR - chr GGM - gree	omite ore proce	essing re	sidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manu	factured gas plant omate chemical production w

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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: EF-112A

<u> </u>			=			la		Page: 2
	t Name: F					Drilling Company: SGS North America	Coordinates (NJCD)	NA D00) C4400C
	t Number:			8:30:00 AM		Drilling Method: Geoprobe Rig Type:	Coordinates (NJSP) Coordinates (NJSP)	
				1:15:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: EW		0/12/201	F 1.10.00 1 W		Project Manager: Robert Cataldo	Depth to Water: N/	
			rest Street	- EF-112A			Surface Elevation:	
Depth Range (ft bgs)	Recovery	PID (ppm)	Moisture Content	USCS	Graph Log	ic Surface Cover and Thickn	ess:	Sample ID
 23 	. 5							EF-112A-22.0-22.5
25 25 		0.0	wet	SM		UNDno fine to medium SAND, with fine g	ravel, (5YR 5/3)	EF-112A-24.0-24.5
26 27 	5					red fine sand, green stained water identified bgs. Soils consistent with UNDno.		EF-112A-26.0-26.5
— 28 — — — — — 29 — — —								EF-112A-28.0-28.5
30 31 32		0.0	wet	SM		UNDno fine to medium SAND, with fine g reddish brown, non plastic, soft, wet, no o red fine sand. Soils consistent with UNDn	dor, no staining,	EF-112A-30.0-30.5
- 33 - 33 34 34	5							EF-112A-32.0-32.5 EF-112A-34.0-34.5
35 36		0.0	wet	SM		UNDno fine to medium SAND, with fine g reddish brown, non plastic, soft, wet, no o red fine sand. Soils consistent with UNDn	dor, no staining,	
 37 	5							EF-112A-36.0-36.5
- 38 - 39 - 								EF-112A-38.0-38.5
40								
Notes: bgs - be MM - me	low surface eadow mat	grade	COPR - chr GGM - gree	omite ore proc n grey mud	essing r	residue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - man its CCPW - ch	ufactured gas plant romate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: EF-113

	t Number:			0.20.00 414		Drilling Method: Soft Dig/Geoprobe		AD83) x: 611756.2
				9:38:00 AM		Rig Type: Core Size: 2 in	Coordinates (NJSPNA	
	d By : Ben			2 11:10:00 AM		Project Manager: Robert Cataldo	Boring Total Depth: Depth to Water: NA	JU IL
	al Locatio			FF_112		FIOJECT Manager. Nobert Cataluo	Surface Elevation: 10	.6 ft NAVD 88
	ui Localio		icai alieel			1	Guilace Lievation. 10	.0 1. 14/14 00
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
				CONCRETE	P & 4 P	CONCRETE		
_		0.0	wet	FILL		fine to coarse SAND, and fine to coarse	gravel little silt,	EF-B113-0.5-1.0
-1		0.0	moist	FILL	\bowtie	(7.5YR 3/1) very dark gray, wet, no odor,	angular, Some fill	EF-B113-1.0-1.5
_ -2		0.0	moist	I ILL		material (Slag, concrete, coal) fine SAND, little fine to coarse gravel and (7.5YR 4/3) brown, moist, no odor, round		
_		0.6	moist	FILL		material (coal, cinders) fine silty SAND, little fine to coarse grave	I, (7.5YR 3/3) dark	EF-B113-2.0-2.5
-3 -		0.0	wet	FILL		brown, moist, no odor, angular, Trace confine to coarse silty SAND, some fine to coarse silty	parse gravel and fill	
-4- -		0.0	moist	FILL		brown, wet, slight chemical odor, subang wood fragments, debris)	ular, (Coal, slag,	
-5 	3.6	0.0	moist	ML		SILT, little fine to medium sand and fine (7.5YR 4/1) dark gray, moist, no odor, su coal. SILT, little clay trace medium sand, (7.5YR 4/1)	bangular, Trace	
-6- - -7		0.0	wet	ML		stiff, moist, no odor SILT, (2.5Y 5/2) grayish brown, medium	, , ,	
_ -8-		0.0	wet	ML		Wet at 6.6. SILT, little fine sand, (2.5Y 5/3) light olive	e brown, stiff, wet.	
_		0.0	moist	ML NR		no odor SILT, (10YR 6/4) light yellowish brown, v		
-9 -	3.4					NO RECOVERY		
–10 <u> </u>		0.0	moist	ML		SILT, (10YR 6/4) light yellowish brown, s		
-11		0.0	wet	ML SW		SILT, little clay, (10YR 5/6) yellowish bro odor		
-12			wet			fine to medium SAND, little fine to mediu 5/4) reddish brown, dense, wet, no odor,	subrounded	
_ _13		0.0	wet	SW		fine to coarse SAND, little fine to medium reddish brown, dense, wet, no odor, angu		
_ _14				NR		NO RECOVERY		
_ _15	2.5	0.0	wet	SW	*****	* fine to coarse SAND, little fine to coarse	gravel (2.5VP.5/4)	
_						reddish brown, dense, wet, no odor, suba	angular \ /	
-16 		0.0	wet	SP		medium SAND, (2.5YR 5/4) reddish brow odor	vn, dense, wet, no	
-17 -		0.0	wet	GW	X.	fine to coarse SAND, and fine to coarse of reddish brown, dense, wet, no odor, angu		
-18 - -19				NR		NO RECOVERY		
	2.8	0.0	wot	GP		fine SAND, little fine gravel, (2.5YR 5/4)	reddich brown	
_ _21		0.0	wet wet	ML ML		\dense, wet, no odor, angular SILT, little clay, (5YR 5/4) reddish brown		
		0.0	wet	SP		odor fine SAND, (5YR 5/4) reddish brown, der	nse, wet, no odor	
	low surface eadow mat			omite ore proce on grey mud	essing re	sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo		actured gas plant mate chemical production

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

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: EF-113

Project	t Name: F	PPG So	il RIWP			Drilling Company: SGS North America		r ago. Z
	Number:					Drilling Method: Soft Dig/Geoprobe		NAD83) x: 611756.2
				9:38:00 AM		Rig Type:		IAD83) y: 683651.2
				2 11:10:00 AN		Core Size: 2 in	Boring Total Depth:	
	Ben			==	Į.	Project Manager: Robert Cataldo	Depth to Water: NA	
Physic	al Locatio	n: For	rest 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 Thic		Sample ID
		0.0	wet	GP	10 X 0	fine SAND, and fine to medium gravel		EF-B113-22.2-22.7
_						coarse sand, (5YR 5/4) reddish brown, angular	dense, wet, no odor,	
23 				NR		NO RECOVERY		
24 								
-25	2.9				** ** *******			55 D440 05 0 05 5
<u> </u>			wet	SP-SM		fine silty SAND, and fine to coarse grav coarse sand, (2.5YR 5/3) reddish brown odor, angular	el little medium to n, dense, wet, no	EF-B113-25.0-25.5
26 			wet	SM		fine silty SAND, some fine to coarse gra coarse sand, (2.5YR 5/4) reddish brown		
27 			wet	SM		wet, no odor, angular fine SAND, little silt, (5YR 5/4) reddish no odor	brown, dense, wet,	
28				NR		NO RECOVERY		
29								
-30								
1								
J								
	low surface	grade	COPR - chr GGM - gree	omite ore proc	essing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	ufactured gas plant romate chemical production waste
Comments:				g juu		The second distribution in the do	20117 011	production made

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

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS6**

Droice	- Nome: [rfield Ave			Drilling Company SCS North America		raye. I
	Name: F					Drilling Company: SGS North America	Coordinates (NICDNADOS)	044707.0
	Number:			40: 44:00 DM		Drilling Method: Geoprobe	Coordinates (NJSPNAD83)	
				12:41:00 PM		Rig Type:	Coordinates (NJSPNAD83) y	
		illing:	2/25/2014	12:41:00 PN		Core Size: 3.0 in	Boring Total Depth: 40.5 ft	
	d By: FM					Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: For	rest Street	- FS6			Surface Elevation: 10.3 ft l	NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thickne	ess:	Sample ID
		0.0		ASPHALT		ASPHALT		FS6-0.0-0.5
- 1- - 1- - 2-	5	0.0	damp	FILL		fine to coarse gravelly SAND, dark gray ar layers of mixed backfill material, trace silt, nodules, 60-70% fine gravel, angular, dan reddish brown staining.	20% COPR	FS6-2.0-2.5
3		0.0	damp	FILL		fine to coarse sandy CINDERS, dark gray		
4 			to moist			damp to moist, brick fragments, glass frag odor.	gments, loose, no	FS6-4.0-4.5
5 		0.0	damp to moist	FILL		fine to coarse sandy CINDERS, dark gray some silt, becoming more sandy with dept medium sand at 6.0 ft, damp to moist, no	th, dark brown	
6 7	5	0.0	wet	FILL		fine silty SAND, gray, wet, firm, hard, well	sorted.	FS6-6.0-6.5
		0.0	wet	SM		fine to medium silty SAND, reddish-brown		
8 9 9						wet, thin gray bands of clayey silt. Soil cor UNDno.	nsistent with	FS6-8.0-8.5
10 11 		0.0	moist to wet	SM		fine to medium silty SAND, reddish-brown moist to wet, no odor. Soil consistent with		FS6-10.0-10.5
12 13	5	0.0	wet	SP-SM		fine silty SAND, reddish-brown, poorly sor gravel, wet, firm, pliable, no odor. Soil con UNDno.		FS6-12.0-12.5
- 13 - 14		0.0	wet	ML		fine to coarse silty SAND, reddish-brown, gravel, wet, soft, loose, no odor. Soil cons		500 44 0 44 5
15 15		0.0	wet to	SM		fine silty SAND, reddish-brown, 40% roun sorted, wet to very wet. Soil consistent wit		FS6-14.0-14.5
16 17 	5		very wet					FS6-16.0-16.5
18 19 								FS6-18.0-18.5
20 21 		0.0	wet	SM		fine to medium silty SAND, reddish-brown some fine gravel, loose, wet, soft, no odor with UNDno.	, poorly sorted, . Soil consistent	FS6-20.0-20.5
	5	0.0	wet	SM		fine silty SAND, reddish-brown, trace fine firm, harder, 40% silt, wet, no odor. Soil co		FS6-22.0-22.5
MM - me	low surface eadow mat		COPR - chr GGM - gree	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		gas plant nemical production waste
Comments:								

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS6**

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (N ISB	NAD83) x: 611797.3
				2:41:00 PM				NAD83) y: 683601.6
				12:41:00 PM		Rig Type: Core Size: 3.0 in	Boring Total Depth:	
	d By: FM		212312014	12.71.00 FI		Project Manager: Scott Mikaelian	Depth to Water: N	
			rest Street	- FS6		1 10,000 manager. Ocott Winacilan	Surface Elevation:	
	L. Localio	101	. Sol Oli GGL	. 00			Carrace Elevation.	10.0 1(14/1/1000
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thio	ckness:	Sample ID
_						UNDno.		
-24						1		
47						 		FS6-24.0-24.5
05						1		
-25		0.0	wet	SM		fine silty SAND, reddish-brown, 20% s	ilt, some clay, firm,	1
_	1					hard, well sorted, wet, no odor. Soil co	nsistent with UNDno.	
26 -	1					:]		FS6-26.0-26.5
_	†					†		
-27	1 .							
_	5					1		
28	1					:]		FS6-28.0-28.5
_	4					1		1 00-20.0-20.0
-29	1					:]		
	1					1		
30 —								
JU		0.0	wet	SC-SM		fine clayey SAND, reddish-brown, som	e silt, soft, pliable,	FS6-30.0-30.5
24						wet, no odor. Soil consistent with UND	no.	
-31	1					1		
_	1					1		
32-	1 ,					;		FS6-32.0-32.5
_	5					1		
33	†	0.0	damp	SC-SM		fine clayey SAND, reddish-brown, 40%	clay narticles trace	+
_	1	3.5	to	JU-JIVI		silt, firm, hard, well sorted, damp to mo	oist, no odor. Soil	
34	1		moist			consistent with UNDno.	,	FS6-34.0-34.5
_	1					¥		1 00 0-1.0-0-1.0
35		0.0			[/// 			4
_	1	0.0	moist	SM		fine silty SAND, reddish-brown, 50% s moist to wet, no odor. Soil consistent w	itt, loose, firm, hard,	
36	1		to wet			1 moist to wet, no odor. Soil consistent v	nui UNDIIU.	
_						 		FS6-36.0-36.5
_27								
-37		0.0	wet	SC-SM			e silt, soft, pliable,	
-	5.5					wet, no odor. Soil consistent with UND	no.	
38 –	1					1		FS6-38.0-38.5
_	1					1		
-39	1					 		
_	1					1		
40	†					{		FS6-40.0-40.5
_					<u>r//1:1:1</u>	.1		
otes:		<u> </u>	1					
js - be	low surface	grade	COPR - chro	omite ore prod	essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de	e deposits MGP - man	ufactured gas plant
			GGIVI - gree	n grey mud		บเทบorg - organic undisturbed native de	posits CCPW - ch	romate chemical production wa
mments:								

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30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS7**

			c		-	D. 1111 . O		Page: 1
	Name: F					Drilling Company: SGS North America	0	NA DOO) 044000 0
	Number:			2-00-00 414		Drilling Method: Geoprobe	· · · · · · · · · · · · · · · · · · ·	NAD83) x: 611806.8
				3:30:00 AM		Rig Type:	Coordinates (NJSPN	
			2/24/2014	10:47:00 AN		Core Size: 3.0 in	Boring Total Depth:	
	d By: EW al Location			F07		Project Manager: Scott Mikaelian	Depth to Water: N/	
Pnysic	ai Locatio	n: For	rest Street	- FS/	1		Surface Elevation:	10.5 IT NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickn	iess:	Sample ID
		0.0		ASPHALT		ASPHALT		FS7-0.0-0.5
 1 2		0.0	damp to moist	FILL		fine to coarse silty SAND, with some fine dark gray, damp to moist, no odor or visib		501.0.0.0
 3	5	0.0	domn	FILL		alousy SILT, dark group with light groups on	ring trace ash and	FS7-2.0-2.5
 4		0.0	damp to moist	FILL		clayey SILT, dark gray with light gray laye cinders, pliable, firm, damp to moist, no o staining.		FS7-4.0-4.5
5 		0.0		ML		clayey SILT, light to medium gray, firm ar fine to medium brown sand.		
	5	0.0	moist to wet	ML		clayey SILT, grayish brown, hard to firm, fine to very fine sand, no odor or visible st		FS7-6.0-6.5
8 9								FS7-8.0-8.5
10 11 		0.0	wet	SM		fine to medium silty SAND, reddish-brown wet, soft, loose, no odor or staining. Soil of UNDno.		FS7-10.0-10.5
-12 13 14	5							FS7-12.0-12.5
14 15		0.0	damp	GM	640	fine to medium gravelly SAND, reddish-br	rown silty matrix	FS7-14.0-14.5
- – 16 – - –			to moist	O.III		damp to moist, loose, poorly sorted. Soil of UNDno.	consistent with	FS7-16.0-16.5
-17 	5	0.0	moist	GM		fine to medium silty SAND, reddish-brown loose, non-pliable, moist. Soil consistent v		-
18 19 		0.0	wet	GM		fine to medium gravelly SILT, reddish-bro medium angular gravel, wet, some reddis grain sand. Soil consistent with UNDno.	wn, wet, 50% h-brown medium	FS7-18.0-18.5
-20 - -21 -		0.0	wet	GM		fine to medium gravelly SILT, reddish-bro reddish-brown sand, wet, loose, larger dia gravel. Soil consistent with UNDno.	wn, some medium ameter angular	FS7-20.0-20.5
- 22 -	5							FS7-22.0-22.5
ИМ - m∈	low surface eadow mat No COPR/GGM		COPR - chr GGM - gree	omite ore proc n grey mud	essing re	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - man sits CCPW - ch	ufactured gas plant romate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 2 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611806.8 Drilling Method: Geoprobe 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 PID Recovery Moisture Graphic Sample Surface Cover and Thickness: **USCS** Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 SM fine to medium silty SAND, reddish-brown, trace fine angular wet gravel, loose, soft, non-pliable, wet to very wet. Soil to consistent with UNDno. -24 very FS7-24.0-24.5 wet -25 0.0 wet SM fine silty SAND, reddish-brown, firm, non-pliable, wet, hard, no odor or staining. Soil consistent with UNDorg. -26 FS7-26.0-26.5 5 28 FS7-28.0-28.5 -29 -30 FS7-30.0-30.5 0.0 SM fine silty SAND, reddish-brown, wet, hard, firm, no odor. Soil wet consistent with UNDno. -31 32 FS7-32 0-32 5 5 -33 0.0 SM fine to medium silty SAND, reddish-brown, sand becoming wet coarser, loose, wet, soft, greater percent of medium sand, no odor. Soil consistent with UNDno. -34 FS7-34.0-34.5 35 0.0 SM fine to medium silty SAND, reddish-brown, firm, hard, moist moist to to wet, no odor or staining. Soil consistent with UNDno. wet -36 FS7-36 0-36 5 -37 5.5 -38 FS7-38.0-38.5 -39 40 FS7-40.0-40.5

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ents: No COPR/GGM identified.

GGM - green grey mud

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS8

egged By: hysical Lo epth lange bgs) 1— 2— 4— 5— 6— 7—	y: EW		rest Street Moisture Content dry dry to moist dry to sight moist moist	- FS8 USCS ASPHALT FILL FILL FILL		Surface Cover and Thickness: ASPHALT, no staining. fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	
Pysical Local Records (for some state of the source of the	ecovery (ft/ft)	PID (ppm) 0.0 0.0 0.0 0.0	Moisture Content dry dry to moist dry to sight moist	USCS ASPHALT FILL FILL FILL	Graphic	Surface Elevation Surface Cover and Thickness: ASPHALT, no staining. fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	n: 10.7 ft NAVD88 Sample ID
Pepth Inge Begs) Record (f	ecovery (ft/ft)	PID (ppm) 0.0 0.0 0.0 0.0	Moisture Content dry dry to moist dry to sight moist	USCS ASPHALT FILL FILL FILL		Surface Cover and Thickness: ASPHALT, no staining. fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	Sample ID
ange ked (f bgs) (f f f f f f f f f f f f f f f f f f f	(ft/ft)	0.0 0.0 0.0 0.0	dry dry to moist dry to sight moist	ASPHALT FILL FILL FILL		ASPHALT, no staining. fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	ID
3— 4— 5— 6— 7— 8— 9—	4.5	0.0 0.0 0.0	dry to moist dry to sight moist	FILL FILL FILL		fine to medium SAND, trace very fine gravel, (5YR 3/4) dark reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	FS8-0.0-0.5
3— 4— 5— 6— 7— 8— 9—	4.5	0.0	dry to moist dry to sight moist	FILL FILL		reddish brown, non plastic, loose, dry, no odor, no staining. fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	\rightarrow
3— 4— 5— 6— 7— 8— 9—	4.5	0.0	to moist dry to sight moist	FILL		fine to medium SAND, trace ash, (5YR 2.5/2) dark reddish	
3— 4— 5— 6— 7— 8— 9—	4.5		moist dry to sight moist	FILL FILL			/_
3— 4— 5— 6— 7— 8— 9—	4.5	0.0	dry to sight moist	FILL		\brown, non plastic, loose, dry to moist, no odor, no staining.	
3— 4— 5— 6— 7— 8— 9—	4.5		to sight moist		XXXXX	fine SAND, some silt, (7.5YR 4/6) strong brown, non plastic,	F00.0.0.5
4— 5— 6— 7— 8— 9—			moist		\bowtie	\soft, dry to slightly moist, no odor, no staining.	/ FS8-2.0-2.5
4— 5— 6— 7— 8— 9—	,				\bowtie	fine to medium SAND, some silt, little ash, (7.5YR 3/1) very	
6— 7— 8— 9—			1110101			dark gray, non plastic, soft, moist, no odor, no staining.	
6— 7— 8— 9—	,				\bowtie		
6— 7— 8— 9—	•						FS8-4.0-4.5
6— 7— 8— 9—	•			NID	XXXXX	NO RECOVERY	
7— - 8— - 9—		0.0		NR	XXXXX	NO RECOVERY	
7— - 8— - 9—		0.0	moist, moist	FILL FILL		fine to medium SAND, some silt, little ash, (7.5YR 3/1) very dark gray, non plastic, soft, moist, no odor, no staining.	
7— - 8— - 9—		U.U	to	FILL	\bowtie	SILT, little sand and fill material, (7.5YR 2.5/2) very dark	′
8— 9—			wet			brown, non plastic, soft, moist to wet, no odor, no staining.	FS8-6.0-6.5
9—							
8— 9—	_						
9—	5						
							FS8-8.0-8.5
							F30-0.U-0.3
					\bowtie		
0							
10——							
		0.0	wet	FILL		fine to medium SAND, some fine gravel, (5YR 4/3) reddish	FS8-10.0-10.5
\dashv					\bowtie	brown, non plastic, soft, wet, no odor, no staining.	
11—		0.0	moist	SM		UNDno medium SAND, trace fine to medium gravel, (5YR	
\dashv						4/3) reddish brown, non plastic, soft, moist, no odor, no	
12—						staining, red fine sands. Soil consistent with UNDno.	FS8-12.0-12.5
4	4.8						F30-12.U-12.5
13—							
7							
4					1:1:1:		FS8-14.0-14.5
\dashv							
5		0.0	wet	NR		NO RECOVERY	\overline{A}
\dashv		0.0	wel	SM		UNDno fine to medium SAND, little fine to medium gravel,	
6						(5YR 4/3) reddish brown, non plastic, soft, wet, no odor, no staining, red fine sands. Soil consistent with UNDno.	E00 10 0 10 5
						Stanning, 150 mile surius. Son consistent with Gradio.	FS8-16.0-16.5
				NID	<u> </u>	NO PECOVERY	
7—	1.8			NR		NO RECOVERY	
\exists	1.0						
8—							
\dashv							
9—							
\dashv							
20							
.~ _		0.0	wet	SM		UNDno fine to medium SAND, some medium gravel, (5YR	FS8-20.0-20.5
, 7					1:1:1:	4/4) reddish brown, non plastic, soft, wet, no odor, no staining. Soil consistent with UNDno.	
21—						รเลเทเนู. อบแบบกรายเลเน พเนา บางมาบ.	
\dashv							
tes:							
s - below s I - meadov	ourfood	arada	CODD aba	omite ore proc			

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/20/16 09:57

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS8**

			telephone				1	Page: 2
	t Name: F					Drilling Company: SGS North America		
	t Number:			20500 414		Drilling Method: Geoprobe		NAD83) x: 611854.4
				9:25:00 AM		Rig Type:	Coordinates (NJSPN	
	inisnea Dr d By: EW		2/28/2014	12:30:00 PN	/I	Core Size: 3 in	Boring Total Depth: Depth to Water: NA	
	аву: ⊵w al Locatio		roct Stroot	ECO		Project Manager: Scott Mikaelian	Surface Elevation:	
	ai Lucatio	11. 10	iesi Sileei	-130	1	1	Surface Elevation.	10.7 ICNAVDOS
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID
 23 	4.8							FS8-22.0-22.5 FS8-24.0-24.5
25 		0.0	saturated	NR SM		NO RECOVERY UNDno fine SAND, (5YR 4/4) reddish brosoft, saturated, no odor, no staining. Soil	own, non plastic	1 30-24.0-24.3
26 27 28	3.5					UNDno.	CONSISTENT WITH	FS8-26.0-26.5
				NR		NO RECOVERY		FS8-28.0-28.5
30 31		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish brosoft, saturated, no odor, no staining. Soil UNDno.		FS8-30.0-30.5
- 32 - 33	5							FS8-32.0-32.5
34 35 		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish bro soft, saturated, no odor, no staining. Soil	own, non plastic, consistent with	FS8-34.0-34.5
36 37 	. 5					UNDno.		FS8-36.0-36.5
- 38 - 39 - 40 -								FS8-38.0-38.5
40-								
MM - me	low surface eadow mat No COPR/GGM		COPR - chr GGM - gree	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - man sits CCPW - ch	ufactured gas plant romate chemical production waste

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

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS9**

Draina	Mama. F		refield Ave			Drilling Company CCC North America		rage.
	Name: F					Drilling Company: SGS North America	Coordinates (N ICDN	AD92) w. 6110E6 1
	Number:			45.00 414		Drilling Method: Geoprobe	Coordinates (NJSPN	<u> </u>
			3/5/2014 9:			Rig Type:	Coordinates (NJSPN/	
			3/5/2014	12:30:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: EW					Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: For	rest Street	- FS9			Surface Elevation:	10.7 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and Thickne	ess:	Sample ID
		0.0		ASPHALT		ASPHALT		F20.0.2.0.0
 1 		0.0	dry to moist	FILL		fine to medium SAND, with fine to medium 3/1) very dark gray, non plastic, loose, dry no staining.	n gravel, (7.5YR to moist, no odor,	FS9-0.3-0.8
 - 3- 	4.3							FS9-2.0-2.5
L				NR		NO RECOVERY		FS9-4.0-4.5
5								
 6		0.0	wet	FILL		fine to medium SAND, with silt and tar-like material, (7.5YR 2.5/1) black, non plastic, tar-like odor.		
L ¯		0.0	wet	FILL		SILT, some fine sand, (10YR 5/2) grayish	brown non	FS9-6.0-6.5
7 8	3.8	0.0	to saturated	FILL		plastic, soft, wet to saturated, no odor, no		
								FS9-8.0-8.5
9 				NR		NO RECOVERY		
10-								FS9-10.0-10.5
- 11 - 12 2	3	0.0	wet	FILL		fine to medium SAND, with fine to mediun reddish brown, non plastic, soft, wet, no o		FS9-10.0-10.5
13-				NR	 	NO RECOVERY		
 14 15		0.0			****		(F)(D 4(0)	
⊢ –		0.0	wet	FILL	XXX	fine to medium SAND, with fine to mediun reddish brown, non plastic, soft, wet, no o		
16 17 	5	0.0	wet	SM		UNDno fine to medium SAND, with coarse reddish brown, non plastic, soft, wet, no o red fine sands. Soils consistent with UND	e gravel, (5YR 4/4) dor, no staining,	FS9-16.0-16.5
18 19								FS9-18.0-18.5
- -								
20		0.0	1.101	CNA		LINDro fine to madium CAND (EVE 4/4)	roddioh brown	FS9-20.0-20.5
 21 		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) non plastic, soft, wet, no odor, no staining with UNDno.	readish brown, . Soils consistent	1 95720.0720.0
22	5							FS9-22.0-22.5
						<u> </u>		
	low surface		COPR - chr GGM - gree	omite ore proc en grey mud	essing r	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		factured gas plant omate chemical production waste
Comments:	No COPR/GGM							

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring	ID:	FS9
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Page: 2

						<u> </u>		Page: 2
	t Name: F					Drilling Company: SGS North America	0 " ((1)	NA DOO: 044050 4
	t Number:			45.00.414		Drilling Method: Geoprobe		NAD83) x: 611856.1
			3/5/2014 9:			Rig Type:		NAD83) y: 683655.9
			3/5/2014	12:30:00 PM		Core Size: 3 in Project Manager: Scott Mikaelian	Boring Total Depth:	
	d By: EW		rest Street	ESO		Project Manager: Scott Mikaelian	Depth to Water: No Surface Elevation:	
_	ai Locatio	11. 10	lest Street	-109			Juliace Lievation.	10.7 ICNAVDOO
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graph Log	Surface Cover and Thickn	ess:	Sample ID
 24 25		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish bro	own, non plastic,	FS9-24.0-24.5
—26 — — —27— — —	5					soft, saturated, no odor, no staining. Soils UNDno.	s consistent with	FS9-26.0-26.5
28 								F\$9-28.0-28.5
30 31 32		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish bro soft, saturated, no odor, no staining. Soils UNDno.	own, non plastic, s consistent with	FS9-30.0-30.5
	5							FS9-32.0-32.5
35 — - 36 —		0.0	saturated	SM		UNDno fine SAND, (5YR 4/4) reddish bro soft, saturated, no odor, no staining. Soils UNDno.	own, non plastic, s consistent with	FS9-36.0-36.5
37 38	5							FS9-38.0-38.5
—39 — — — —40 —								
MM - me	low surface eadow mat		COPR - chro	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - man sits CCPW - ch	ufactured gas plant romate chemical production waste

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

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS10

			3/4/2014 8:				ordinates (NJSPN/	
			3/4/2014	2:30:00 PM			oring Total Depth:	
	I By: EW						epth to Water: NA	
hysica	al Locatio	n: For	rest Street	- FS10	1	Su	ırface Elevation: 1	10.6 ft NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness:	:	Sample ID
		0.0	dn/	ASPHALT	XXXX	ASPHALT		FS10-0.3-0.8
. 7		0.0	dry to	FILL	\bowtie	fine to medium SAND, with fine to medium gr		
-1-		0.0	moist	FILL		4/2) brown, non plastic, loose, dry to moist, no staining.	o odor, no	
\dashv			dry		\bowtie	fine SAND, with ash and gravel, (7.5YR 4/1)	dark gray, non	
-2-		0.0	dry	FILL	\bowtie	plastic, loose, dry, no odor, no staining.	/ /	FS10-2.0-2.5
-3	4.6		to slight moist			fine to medium SAND, little silt and ash, (7.5\) dark gray, non plastic, loose, dry to slightly mono staining.	/R 3/1) very pist, no odor,	
-4							-	FS10-4.0-4.5
4					XXXX			· · · · · · · · · · · · · · · · · ·
-5-		0.0		NR	XXXXX	NO RECOVERY	i-1 (7.5)/D	
4		0.0	dry to	FILL	\bowtie	fine to medium SAND, little ash and fill materi 2.5/3) very dark brown, non plastic, soft, dry to	Ial, (7.5YK	
-6-			slight			no odor, no staining.	o ongritiy moiot,	E040.0.0.5
-7-	5		moist			·		FS10-6.0-6.5
_。								
-0-								FS10-8.0-8.5
-9—								
\dashv								
10		0.0	wet	FILL		fine to medium SAND, little silt, (5YR 4/3) red	ldish brown	FS10-10.0-10.5
-11			Wot			non plastic, soft, wet, no odor, no staining.	idion brown,	
12-	2.6				\bowtie			FS10-12.0-12.5
7	2.0			NR	(XXXXX	NO RECOVERY		
13				IVIX		NO RESOVERT		
\dashv								
14								
\dashv								
15				NR		NO RECOVERY		
4				INIX		INO ILLOOVEIXI		
16-								
4								
17—								
\perp	0							
18								
٠٠ _								
10								
19								
7								
20		0.0	wet	SM		UNDno fine to medium SAND, (5YR 4/4) redo	dish brown,	FS10-20.0-20.5
\dashv						non plastic, soft, wet, no odor, no staining.		
21								
\dashv								
-22								FS10-22.0-22.5
4	5							. 3.0 22.0 22.0
otes: is - bel	ow surface	arade	COPR - chr	omite ore proc	essina re	sidue UNDno - non-organic undisturbed native depos	its MGP - manuf	actured gas plant
	adow mat		GGM - gree		220119 16	UNDorg - organic undisturbed native deposits	CCDW obro	mate chemical production w

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS10**

	Name: F					Drilling Company: SGS North Americ		
	Number:			<u> </u>		Drilling Method: Geoprobe		NAD83) x: 611839.5
			3/4/2014 8:			Rig Type:		NAD83) y: 683634.1
			3/4/2014	2:30:00 PM		Core Size: 3 in	Boring Total Depth:	
	By: EW			F040		Project Manager: Scott Mikaelian	Depth to Water: N	
rnysica	aı Locatio	n: For	rest Street	- FS10			Surface Elevation:	10.6 Tt NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and	Thickness:	Sample ID
- 24		0.0	wet	SM		UNDno fine to medium SAND, (5Y) non plastic, soft, wet, no odor, no s	R 4/4) reddish brown, taining.	FS10-24.0-24.5
28 - - 28 - - 29 - 	5							FS10-28.0-28.5
31—		0.0	wet	SM		UNDno fine to medium SAND, (5Y) non plastic, soft, wet, no odor, no s		FS10-30.0-30.5
-33 - -34 - -	5							FS10-34.0-34.5
35		0.0	wet	SM		UNDno fine to medium SAND, (5Y) non plastic, soft, wet, no odor, no s		-
36 — — — 37 —	5.5							FS10-36.0-36.5
38	3.3							FS10-38.0-38.5
40								FS10-40.0-40.5
Notes: ogs - bel	low surface	grade	COPR - chr	omite ore prod	essing re	esidue UNDno - non-organic undisturbed n UNDorg - organic undisturbed native	ative deposits MGP - mar e deposits CCPW - ch	nufactured gas plant rromate chemical production wa
	No COPR/GGM		- 3.30	J - ,				

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:24

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS11

			telepriorie		-		T	Page: 1
	t Name: F					Drilling Company: SGS North America	O a mallion of the Control	IA DOO) 044600 0
	t Number:			11.00.00 411		Drilling Method: Geoprobe	Coordinates (NJSPN	
				11:00:00 AM		Rig Type: Core Size: 3 in	Coordinates (NJSPN	
			2/12/2014	4:00:00 PM			Boring Total Depth:	
	d By: EW al Location		ract Stract	_ FQ11		Project Manager: Scott Mikaelian	Depth to Water: NA Surface Elevation:	
_	ai Lucatio	11. 101	iesi Sireei	-1311	1	1	Surface Elevation.	10.9 IL NAVD00
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickn	ess:	Sample ID
		0.0	dry	FILL	XXXX	fine to medium gravelly SAND, (5YR 5/6)	vellowish red non	FS11-0.0-0.5
 1 2		0.0	dry to moist	FILL		plastic, loose, dry, no odor, no staining. medium to coarse SAND, trace fine to me silt, (7.5YR 3/2) dark brown, non plastic, no odor, no staining.	edium gravel, trace	
 3 4	4.5							FS11-2.0-2.5 FS11-4.0-4.5
				ND	\bowtie	NO DECOVEDY		
5 		0.0	moist	NR FILL		NO RECOVERY fine SAND, some silt, (7.5YR 3/3) dark br soft, moist, no odor, no staining.	rown, non plastic,	
—6— — – —7—	5							FS11-6.0-6.5
8 9 								FS11-8.0-8.5
—10— — —11— — —		0.0	moist to wet	FILL		medium SAND, little fine to medium grave brown, non plastic, soft to loose, moist to staining.		FS11-10.0-10.5
—12 —13 —14	5							FS11-12.0-12.5
 _ 15		0.0	wet wet	SM SM	 	UNDno fine to medium SAND, with medium 4/3) reddish brown, wet, no odor, no stain	um gravel, (5YR	
—16— — – —17—	5					\consistent with UNDno. UNDno fine to medium SAND, with mediu 4/3) reddish brown, wet, no odor, no stain consistent with UNDno.	um gravel, (5YR	FS11-16.0-16.5
—18 —19 								FS11-18.0-18.5
20 21 		0.0	wet	SM		fine SAND, with silt, (5YR 4/3) reddish br soft, wet, no odor, no staining. Soils cons	own, non plastic, istent with UNDno.	FS11-20.0-20.5
22 	5							FS11-22.0-22.5
MM - me	low surface eadow mat		COPR - chr GGM - gree	omite ore prod n grey mud	cessing re	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - manu sits CCPW - chro	factured gas plant omate chemical production waste

AECOM 30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring	ID:	FS11
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oject Name: Foject Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (NJSPN	NAD83) x: 611900.6
te Started Dril	ling: _	2/12/2014			Rig Type:	Coordinates (NJSPN	AD83) y: 683651.1
ate Finished Dr		2/12/2014	4:00:00 PM		Core Size: 3 in	Boring Total Depth:	
gged By: EW			E0.11		Project Manager: Scott Mikaelian	Depth to Water: NA	
ysical Locatio	n : For	rest Street	- FS11	1		Surface Elevation:	10.9 ft NAVD88
epth ange bgs) Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Th	ickness:	Sample ID
	0.0	wet	SM		fine SAND, with silt, (5YR 4/3) reddis	n brown, non plastic.	FS11-24.0-24.5
26					soft, wet, no odor, no staining. Soils c	onsistent with UNDno.	FS11-26.0-26.5
28— — — 29—			NR		NO RECOVERY		FS11-28.0-28.5
30	0.0	wet	SM		fine SAND, with silt, (5YR 4/4) reddis	n brown, non plaetic	FS11-30.0-30.5
31	0.0	wet	SIVI		wet, no odor, no staining. Soils consis	tent with UNDno.	1011000
-32 5 -33 							FS11-32.0-32.5
35							FS11-34.0-34.5

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:24

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FS12

	Name: F Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (N ISDN	NAD83) x: 611900.3
			2/11/2014 9	-00-00 ΔΜ		Rig Type: Coordinates (NJS		
				9:10:00 AM		Core Size: 3 in	Boring Total Depth:	
	By: EW			0. 10.00 AW		Project Manager: Scott Mikaelian	Depth to Water: NA	
			rest Street,-	FS12			Surface Elevation:	
Depth					1			
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
_		0.0	dry to moist	FILL		medium SAND, (7.5YR 2.5/1) black, nor loose, dry to moist, no odor, no staining.	plastic, soft to	FS12-0.0-0.5
-2-		0.0	moist	FILL		fine to medium gravelly SAND, some cin (7.5YR 3/1) very dark gray, non plastic, lodor, no staining.	ders and ash, oose, moist, no	5010.00.0
-3 -4	4.5	0.0	moist	FILL		fine to medium SAND, trace gravel, (7.5' brown, non plastic, soft, moist, no odor, t		FS12-2.0-2.5
\dashv				NR	_XXXXX	NO RECOVERY		
-5-		1.4	moist	FILL		fine to medium SAND, with medium grav	/el. (7.5YR 2 5/1)	1
\dashv		15.3	to	FILL		black, non plastic, loose, moist to wet, sh	neen, slight	1
-6-			wet			\petroleum-like odor.	- /	FS12-6.0-6.5
-7-	5		wet			SILT, (7.5YR 2.5/1) black, non plastic, so and petroleum-like odor.	οττ, wet, slight sheen	
	-	0.8	wet	FILL		SILT, (7.5YR 4/1) dark gray, non plastic,	soft, wet, no odor,	
-8 -9						no staining.		FS12-8.0-8.5
-10 - -11		0.0	wet	FILL		SILT, (7.5YR 4/1) dark gray, non plastic, no staining.	soft, wet, no odor,	FS12-10.0-10.5
13	4.5	0.0	moist	FILL		fine silty SAND, with fine to medium grav reddish brown, non plastic, soft to loose, staining.		FS12-12.0-12.5
-14						X		FS12-14.0-14.5
_ +				NR	_XXXXX	NO RECOVERY		1
15 -		0.0	moist	SM		UNDno medium SAND, with medium gra- reddish brown, non plastic, soft to loose, staining. Soils consistent with UNDno.		
-16						Jaming. John Consistent With ONDHO.		FS12-16.0-16.5
<u>, </u>					1:1:1:	1		
-17	4				1:4:4:			
_	7					1		
18								FS12-18.0-18.5
\dashv						.}		
19—				NR	p.1:1::0::	NO RECOVERY		1
\dashv					1			
-20 - -21		0.0	wet	SM		SAND, some silt, (5YR 4/4) reddish brow wet, no odor, no staining. Soils consister	vn, non plastic, soft, it with UNDno.	FS12-20.0-20.5
- '								
-22 -	5							FS12-22.0-22.5
otes:					10-11-010	·I		
gs - belo				mite ore prod	cessing re	esidue UNDno - non-organic undisturbed native o	deposits MGP - manu	ufactured gas plant
IVI - mea	adow mat		GGM - greer	n arev mud		UNDorg - organic undisturbed native depo	osits CCPW - chr	omate chemical production w

Boring ID: FS12

Project			2/11/2014 9	-00.00 ΔΜ		Drilling Method: Geoprobe Rig Type:	Coordinates (NJSPN	MAD83) x: 611900.3
				9:10:00 AM		Core Size: 3 in	Boring Total Depth:	
	By: EW		2/12/2017	0.10.00 7 WI		Project Manager: Scott Mikaelian	Depth to Water: NA	
			rest Street	- FS12			Surface Elevation:	
Donth								
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
-24 - -								FS12-24.0-24.5
-25 - -		0.0	wet	SM		SAND, some silt, (5YR 4/4) reddish browet, no odor, no staining. Soils consister	wn, non plastic, soft, nt with UNDno.	
_26 	5							FS12-26.0-26.5
28 –								FS12-28.0-28.5
-29 - -								
-30 <u>-</u> - -31		0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brov dense, moist, no odor, no staining. Soils UNDno.	wn, non plastic, consistent with	FS12-30.0-30.5
32 - - -33	5							FS12-32.0-32.5
-34 - -								FS12-34.0-34.5
35 <u> </u>		0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brown moist, no odor, no staining. Soils consist	wn, non plastic, tent with UNDno.	
-36 — - -37—	5							FS12-36.0-36.5
38 — — 39 —								FS12-38.0-38.5
- 4 0 -		0.0	moist	SM		SAND, some silt, (5YR 4/4) reddish brown oist, no odor, no staining. Soils consist	wn, non plastic, tent with UNDno.	FS12-40.0-40.5
41— —								
42 -	2			NR	12, 41,74, 197	NO RECOVERY		
43 —								
44 -								
- ∪								
	low surface		COPR - chro	omite ore proc	essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	rfactured gas plant omate chemical production wa

Boring ID: FS12A

Page: 1 Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Drilling Method: Direct Push Coordinates (NJSPNAD83) x: 611903.3

Date Started Dr			45:00 AM		Drilling Method:	Direct Pusit				AD83) X: 611903.3
					Rig Type: Core Size: 3.0 in					AD83) y: 683699.5
Date Finished D		9/8/2016	8:55:00 AIVI			Coott Mileselies		Boring Total D		
Logged By: ES		tual Farra	at Ct Dranarti	00 DI	Project Manager:	Scott iviikaeiian		Depth to Wate		
Physical Locati	on: AC	tuai - Forres	st St Propertie	es - Ri				Surtace Eleva	tion:	1.5 ft NAVD88
Depth Range (ft bgs)	PID (ppm)	Moisture Content	USCS	Graphi Log	С	Surface Cover and	d Thicknes	SS:		Sample ID
	0.0	dry	FILL		fine to medium	GRAVEL, little fin	e to mediu	ım sand and fill	ı	FS12A-0.0-0.5
		dry	FILL		debris, (7.5YR) debris, (7.5YR)	4/3) brown, mediu	ım dense,	dry, no odor, no	· /	
-1- -		dry	I ILL		\staining. CINDERS and dry, no odor, n	ASH, (2.5Y 4/2) d	lark grayisl	n brown, loose,	_/	
-2					ary, no odor, n	o staining.				FS12A-2.0-2.5
-4		moist	FILL		fine to medium reddish brown	SAND, trace fill de , medium dense, m	ebris, (5YF noist, no oc	R 3/3) dark dor, no staining		
Notes: ogs - below surfac	e grade	COPR - chr	omite ore prod	essina r	esidue UNDno - non	organic undisturbed	I native den	osits MGP	r - manuf	actured gas plant mate chemical production was

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS12B**

732.564.3200 office telephone Page: 1 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 Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) FS12B-0.0-0.5 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, FILL dry dry, no odor, no staining. FS12B-2.0-2.5 5 FILL fine to medium SAND, trace fill debris, (5YR 3/3) dark dry reddish brown, medium dense, dry, no odor, no staining.

Notes

. 2012-09 RA PPG LOGS A.GDT - 12/7/16 23:44

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring	ID:	FS ₁	2C

Page: 1

Drilling Method: Direct Push Coordinates (NSPANDS) x: 611895 Date Final-hald Drilling: 98/2019 92:00 AM Rg Type: Coordinates (NSPANDS) x: 6818935 Date Final-hald Drilling: 98/2019 92:00 AM Core Size: 3.0 in Boring Total Depth: 5 ft Project Manager: South Misealian Depth: 5 ft Project Manager: South Misealian Depth: 6 ft Project Manager: South Misealian Depth: 6 ft Project Manager: South Misealian Depth: 6 ft May 10 ft Misealian Depth: 6 ft Mi			C					Page: 1
Date Started Drilling: 98/2016 9:15:00 AM Rig Type: Coordinates (NySPRAD93) y: 683693.5 Despte Finished Drilling: 98/2016 9:25:00 AM Core Size: 3.0 in Boring Total Depth: 5f Physical Location: Actual - Forrest St Properties - N Depth Recovery PID Michigan Core In (fifty) PID Michigan PILL Core In						rilling Company: SGS North America		
Date Finished Drilling: 898/2019 5/2500 AM Core Size: 3.0 in Project Manager: Scott Mikeelan Depth to Water: NA Physical Location: Acquire Formus St Properties Fill Surface Cover and Thickness: Sample (Inc.) Poly								
Logged By: ES Proviscal Location: Actual - Fornest St Properties - PI Proviscal Locati					Ri	g Type:		
Physical Location: Actual Forest St Properties - RI Burdace Recovery (Pt (17)) Recovery (9/8/2016	9:25:00 AM	C	ore Size: 3.0 in		
Depth (Https) PID Moisture USCS Graphic Surface Cover and Thickness: Sample (ID)						roject Manager: Scott Mikaelian		
Range (Utbgs) (Ppm) Content USCS (Log Seath Surface Cover and Thickness: (Log III) (Utbgs) (Ppm) Content USCS (Log Seath Surface Cover and Thickness: (Log III) (Utbgs) (Ppm) Content (P	Physical Loca	tion: Ac	<u>tual - Forre</u>	st St Propertie	es - RI		Surface Elevation:	10.8 ft NAVD88
dry FILL ASH, some cinders, (6Y, 5r1) gray, medium derise, dry, no odor, no staining. ASH, some cinders, (6Y, 5r1) gray, medium derise, dry, no odor, no staining. FST202.02.5 FST202.02.5 ASH, some cinders, (6Y, 5r1) gray, medium derise, dry, no odor, no staining. FST202.02.5 FST202.02.5 ASH, some cinders, (6Y, 5r1) gray, medium derise, dry, no odor, no staining.	Range Recov	ry PID (ppm)		USCS		Surface Cover and Thickr	ness:	Sample ID
- 2 - 5 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6		0.0	dry	FILL			YR 4/3) brown,	FS12C-0.0-0.5
dry Fil.L fine to medium SAND, little ash, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.			dry	FILL			m dense, dry, no	
dry FILL fine to medium SAND, little ash, (7.5YR 3/3) dark brown, medium dense, dry, no odor, no staining.	5 							FS12C-2.0-2.5
			dry	FILL			3/3) dark brown,	
Notes: bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant	Notes:							

UNDorg - organic undisturbed native deposits MM - meadow mat GGM - green grey mud

Boring ID: FS13

	Number:					Drilling Method: Geoprobe	Coordinates (NJSP	
			2/6/2014 2:0			Rig Type:		NAD83) y: 683677.4
			2/10/2014	4:00:00 PM		Core Size: 3 in	Boring Total Depth:	
	IBy: EW					Project Manager: Scott Mikaelian	Depth to Water: N/	
Physica	al Locatio	n: For	rest Street -	FS13	1		Surface Elevation:	11 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID
-1		0.0	dry to moist	FILL		fine to medium SAND, with medium grav black, non plastic, loose to hard, dry to m staining.		FS13-0.0-0.5
-2 -3 -4	5	0.0	moist	FILL		medium SAND, some fine gravel, (7.5YF non plastic, loose, moist, no odor, no stai		FS13-4.0-4.5
-5-		0.0	moist	FILL		fine to medium SAND, little silt, (7.5YR 2 brown, non plastic, hard, moist, no odor,		_
-6— - -7—		0.0	moist	FILL		SILT, some sand, (7.5YR 3/2) dark brow	n non plactic coft	FS13-6.0-6.5
-8 	4.5	3.5	muət	i ILL		to hard, moist, no odor, no staining.	., 11011 piastio, 5011	FS13-8.0-8.5
-9 - -10		0.0 moist		NR moist FILL		NO RECOVERY		-
-11 -12		0.0	moist	FILL		SILT, some sand, (7.5YR 3/2) dark brow to hard, moist, no odor, no staining.	n, non plastic, soft	FS13-10.0-10.5
-12 - -13 -	5	0.0		-		5 0AMP 11 1 (F) (F) (10)		FS13-12.0-12.5
-14 - -15		0.0	wet	FILL		medium SAND, with gravel, (5YR 4/3) re plastic, soft, wet, no odor, no staining.	ddish brown, non	FS13-14.0-14.5
-16 		0.0	wet	SM		fine SAND, and silt, (5YR 4/3) reddish br soft, wet, no odor, no staining. Soils cons	rown, non plastic, sistent with UNDno.	FS13-16.0-16.5
-17	5	0.0	wet	GM		fine to medium gravelly SAND, (5YR 4/3 non plastic, dense, wet, no odor, no stair consistent with UNDno.		_
-18 -19		0.0	moist to wet	SM		medium SAND, trace fine gravel, (5YR 4 non plastic, dense, moist to wet, no odor, consistent with UNDno.		FS13-18.0-18.5
-20 - -21		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4 non plastic, dense, slightly moist, no odol consistent with UNDno.		FS13-20.0-20.5
	ow surface		COPR - chro		essing re	esidue UNDno - non-organic undisturbed native c UNDorg - organic undisturbed native depo		ufactured gas plant romate chemical production wa

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:32

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FS13**

		2000	· · · · ·			D !!! 0 000 N !! A :		Page: 2
	t Name: F					Drilling Company: SGS North America	Coordinates (NICDA	IAD92\ w. 611027.9
	t Number: tarted Dril			00:00 DM		Drilling Method: Geoprobe Rig Type:	Coordinates (NJSPN Coordinates (NJSPN	
Date 5	iniched Dri	illina:	2/10/2014 2. 2/10/2017	4:00:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: EW		2/10/201-	F 4.00.00 1 W		Project Manager: Scott Mikaelian	Depth to Water: NA	
	al Locatio		rest Street	- FS13		Troject Manageri Good Minagina	Surface Elevation:	
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture Content	USCS	Graph Log			Sample ID
. ,					10.34 (CIA	**		FS13-22.0-22.5
 - 23 - - 24 -	5							
 25		0.0						FS13-24.0-24.5
		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4/ non plastic, slightly moist, no odor, no sta consistent with UNDno.	3) reddish brown, ining. Soils	
—26 — – —27 — –	. 5					consistent with UNDno.		FS13-26.0-26.5
—28 — — —29 —								FS13-28.0-28.5
30 31 		0.0	slightly moist	SM		medium SAND, trace fine gravel, (5YR 4/ non plastic, dense, slightly moist, no odor consistent with UNDno.	3) reddish brown, , no staining. Soils	FS13-30.0-30.5
—32— — — —33— — —	5							FS13-32.0-32.5
—34— — – —35— — –		0.0		SM		Soils consistent with UNDno.		FS13-34.0-34.5
—36 — — — —37 — — —	. 5							FS13-36.0-36.5
- 38 - - 39 - 								FS13-38.0-38.5
40						· •		
MM - me	low surface eadow mat No COPR/GGM		COPR - chr GGM - gree	omite ore proc n grey mud	essing i	residue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - manu sits CCPW - chr	offactured gas plant omate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS18

	tarted Dril						Coordinates (NJSPNA	
			3/17/2014	12:30:00 PI			Boring Total Depth:	40 ft
	d By: EW			FC40			Depth to Water: NA	4.C.#.NIA./D00
iysic	ai Locatio	n: For	rest Street -	· F518	1	<u> </u>	Surface Elevation: 1	1.6 π NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thicknes	SS:	Sample ID
_		0.0	dry	FILL		fine to medium SAND, with medium gravel aggregate, (7.5YR 4/1) dark gray, non plast		FS18-0.0-0.5
1		0.0	dry to slight	FILL		odor, no staining. fine silty SAND, with fine to medium gravel, brown, non plastic, soft, dry to slightly mois		
2	4.5	0.0	moist	FILL		staining. COPR, with fine sand, (5YR 3/4) dark redd	ish brown, non	FS18-2.0-2.5
3		0.0	moist slightly moist	FILL		plastic, soft, slightly moist, no odor, no stair fine to medium SAND, with ash and cinders very dark gray, non plastic, loose, slightly m staining.	s, (7.5YR 3/1)	
4			slightly moist			fine SAND, trace silt with cinders, (10YR 4/brown, non plastic, loose, slightly moist, no		FS18-4.0-4.5
5				NR		NO RECOVERY		
- 6—		0.0	moist	FILL		fine SAND, and silt, (7.5YR 4/2) brown, nor loose, moist, no odor, no staining.	n plastic, soft to	5040.00.5
- 7—		29.4	moist	FILL		SILT, with cinders, trace fine sand, (7.5YR plastic, moist, no staining, MGP-like materia odors.		FS18-6.0-6.5
- 8- 	3.5	0.0	wet	FILL		medium SAND, with fine gravel, (7.5YR 5/8 non plastic, soft to loose, wet, no odor, no s		FS18-8.0-8.5
9 <u> </u>				NR		NO RECOVERY		
10-		0.0	moist	FILL		fine to medium SAND, trace fine gravel, (7.	5VP 2 5/3) verv	FS18-10.0-10.5
_ 1 			moist			dark brown, non plastic, loose, moist, no od	or, no staining.	
 2 	5	16.5	moist	FILL		fine SAND, trace fine to medium gravel, (7. non plastic, soft, moist, slight tar odor, no si		FS18-12.0-12.5
13 <u> </u>		0.0	wet	FILL		fine silty SAND, (7.5YR 4/2) brown, non pla odor, no staining.	astic, soft, wet, no	
4								FS18-14.0-14.5
5 –		0.0	moist to wet	SM		medium SAND, with fine to medium gravel, reddish brown, non plastic, loose, moist to v staining, red fine sands. Soils consistent wi	wet, no odor, no	
6 7	4		WCt			Stanning, 164 iiile Sands. Sons consistent wi	5115110.	FS18-16.0-16.5
8 -		0.0	moist to	SM		medium SAND, (5YR 4/4) reddish brown, n moist to wet, no odor, no staining, red fine s consistent with UNDno.		FS18-18.0-18.5
9			wet	NR	1 - 1 - 1 - 1 - 1	NO RECOVERY		
20		0.0	moist	SM		medium SAND, (5YR 4/4) reddish brown, n		FS18-20.0-20.5
- 21			to wet			moist to wet, no odor, no staining, red fine s consistent with UNDno.	sands. Soils	
tes: s - bel 1 - me	low surface	grade	COPR - chro	mite ore pro	cessina re	sidue UNDno - non-organic undisturbed native dep	osits MGP - manuf	actured gas plant

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS18

Project	t Name: F t Number:	60240	0739			Drilling Company: SGS North America Drilling Method: Geoprobe		NAD83) x: 611684.6
				3:50:00 AM		Rig Type:	Coordinates (NJSP)	NAD83) y: 683680.2
			3/17/2014	12:30:00 PN		Core Size: 3 in	Boring Total Depth:	
	d By: EW					Project Manager: Scott Mikaelian	Depth to Water: N	
Physic	al Locatio	n: For	rest 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 Thickr	ness:	Sample ID
 23 - 24	5							FS18-22.0-22.5
-25 - -26 - -27 - -27 - -28 -	4	0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown moist to wet, no odor, no staining, red fin consistent with UNDno.	, non plastic, loose, e sands. Soils	F\$18-26.0-26.5
29	-			NR		NO RECOVERY		
-30 -31 -32 -33	4.5	0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown moist to wet, no odor, no staining, red fin consistent with UNDno.	, non plastic, loose, e sands. Soils	FS18-30.0-30.5
-34 35				NR		NO RECOVERY		FS18-34.0-34.5
-36 - -37 -		0.0	moist to wet	SM		medium SAND, (5YR 4/4) reddish brown moist to wet, no odor, no staining, red fin consistent with UNDno.		FS18-36.0-36.5
-38 - -39 -	4			NR		NO RECOVERY		FS18-38.0-38.5
40								
Notes: ogs - bel MM - me	eadow mat	grade	COPR - chr GGM - gree		essing re	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - man sits CCPW - ch	ufactured gas plant promate chemical production wa

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS19

	Number:					Drilling Method: Geoprobe		NAD83) x: 611755.7
				9:20:00 AM		Rig Type:	Coordinates (NJSPN	
			9/25/2013	3 10:45:00 AM		Core Size: 3 in	Boring Total Depth:	
	By: M. I					Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: For	rest Street	- FS19		1	Surface Elevation:	10.2 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	ess:	Sample ID
		0.0		CONCRETE	P	CONCRETE, trace COPR (see note).		FS-CC19-0.0-0.5
 1 		0.0	dry	FILL		medium SAND, with cinders, little coal, t (see note), (5YR 3/3) dark reddish brow odor, no staining.	trace COPR n, loose, dry, no	FS-B19-0.5-1.0 FS-B19-1.5-2.0
2 3	4	0.0	slightly moist	FILL		fine to medium silty SAND, with cinders, of black, loose to dense, slightly moist, no or		-
 -4 		0.0	moist	FILL NR		fine silty SAND, little coal, trace fine grave yellowish brown, dense to soft, moist, no NO RECOVERY		FS-B19-3.5-4.0
5 6 7	-	0.0	moist to wet	FILL		SILT, some fine sand, little coarse gravel, brown, soft, moist to wet, no odor, no stai	(5YR 4/3) reddish ning.	FS-B19-5.5-6.0
 8 9	5	0.0	dry to slight moist	FILL		fine silty SAND, little coarse gravel, trace (10YR 5/6) yellowish brown, dense to sof moist, no odor, no staining.	coal, cinders, t, dry to slightly	FS-B19-7.5-8.0
10	5	0.0	dry to slight moist	FILL		fine silty SAND, little coarse gravel, trace (10YR 5/6) yellowish brown, dense to sof moist, no odor, no staining.	coal, cinders, t, dry to slightly	FS-B19-11.5-12.0
12					XXX			FS-B19-12.8-13.3
13 14 15		0.0	wet	SP-SC		UNDno fine to medium SAND, some fine (2.5YR 4/4) reddish brown, loose, wet, no rounded poorly graded. Soils consistent w	odor, no staining,	FS-B19-13.3-13.8
						NOTE: Verification test pit FSTP4 w advanced to 2' bgs at this loc and no COPR was observed	cation	
	low surface eadow mat			romite ore proce on grey mud	essing re	sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos		ufactured gas plant romate chemical production wa

A E COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring	ID:	FS20
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Page: 1

Droise	h Nomer - F		ofield Ave			Drilling Company CCC North America		Page: 1
	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Geoprobe	Coordinates (N ISD	NAD83) x: 611780.9
				10:55:00 AM		Rig Type:	-	IAD83) y: 683719.9
				3 1:05:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: M. I		9/23/2013	3 1.03.00 FW		Project Manager: Scott Mikaelian	Depth to Water: N/	
	al Locatio		roct Stroot	ESSU		Project Manager. Scott Mikacilan	Surface Elevation:	
	ai Lucatio	11. 101	iesi Sireei	- 1-320		1	Surface Elevation.	10.4 IT NAVDOS
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thickr	ness:	Sample ID
		0.0		CONCRETE	P & 4	CONCRETE		
 1		0.0	slightly moist	FILL		medium to coarse SAND, with medium to cinders, some coal, (7.5YR 2.5/3) very do slightly moist, no odor, no staining.		FS-B20-0.5-1.0
2 2 3	5	0.0	moist	FILL		medium silty SAND, with medium to coar cinders, coal, trace wood fragments, (7.5 loose to dense, moist, no odor, no stainin	YR 2.5/1) black,	FS-B20-1.5-2.0
 4 5								FS-B20-3.5-4.0
5		0.0	moist	FILL	\bowtie	medium silty SAND, with medium to coar		
6 - 6 7		0.0	moist	FILL		cinders, coal, (7.5YR 2.5/1) black, loose odor, no staining. fine to medium silty SAND, some fine to (7.5YR 4/2) brown, loose to dense, moist staining.	medium gravel,	FS-B20-5.5-6.0
 8 9	5	0.0	slightly moist	FILL		SILT, with fine sand, little roots, trace wo (7.5YR 2.5/2) very dark brown, soft to sti odor, no staining.		FS-B20-7.5-8.0
					\bowtie			FS-B20-9.5-10.0
10 11 12 13	. 5	0.0	slightly moist	SM		UNDno fine SAND, little silt, (10YR 5/6) dense, slightly moist, no odor, no staining with UNDno.	g. Soils consistent	FS-B20-10.0-10.5
14 15		0.0	dry	SP		UNDno fine to coarse SAND, with fine to trace silt, (2.5YR 4/4) reddish brown, loos odor, no staining. Soils consistent with U	se to hard, dry, no	
√Й - me	low surface eadow mat			romite ore proce on grey mud	essing re	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo		ufactured gas plant romate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:33

Boring ID: FS21

	arted Drilli nished Dri							Coordinates (NJSPNAD83 Boring Total Depth: 40 ft	
gged	By: EW						ect Manager: Scott Mikaelian	Depth to Water: NA	
ysica	al Location	: Forr	est Street -	FS21				Surface Elevation: 10.41	ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thic	kness:	Sample ID
		0.0	dry	3	FILL		ASH and CINDERS,(5YR 4/2) dark red	ddish gray,dry,no /	FS21-0.0-0.5 FS21-0.0-0.5X
_		0.0	dry	3	FILL	- XXXXX	\\odor,no staining.		F321-0.0-0.5X
1		0.0	dry dry	3	FILL FILL		fine to medium SAND,(7.5YR 3/2) dark odor,no staining.	k brown,dry,no	
-		0.0	۵.,				ASH and CINDERS, (5YR 4/2) dark re	ddish gray, dry, no	
2 —	_						\odor, no staining. fine to medium SAND,(7.5YR 3/2)dark	hrough drugs	FS21-2.0-2.5
_	5	0.0	wet	3	FILL	\bowtie	odor,no staining.	. brown, dry, no	
3 —		0.0	wet		I ILL		medium SAND,some silt,(7.5YR 4/1) d odor,no staining.	lark gray,wet,no	FS21-39.5-40.0
4								<u> </u>	FS21-4.0-4.5
_				3	FILL		NO RECOVERY.		
5 —		0.0	wet	3	FILL		medium SAND,some silt,(7.5YR 4/1)da	ark gray,wet,no	
							odor,no staining.		
6 —									FS21-6.0-6.5
-									
7 —	_								
_	5								
8 —	}	0.0	wet	3	FILL	\bowtie	fine SAND,some silt,(5YR 4/2)dark red	Idish gray wet no	FS21-8.0-8.5
-	}	0.0		9	SM	*****	odor,no staining.		
9 —		0.0	wet	9	SIVI		UNDno fine SAND, little silt, (5YR 4/3) r		
_							odor,no staining.Soils consistent with L	חטוט.	
10		0.0			014		LINDS CO. CAND 1991 19 (EVE. 1997)	and distribution	FS21-10.0-10.5
_		0.0	wet	9	SM		UNDno fine SAND, little silt, (5YR 4/3) no odor, no staining. Soils consistent w		F321-10.0-10.5
11							caci, no diaming. cond condictent w	011010.	
12									500 45 5 15
· -	5	0.0	wet	9	SM		UNDno medium to coarse SAND, with a 4/3) reddish brown, wet, no odor, no stail	medium gravel,(5YR	FS21-12.0-12.5
13							4/3) reddish brown,wet,no odor,no stail with UNDno.	ning. Sons consistent	
10									
–									
14									FS21-14.0-14.5
15—		0.0	wet	9	SM		UNDno medium to coarse SAND, with I		
-							4/3) reddish brown,wet,no odor,no stai	ning. Soils consistent	
16—							with UNDno.		FS21-16.0-16.5
-									
17—									
-	3.5								
18—									FS21-18.0-18.5
_				9	SM		NO RECOVERY.		
19				9	JIVI		NO NEOVENT.		
-									
20		0.0	,		CN 4		LINDro modium to come CAND 111	madium are at (E)(D	FS21-20.0-20.5
_		0.0	wet	9	SM		UNDno medium to coarse SAND, with a 4/3) reddish brown, wet, no odor, no stail		. 321 20.0-20.0
21							with UNDno.		
_		0.0	wet	9	SM		UNDno medium to coarse SAND, (5YF		
							wet, no odor, no staining. Soils consist	ent with UNDNO.	
es:	ou ourfoos	rode C	CODD ab	mita a-	o proces	na resid	LINDno non organic undicturbed notice de-	nonito MCD manufactura	od god plant
	ow surface g adow mat		COPR - chro GGM - greer			ng residue	 UNDno - non-organic undisturbed native deposi UNDorg - organic undisturbed native deposi 		ed gas plant chemical production v

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

Boring ID: FS21

_	Project Name: PPG Garfield Ave Drilling Company: SGS North America												
	Number:			00.00				ng Method: Geoprobe	Coordinates (NJSPN/				
	arted Drill							ype:	Coordinates (NJSPNA				
	nished Dri	iiing:	6/4/2015 4	#:00:0C	PIVI			Size: 3 in	Boring Total Depth:	40 π			
	I By: EW al Location	. Forr	oot Stroot	EC21		<u> </u>	roje	ct Manager: Scott Mikaelian	Depth to Water: NA Surface Elevation: 1	0.4 ft NIA\/D88			
	LUCALIUI	i. 1 OH	esi Sireei	-1321					Surface Elevation.	0.4 IT NAVD88			
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Grap Lo		Surface Cover and Th	ickness:	Sample ID			
 23 24	4.5			9	SM			NO RECOVERY.		FS21-22.0-22.5			
25		0.0	wet	9	SM			UNDno fine SAND, with medium graver brown, wet, no odor, no staining. Soils	/el,(5YR 4/3) reddish				
26 27	5							UNDno.					
28 29 										FS21-28.0-28.5			
30 31 		0.0	wet	9	SM			UNDno fine SAND,with medium gravers brown,wet,no odor,no staining. Soils UNDno.	ne SAND,with medium gravel, (5YR 4/3) reddish t,no odor,no staining. Soils consistent with				
32 33 34	5									FS21-34.0-34.5			
 35 36		0.0	wet	9	SM			UNDno fine SAND, with medium grabrown, wet, no odor, no staining. Soi UNDno.	vel, (5YR 4/3) reddish Is consistent with				
_	5							G. G. Id.		FS21-36.0-36.5			
38 39 40										FS21-38.0-38.5			
40													
Notes: bgs - bel MM - me	ow surface o	grade (COPR - chro GGM - greei	omite or	re processi nud	ng res	sidue	UNDno - non-organic undisturbed native of UNDorg - organic undisturbed native depo	deposits MGP - manufi osits CCPW - chro	actured gas plant mate chemical production waste			

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS22

ate St		ling: (6/1/2015 9:2				oordinates (NJSPNAD8	33) y: 683703.2
ate Fi	inished Dr	illing:	6/3/2015 1	:40:00 PM			oring Total Depth: 40	ft
	d By: EW						epth to Water: NA	
nysic	al Locatio	n: For	rest Street -	FS22		Si	urface Elevation: 10.3	8 ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickness	:	Sample ID
_		0.0	dry	FILL		fine to medium SAND,some medium gravel,(brown,dry,no odor,no staining.	7.5YR 3/2) dark	FS22-0.0-0.5
1		0.0	dry	FILL		fine to medium SAND,trace silt,trace fine gra 2.5/3) very dark brown,dry,no odor,no stainin		
·2— —	3.5	0.0	dry	FILL		fine to medium SAND, some ash and cinders dark brown,dry,no odor,no staining.	s,(7.5YR 3/2)	FS22-2.0-2.5
3		0.0	wet	NR		NO RECOVERY.		F000 0 0 0 F
_		0.0	slightly	FILL	\longrightarrow	fine SAND, with silt, (7.5YR 3/1) very dark gra	y,slightly	FS22-3.0-3.5
4	-	0.0	moist	NR		moist,no odor,no staining. NO RECOVERY.		
5—		0.0	dry	FILL		fine silty SAND,(7.5YR 4/1) dark gray,dry,no	odor,no	FS22-5.0-5.5
6-]	0.0	dry	FILL		staining. fine SAND,little silt, (7.5YR 3/2) dark brown,c	dry.no odor no	
0]	0.0	wet	FILL		staining.	/	FS22-6.0-6.5
7— - 8—	5					fine SAND,(7.5YR 4/1) dark gray,wet,no odol	r,no staining.	FS22-8.0-8.5
9— —		0.0	moist	SM		UNDno fine SAND, (5YR 4/3) reddish brown moist,no odor,no staining.Soils consistent wit		1 022-0.0-0.3
10 <u> </u>								FS22-10.0-10.5
2 - 3 - 4	4.5	0.0	wet	SM		medium SAND, with medium to coarse gravel reddish brown, wet, no odor, no staining. Soils of UNDno.	J(5YR 4/3) consistent with	FS22-14.0-14.5
_	1 1	0.0		NR	1. ** 1. ** 1. *	NO RECOVERY.		
15 <u> </u>		0.0	wet	SM		medium SAND, with medium to coarse gravel reddish brown, wet, no odor, no staining. Soils of	, (5YR 4/3) consistent with	
16 — 17 — - 18 —	4					UNDno.		FS22-16.0-16.5 FS22-18.0-18.5
_ 19 		0.0		NR		NO RECOVERY.		. 322 10.0-10.0
_		J.U		INIX		NO NEGOVERT.		
20— - 21— -		0.0	wet	SM		medium SAND,with medium to coarse gravel reddish brown,wet,no odor,no staining. Soils UNDno.		FS22-20.0-20.5
	low surface		COPR - chro		cessing re	sidue UNDno - non-organic undisturbed native depos UNDorg - organic undisturbed native deposits		ured gas plant te chemical production v

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FS22

Date Started Drilling: 64/2015 14:000 PM	Project Name:					Drilling Company: SGS North America		Page:
Deate First highest politiling: 63/2015 14:000 PM						Drilling Method: Geoprobe		
Logged Privaled Locations Forces Street FS22 Surface								
Physical Location: Forces Street - FS22 Surface Elevation: 0.3 ft NAVDB8			6/3/2015	1:40:00 PM				
Depth (trity) PID Moisture (ppm) Moi	Logged By: EW					Project Manager: Scott Mikaelian		
Surface Cover and Thickness:	Physical Location	on: Fo	rrest Street	- FS22	1		Surface Elevation:	10.3 ft NAVD88
F822349345 F822369365 F822369565 F822369565 F822369565 F822369565 F822369565 F82				USCS		Surface Cover and Thickr	ness:	ID
Notes: Dos - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant	(ft bgs) (int) 523	0.0	wet	SM	Log	medium SAND,(5YR 4/3) reddish brown, staining. Soils consistent with UNDno.	wet,no odor,no	FS22-24.0-24.5 FS22-26.0-26.5 FS22-28.0-28.5 FS22-30.0-30.5
bas - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant	0.5 - 38					NO RECOVERY.		
VIM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits CCPW - chromate chemical production w	ogs - below surface MM - meadow mat	grade	COPR - chr GGM - gree	omite ore proc n grey mud	essing re	sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - man sits CCPW - ch	ufactured gas plant romate chemical production wa

Boring ID: FS24

Page: 1

Project Name:PPG Garfield AveDrilling Company:SGS North AmericaProject Number:60240739Drilling Method:GeoprobeCoordinates (NJSPNAD83) x:611929.Date Started Drilling:6/5/2015 2:30:00 PMRig Type:Coordinates (NJSPNAD83) y:683681.Date Finished Drilling:6/5/2015 3:30:00 AMCore Size: 3 inBoring Total Depth:5 ftLogged By:EWProject Manager:Scott MikaelianDepth to Water:NAPhysical Location:Forrest Street - FS24Frage (ft/ft/ft)Forrest Street - FS24Surface Elevation:11.1 ft NAVD88Depth Range (ft bgs)Recovery (ft/ft)PID Moisture (ppm)Moisture (content)USCSSurface Cover and Thickness:Sample (ID Moisture (ppm)- 1 -	7
Date Started Drilling: 6/5/2015 2:30:00 PM Date Finished Drilling: 6/5/2015 3:30:00 AM Logged By: EW Project Manager: Scott Mikaelian Depth to Water: NA Physical Location: Forest Street - FS24 Depth Range (ft bgs) PID (ppm) Moisture Content USCS Graphic Log Surface Cover and Thickness: Sample (ft/ft) 0.0 dry ASPHALT fine to medium SAND, some coal, some slag and concrete, (7.5YR 3/2) dark brown, dry, no odor, no staining.	7
Date Finished Drilling: 6/5/2015 3:30:00 AM	
Project Manager: Scott Mikaelian Depth to Water: NA	.
Project Manager: Scott Mikaelian Depth to Water: NA	9
Physical Location: Forrest Street - FS24 Surface Elevation: 11.1 ft NAVD88	e
Depth Range (ft bgs) Recovery (ft/ft) Recovery (ft/ft/ft)	•
0.0 FILL STONE FILL MATERIAL. 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.	
O.0 dry ASPHALT O.0 dry FILL O.	
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.	0.5
_	2.5
- 3 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 (10VR 5/4) vellowish FS24-4.0-4	1.5
0.0 dry FILL brown,dry,no odor,no staining. FS24-4.5-5 fine SAND,with coal and ash,(7.5YR 2.5/1) black,dry,no	D.U
Notes:	
ogs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant UNDorg - organic undisturbed native deposits CCPW - chromate chemical productions of the company of the	ıction waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:44

Boring	ID:	FSI1
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Page: 1

Project Name: PPG Garfield Ave Project Name: So 2040739										Page: 1
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: For est Street - FSI1 Depth Range (ft bgs) Recovery (ft/ft)								merica_		
Date Finished Drilling: 4/8/2014 10:45:00 AM							Geoprobe			
Logged By: EW Project Manager: Scott Mikaelian Depth to Water: NA Physical Location: Forrest Street - FSI1 Depth Range (ft/ft)										
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 1.5 0.0 saturated CONCRETE FSI1-CT Dense GRAVEL, with sand, (7.5YR 4/1) dark gray, moist no FSI1-CB			4/8/2014	10:45:00 AM	Co	ore Size: 3 in				
Depth Range (ft/ft)					Pr	oject Manager:	Scott Mikaeliar	1		
Range ft bgs)	Physical Loca	ion: Fo	rrest Street	- FSI1					Surface Elevation:	3.6 ft NAVD88
1.5 0.0 moist FILL Dense GRAVEL, with sand, (7.5YR 4/1) dark gray, moist no	Range Recove	ry PID (ppm)		USCS	Graphic Log		Surface Cover	and Thickn	ness:	Sample ID
1.5 0.0 moist FILL Dense GRAVEL, with sand, (7.5YR 4/1) dark gray, moist no		0.0	caturated	CONCRETE	P N 4 P	CONCRETE				FSI1-CT
	. 15				XXXXX			7 F) (D 4 (4)	1.1	
Substituting (Statistical Control of the Control of	-1-	0.0	moist	FILL		Dense GRAV	/EL, with sand, (/	7.5YR 4/1)	dark gray, moist no	5014.4.0.4.5
	·					ouoi no stain	iiig			FSI1-1.0-1.5
Notes: By s - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MGP - manufactured gas plant UNDnorg - organic undisturbed native deposits CCPW - chromate chemical production waste		ce grade	COPR - chr	omite ore proc	essing resid	due UNDno-no	n-organic undish	bed native d	eposits MGP - manu	ufactured gas plant

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

Boring II): F	FSI	1A
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Page: 1

											Page: 1
	t Name: _F						SGS North America				
	t Number:				D	rilling Method: G	eoprobe	Coordin	ates (NJSPN	IAD83) x: 611878	3.2
Date S	tarted Dril	ling:	6/6/2015 8	:30:00 AM	R	ig Type:				AD83) y: 683636	
				11:20:00 AM	С	ore Size: 2 in			Γotal Depth:		
	d By: EW				P	roject Manager:	Scott Mikaelian		Water: NA		
	al Locatio		rest Street	- FSI1A		Surface Elevation:					
		0.	1001 011001	1 01.77				Guilago		0.11010000	
Depth Range (ft bgs)	(ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Ş	Surface Cover and Thi	ckness:		Sampl ID	e
		0.0		CONCRETE	P & 4 P	CONCRETE.				FSI1A-C	
-	-	0.0	1	FILL	$\otimes \otimes \otimes$	GRAVEL.				FSI1A-C	В
—1— – –	2	0.0	wet	FILL			AND,with fine to medion, no staining.	um gravel,(7.5	5YR 6/1)	FSI1A-0.8	-1.3
Notes:											
bas - be	elow surface eadow mat	grade	COPR - chi GGM - gree	omite ore proc en grey mud	essing res	idue UNDno - non-o UNDorg - orgar	rganic undisturbed nativ iic undisturbed native de	e deposits	MGP - manu CCPW - chro	factured gas plant omate chemical prod	uction waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

Boring I	D: FSI1B
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Page: 1

D	4 1	200.0-	C' - I - I - A				000 North Arrestin		Page: 1
	t Name: F						SGS North America	0 (1100)	IA DOO) 044007.0
	t Number:					rilling Method:		Coordinates (NJSPN	
	tarted Dril				R	tig Type:		Coordinates (NJSPN	
			4/9/2014	1:10:00 PM		ore Size: 4 in		Boring Total Depth:	
Logge	d By: EW		:	=0::=	P	roject Manager:	Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: For	rest Street	- FSI1B				Surface Elevation:	3.4 ft NAVD88
Depth Range (ft bgs)	(ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and Thickn	ess:	Sample ID
	0.45	0.0		CONCRETE	P 1 P	CONCRETE			FSI1B-CT
	0.40			CONTONETE	29.40.000	CONCILIE			FSI1B-CB
	0.45	0.0		CONCRETE		CONCRETE			FSIIB-CB
Notes: bgs - be	elow surface	grade	COPR - chr	omite ore proce	essing res	idue UNDno - non-	organic undisturbed native de anic undisturbed native de	eposits MGP - manu	ufactured gas plant
MM - me		-	GGM - gree	en grey mud		UNDorg - org	anic undisturbed native depos	Sits CCPW - chr	omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

Boring ID: F	FSI1	C
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Page: 1

								1	Page: 1
	t Name: _F						SGS North America		
	t Number:					Orilling Method:		Coordinates (NJSP)	NAD83) x: 611876.6
Date S	tarted Dril	ling: 4	4/9/2014 1	:14:00 PM	F	Rig Type:		Coordinates (NJSPN	AD83) y: 683652.6
				1:25:00 PM		Core Size: 4 in		Boring Total Depth:	
	d By: EW				F	Project Manager:	Scott Mikaelian	Depth to Water: NA	
	al Locatio		rest Street	- FSI1C		rojoot managon	Cook Windonan	Surface Elevation:	
		1	1000 0000	1 0110				Guildoo Elovationii	0.01(14)(1200
Depth Range (ft bgs)	(ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log		Surface Cover and Thick	ness:	Sample ID
	0.4	0.0		CONCRETE	PAR	CONCRETE			FSI1C-CT
	0.7			CONCRETE		OONONLIL			FSI1C-CB
		<u></u>	<u></u>		<u></u> _				
Notes:									
bgs - be	low surface	grade	COPR - chr	romite ore proc	essing re	sidue UNDno - non	organic undisturbed native oganic undisturbed native depo	deposits MGP - manu	ufactured gas plant
MM - me	eadow mat		GGM - gree	en grey mud		UNDorg - org	ganic undisturbed native depo	osits CCPW - chr	omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

Boring ID: FSI2

Page: 1

			terepriorie						Page: 1
	t Name: _					Drilling Company: SGS North America			
	t Number:					Drilling Method:			IAD83) x: 611866.5
Date S	tarted Dril	ling: _	4/9/2014 8	:45:00 AM		Rig Type:	Coordinat	tes (NJSPN	AD83) y: 683626.3
Date F	inished D	rilling:	4/9/2014	9:20:00 AM		Core Size: 4 in	Boring To	tal Depth:	1 ft
Logge	d By: EW	1				Project Manager: Scott Mikaelian	Depth to \	Nater: NA	
Physic	al Locatio	n: For	rest Street	;- FSI2					3.4 ft NAVD88
Depth Range (ft bgs)	Recovery		Moisture Content	USCS	Graphi Log	c Surface Cover and Th	nickness:		Sample ID
 1	1	1.1		CONCRETE		CONCRETE, green water identified v Unable to continue coring due to exce than 1.0' bgs.	within boring loca ess concrete grea	ation. ater	FSI2-CT FSI2-CM
Notes: bg - be	elow surface	grade	COPR - ch	romite ore proce	essing re	esidue UNDno - non-organic undisturbed nati	ive deposits	MGP - manu	factured gas plant
iviivi - M	ะสนบพ เกลโ		יאטט - gree	en grey mua		יסימאוט מוטטוערט organic undisturbed native c	ισμυδιιδ	OOFAA - CUL	omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FSI3**

	Name: F					Orilling Company: SGS North America		
	Number:					Orilling Method: Geoprobe		NAD83) x: 611840.6
				8:30:00 AM		Rig Type:		IAD83) y: 683601.3
			4/12/2014	4 11:00:00 AM		Core Size: 3 in	Boring Total Depth:	
	I By: EW			=0/-	F	Project Manager: Scott Mikaelian	Depth to Water: NA	
Physica	a Locatio	n : For	rest 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 Thic	kness:	Sample ID
		0.0		CONCRETE	P & 4 P	CONCRETE, no staining.		
-		0.0	dry	FILL		fine to medium SAND, with ash and cir	nders, (10YR 4/2)	FSI3-0.5-1.0
-1-			to		XXX	dark grayish brown, non plastic, soft to	loose, dry to slightly	FSI3-1.0-1.5
- +	_		slight moist		XXXX	moist, no odor, no staining, little silt and	d tine to medium	FSI3-1.5-2.0
-2-	4	0.0		FILL	XXX	gravel. fine to medium SAND, trace silt, some	cinders (7.5VD 4/2)	+
- 4		0.0	dry to	FILL	\ggg	brown, non plastic, soft, dry to slightly i		
−3 −			slight		>>>>	staining.		
- 4		0.0	moist moist	FILL		medium SAND, with coal and cinders,		FSI3-3.5-4.0
-4-		0.0	dry	FILL FILL	XXX	non plastic, soft to loose, moist, no odd fine to medium SAND, trace silt, some	cinders (7 5YR 4/2)	F313-3.5-4.U
_		0.0	to	FILL	XXX	brown, non plastic, soft, dry to slightly i	moist, no odor, no]
_ 7		0.0	slight	FILL		\\\staining.	///	
-5-		0.0	moist slightly		XXX	fine to medium SAND, trace silt, some		
			moist		XXX	\black, non plastic, soft, slightly moist, r medium SAND, some silt, trace cerami		FSI3-5.5-6.0
6	4		moist		XXXX	dark gray, non plastic, soft, moist, no o		
- 4			moist		XXXX	medium SAND, and silt, (7.5YR 5/1) gr	ray, non plastic, soft,	
7			to		XXXX	moist to wet, no odor, no staining.		
_ ′			wet					
]		0.0	moist	SM		medium SAND, little silt, (5YR 5/2) red		FSI3-7.5-8.0
-8-		0.0	to wet	SM		soft, moist to wet, no odor, no staining. UNDno.	Soils consistent with	FSI3-8.0-8.5
			wet			medium SAND, little fine gravel, (5YR	4/3) reddish brown	
—9—						non plastic, soft to loose, moist, no odd		
- 4						consistent with UNDno.	-	
 10	4							
_								
1								
_11								
- 1								
-12-					· · · · · · ·	I		
Notes:	ow surface	arada	CODD abo	omite ore press	seeina ra	sidua LINDno non organia undiaturhad nation	a denocite MCD	ufactured are plant
	ow surface adow mat		GGM - gree	romite ore proce en grey mud	ssing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de	posits CCPW - chi	ufactured gas plant romate chemical production wa
		_			_			
Comments:	No COPR/GGM	identified.						

Boring	ID: FSI4
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Page: 1

Drilling Method: Geoprobe Coordinates (NJSPANDS3) x: 6118203 Drilling Method: Geoprobe Coordinates (NJSPANDS3) x: 6118203 Drilling Method: Geoprobe Coordinates (NJSPANDS3) x: 6518205 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring Total Depth: 5.51 Date Finished Drilling: 4122014 83.00.0 AM Core Sizes Boring T		t Name: F				Di	rilling Company	: SGS North Americ	ca		rage. 1
Date Finished Drilling: 41/20014 8/3000 AM					0.00.00 AM			Geoprobe			
Cognet Dev Project Manager: Scott Mikaelian Depth to Water: NA Project Manager: Scott Mikaelian Depth to Water: NA Project Manager: Scott Mikaelian Surface Elevation: 11.2 ft NAVDB8 Surface Cover and Thickness: Surface Elevation: 12.2 ft NAVDB8 Surface Cover and Thickness: Surface Cover											
Physical Location: Forest Sirce - FSH Graph Range (Tops) Graph Range (Tops) Graph Range (Tops) Graph Range (Tops) Graph Covery (ptn) Graph C			iiiiig.	4/ 12/2014	+ 0.30.00 AIVI			Scott Mikaelian			
Depth (High) PiD Moisture (High) PiD Moisture (High) Content USCS Graphic Log Surface Cover and Thickness: Sample (High) PiD	Physic	al Locatio	n: For	rest Street	- FSI4	,	ojoot managon	- Cook Millaonan		Surface Elevation:	11.2 ft NAVD88
Note: No	_	Recovery	PID	Moisture		Graphic Log		Surface Cover and	Thickne		Sample
Note: No		0.5	0.0		CONCRETE		CONCRETE.	no staining.			
Notes: Notes:	├ , -	0.0				.7.4			e floor.		1
Note: Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant	<u> </u>	1					·				
Note: Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant											
Note: Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant Does nelw surface grade: COPR - chromite ore processing residue. UNDno - ponorganic undisturbed native deposits. MGP - manufactured gas plant	L ² _										
NAME: Dos- selew surface grade: COPR - chromite ore processing residue. UNDno - non-organic undisturbed native denosits. MGP - manufactured gas glant.	3	0									
Notes: Loss below surface grade. COPR - chronite are processing residue. UNDno - non-organic undisturbed native deposits. MAP - manufactured ass plant	L										
Notes: Loss below surface grade. COPR - chronite are processing residue. UNDno - non-organic undisturbed native deposits. MAP - manufactured ass plant	<u> </u>	1									
Notes: Loss below surface grade. COPR - chronite are processing residue. UNDno - non-organic undisturbed native deposits. MAP - manufactured ass plant	L –										
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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		low surface	arade	COPR - chr	omite ore proc	esinn reci	due UNDno-nor	n-organic undisturbed n	native de	nosits MGP - man	ifactured das plant
	MM - me	eadow mat	J. 440	GGM - gree	en grey mud	20.11g 1001	UNDorg - org	ganic undisturbed nativ	e depos	its CCPW - chi	romate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/1/16 00:12

Boring ID: FSI4A

Page: 1

			telepriorie				1	Page: 1
	t Name: F					Drilling Company: SGS		
	t Number:					Drilling Method: Geoprobe	Coordinates (NJSPN	
				10:00:00 AM		Rig Type:	Coordinates (NJSPN	
		illing:	6/13/2015	5 11:30:00 AM		Core Size: 2 in	Boring Total Depth:	
Logge	а ву: al Locatio	Г		ECI4A		Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	ai Locatio	n: For	rest Street	- FSI4A	i	1	Surface Elevation:	10.5 II NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
		0.0		CONCRETE	P N. A	CONCRETE, no staining.		
 1 	3	0.0	dry	FILL		medium SAND,some coal and ash,(7.5Y dry,no odor,no staining.	R 3/2) dark brown,	FSI4A-0.5-1.0
2- - 		0.0	moist	FILL		medium SAND,(7.5YR 4/2) brown,slightl staining.	y moist,no odor,no	FSI4A-2.0-2.5
3- 				NR	~~~	NO RECOVERY.		
-4-		0.0	wet	FILL		medium SAND,(5YR 4/3) reddish brown.	.wet.no odor.no	FSI4A-4.0-4.5
	1	0.0	wet	FILL		staining.		
-5-	1	0.0	wet	FILL		medium SAND,(10YR 2/1) black,wet,no	odor,no staining.	
 6	3	0.0				fine SAND,little silt,trace coal fragments, gravel,(10YR 4/2) dark grayish brown,we staining.		5044.00.05
- – —7—						ŭ		FSI4A-6.0-6.5
· –	_			NR		NO RECOVERY.		
-0-			moist	SM		UNDno fine to medium SAND,trace silt,(FSI4A-8.0-8.5
_	1					brown,moist,no odor,no staining. Soils co. UNDno.	onsistent with	FSI4A-8.5-9.0
9 10 11 	4		wet	SM		UNDno medium SAND, with fine to medi 4/3) reddish brown, wet, no odor, no stai consistent with UNDno.	ium gravel, (5YR ning. Soils	
Notes: ogs - be VIM - me	elow surface eadow mat			romite ore proce en grey mud	essing re	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manu osits CCPW - chr	ıfactured gas plant omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/20/16 12:34

Boring ID: FSI5

Page: 1

Project Name: PPG Garfield Ave Project Name: G0240739 Date Started Drilling: 49/2014 9.18.00 AM Rig Type: Coordinates (NJSPNAD83) x: 611855.2 Date Started Drilling: 49/2014 112.000 AM Rig Type: Core Size: 4 in Borring Total Depth: 1.5 ft Logaed Byr. EW Project Manager: Scott Mikaelian Physical Location: Forrest Street - FSI5 Depth Recovery PID (spm) Content (ft/bgs) (111) 1 1.1 CONCRETE 1 0.5 0.0 dry Fill. CONCRETE, no staining. CONCRETE, with medium gravel, (7.5YR 4/1) dark Gray, dry, no odor, no staining.				telephone						Page: 1
Date Started Drilling: 4/9/2014 9:18:00 AM Rig Type: Coordinates (NJSPNAD83) y: 683547.7							Drilling Company: SGS North America			
Date Finished Drilling: 4/9/2014 11:20:00 AM Core Size: 4 in Depth to Water: NA										
Logged By: EW Project Manager: Scott Mikaelian Depth to Water: NA	Date S	Started Dril	ling: _	4/9/2014 9	:18:00 AM		Rig Type:	Coordinate	es (NJSPN/	AD83) y: 683547.7
Logged By: EW Project Manager: Scott Mikaelian Depth to Water: NA							Core Size: 4 in			
Physical Location: Forrest Street - FSI5 Surface Elevation: 7.7 ft NAVD88								Depth to W	Vater: NA	
Depth Range (ft bgs) Recovery (ft/ft) PID (ppm) Moisture (Content USCS Graphic Log Surface Cover and Thickness: Sample ID	Physic	al Locatio	n: For	rest Street	- FSI5					
1 0.5 0.0 dry FILL crushed CONCRETE, with medium gravel, (7.5YR 4/1) dark	Depth Range	Recovery	PID	Moisture						Sample
United to the control of the control			1.1		CONCRETE		CONCRETE, no staining.			
	1 	0.5	0.0	dry	FILL		crushed CONCRETE, with medium g gray, dry, no odor, no staining.	ravel, (7.5YR 4/1) dark	
Notes: bgs - below surface grade	bas - be	elow surface	grade	COPR - chi	romite ore proc	essing ro	residue UNDno - non-organic undisturbed nativ	ve deposits	MGP - manu	factured gas plant
	MM - m	eadow mat		GGM - gree	en grey mud		UNDorg - organic undisturbed native d	leposits (CCPW - chro	omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:06

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FSI5A

	Number:					rilling Method: Geoprobe		NAD83) x: 611855.2
	tarted Drill					ig Type:		IAD83) y: 683547.7
Date Fi	nished Dr	illing:	6/9/2015	12:00:00 PM		ore Size: 2 in	Boring Total Depth:	13 ft
	By: EW				Pi	roject Manager: Scott Mikaelian	Depth to Water: N	
Physic	al Location	n: For	rest 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 Thi	ckness:	Sample ID
 -1		0.0		CONCRETE		CONCRETE, no staining.		
-2 	4	0.0	wet	FILL		fine to medium SAND,trace silt and fir dark brown,wet,no odor,no staining.	e gravel,(7.5YR 3/2)	FSI5A-2.0-2.5
-3 		0.0	wet	CONCRETE FILL		crushed CONCRETE. medium SAND, with fine gravel, (7.5YF odor, no staining.	4/2) brown,wet,no	FSI5A-3.0-3.5
4 				NR		NO RECOVERY.		
5 6		0.0	wet	FILL		fine SAND,little fine gravel,(7.5YR 4/2 odor,no staining.) brown,wet,no	FSI5A-5.0-5.5
7 8	5	0.0	wet	FILL		medium SAND,trace fine gravel,(7.5Yl odor,no staining.	R 4/2)brown,wet,no	FSI5A-7.0-7.5
-9 		0.0	wet	FILL		medium SAND,trace fine gravel,(7.5Yl odor,no staining.	R 4/2) brown,wet,no	FSI5A-9.0-9.5
-10			wet	SM		medium SAND,trace fine gravel,(7.5Yl odor,no staining,UNDno. Soils consist	R 4/2) brown,wet,no ent with UNDno.	-
11 12	1.5			NR		NO RECOVERY.		FSI5A-11.0-11.5
 13								
	low surface		COPR - chr GGM - gree	omite ore proce	essing resi	idue UNDno - non-organic undisturbed nativ UNDorg - organic undisturbed native de	e deposits MGP - man	ufactured gas plant

Bo	ring	g ID	: FSI6	ô

Project	t Name: F	PPG Ga	rfield Ave			Drilling Company	: SGS North America		rage. I
	t Number:					Drilling Method:		Coordinates (NJSPN	NAD83) x: 611872.7
				11:35:00 AM		Rig Type:	CCOPICSC	Coordinates (NJSPN	
				11:00:00 7 WI 112:20:00 PM		Core Size:		Boring Total Depth:	
	d By: EW		7/10/2017	F 12.20.00 1 W		Project Manager:	Scott Mikaelian	Depth to Water: NA	
Physic	al Location	n· For	rest Street	- FSI6		. rojoot managori	Cook Williams	Surface Elevation:	
Depth Range (ft bgs)	Recovery		Moisture Content		Graphic Log		Surface Cover and Thickne		Sample ID
	0.9	0.0		CONCRETE		CONCRETE,	no staining.		
						¥			
Notes:	 aa.:::6= -		CODE :			adding UND	and the second s	nasita MOD	fortunal and along
ngs - bel MM - me	ow surrace	grade	GGM - gree	onlite ore proce	essing re	siaue UNDora - nor UNDora - ora	n-organic undisturbed native de ganic undisturbed native depos	posits MGP - manuits CCPW - chr	ufactured gas plant comate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:06

A E C O M

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

	Boring	ID:	FSI	6A
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Project						Drilling Company: SGS North America		
	Number:					Drilling Method: Geoprobe		NAD83) x: 611872.7
			6/8/2015 2:			Rig Type:		NAD83) y: 683609.6
			6/10/2015	5 10:00:00 AN		Core Size: 2 in	Boring Total Depth	
	By: EW			F010.4		Project Manager: Scott Mikaelian	Depth to Water: N	
rnysica	II LOCATIO	n: For	rest Street	- FSI6A		1	Surface Elevation:	88UVAN π σ. 1
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thi	ckness:	Sample ID
 -1 	2	0.0		CONCRETE		CONCRETE.		
		0.0	wet	FILL		fine to medium SAND,(7.5YR 3/1)very odor,no staining.	dark gray,wet,no	FSI6A-2.0-2.5
_3 -4	3.5	0.0	wet	FILL		fine SAND,trace silt,(10YR 5/2) grayis odor,no staining.	h brown,wet,no	FSI6A-4.0-4.5
- 5 - 5				NR		NO RECOVERY.		
-6 -7		0.0	wet	SM		fine to medium SAND,trace fine grave brown,wet,no odor,no staining,UNDno UNDno.	I,(5YR 4/3) reddish Soils consistent with	FSI6A-6.0-6.5
8 9 10	4							FSI6A-8.0-8.5
Notes: bgs - belo MM - mea	ow surface adow mat	grade	COPR - chr GGM - gree	omite ore proc	essing re	esidue UNDno - non-organic undisturbed nativ UNDorg - organic undisturbed native de	e deposits MGP - mar	nufactured gas plant promate chemical production wa

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

	Number:		rfield Ave			Orilling Company: SGS North America Orilling Method: Geoprobe	Coordinates (NJSPI	NAD83) v. 611029
				10:15:00 AM				
				10:45:00 AM		Rig Type:	Coordinates (NJSPN	
			4/11/2014	4 11:45:00 AN		Core Size: 3 in	Boring Total Depth:	
	By: EW			F0:7	l	Project Manager: Scott Mikaelian	Depth to Water: NA	
Physica	II Locatio	n: For	rest Street	- FSI7	1	T	Surface Elevation:	10.5 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	kness:	Sample ID
		0.0		CONCRETE	2 2 4 5	CONCRETE, no staining.		
		0.0	dry	FILL		fine SAND, trace silt, little ceramics, (10	IVR 4/2) dark gravish	FSI7-0.5-1.0
-1-		0.0	to		\bowtie	brown, non plastic, soft to loose, dry to		-
- 4		0.0	slight	FILL	\bowtie	odor, no staining, and brick.	/	
-2-	2.9		moist		\bowtie	fine SAND, trace silt, little brick, (10YR	3/6) dark yellowish	
		0.0	dry	FILL	\bowtie	brown, non plastic, soft, dry to slightly m	noist, no odor, no	FSI7-2.0-2.5
- 1			to		\bowtie	\staining. some ceramics,	/7 EVD 2/2\ dork	
-3-			slight moist	NR	rxxxx	brown, non plastic, soft, moist, no odor,		1
			moist	1311		NO RECOVERY	110 Stairing.	
,			1110100	,		THO THE GOVERN		
-4		0.0	moist	FILL		fine to medium SAND, some ceramics,	(7.5YR 3/3) dark	FSI7-4.0-4.5
					\bowtie	brown, non plastic, soft, moist, no odor,	no staining.	
-5-					\bowtie			
					\bowtie			
	4							
-6-	7	0.0	slightly	FILL		fine to medium SAND, little silt, trace ce	eramics. (10YR 5/2)	FSI7-6.0-6.5
			moist		\bowtie	grayish brown, non plastic, soft, slightly		
7					\bowtie	staining.		
·					\bowtie	-		
					\bowtie			
-8-+		0.0	moist	FILL		fine to medium SAND, some silt, (10YR	6/1) gray non	FSI7-8.0-8.5
		0.0	to	''	\bowtie	plastic, soft, moist to wet, no odor, no st		
_9—			wet		\bowtie		g.	
Ŭ					\bowtie			
- 1					\bowtie			
- 10	4				\bowtie			FSI7-10.0-10.5
. 4					\bowtie			
-11		0.0	wet	SM		fine to medium silty SAND, (5YR 5/2) re		FSI7-10.5-11.0
''						plastic, soft, wet, no odor, no staining. S UNDno.	oils consistent with	
- 1		0.0	moist	SM		fine silty SAND, (5YR 5/2) reddish gray	non plastic soft	1
12 						moist, no odor, no staining. Soils consis	tent with UNDno.	
			i .	1	1			
	ow surface	grade	COPR - chi GGM - aree	romite ore procen grey mud	essing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	ufactured gas plant romate chemical production w
ogs - belo VIM - mea			COPR - chi GGM - gree	romite ore proc en grey mud	essing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manuosits CCPW - chi	ufactured gas plant romate chemical production w

A=COM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: FSI8**

Project						Orilling Method: Geoprobe		NAD83) x: 611933.1
Date St	arted Drill	ing: 4	1/10/2014	11:30:00 AM	F	Rig Type:	Coordinates (NJSPN	AD83) y: 683666.3
Date Fi	nished Dr	illing:	4/11/2014	1 10:15:00 AM		Core Size: 3 in	Boring Total Depth:	
Logged	By: EW				F	Project Manager: Scott Mikaelian	Depth to Water: NA	1
Physica	al Locatio	n: For	rest 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 Thio	ckness:	Sample ID
		0.0		CONCRETE	P 14 P	CONCRETE, no staining.		
- +		0.0	dry	FILL		crushed CONCRETE, with medium sa	nd and gravel (7 5YR	FSI8-0.5-1.0
—1 —	-	0.0	dry	FILL	\Longrightarrow	4/4) brown, non plastic, loose, dry, no		FSI8-1.0-1.5
- 4		0.0			XXXX	fine SAND, little silt, some ceramics, (5		FSI8-1.5-2.0
2 <u></u>	4		dry	FILL	>>>>>	brown, non plastic, soft, dry, no odor, r fine SAND, little silt, some ceramics, (5	io staining. VD 4/3) roddish	FSI8-2.0-2.5
		0.0	moist	FILL		brown, non plastic, soft, dry, no odor, r		
		0.0	moist	FILL	XXXX	fine to medium silty SAND, with ceram	ics, (10YR 4/2) dark /	FSI8-2.5-3.0
-3-		0.0	moist	FILL	XXXX	\grayish brown, non plastic, soft, moist,		FSI8-3.0-3.5
		0.0	moist	FILL		fine to medium silty SAND, with ceram grayish brown, non plastic, soft, moist,		FSI8-3.5-4.0
4 5	4	0.0	moist	FILL		fine to medium SAND, with ceramics, dark grayish brown, non plastic, soft, n staining. fine SAND, with silt, little coal, (10YR 4 brown, non plastic, soft, moist, no odor	race coal, (10YR 4/2) noist, no odor, no l/2) dark grayish	FSI8-4.0-4.5
6 7	4					ceramics. fine SAND, some silt, trace brick, (7.5\ plastic, soft, moist, no odor, no staining	g, trace ceramics.	FSI8-6.0-6.5
-		0.0	moist	FILL		fine SAND, some silt, (10YR 5/2) grayi soft, moist, no odor, no staining.	sh brown, non plastic,	
- 9 9 	4	0.0	moist	FILL		fine SAND, some silt, (10YR 5/2) grayi soft, moist, no odor, no staining.	sh brown, non plastic,	FSI8-8.0-8.5
-10	4	0.0	moist	SM	$\times \times $	fine SAND, trace silt, (10YR 5/2) grayis	sh brown non plastic	FSI8-10.0-10.5
 11		0.0	wet	SM		soft, moist, no odor, no staining. Soils UNDno.	consistent with	FSI8-10.5-11.0
 12						medium SAND, trace fine gravel, (5YR non plastic, soft to loose, wet, no odor, consistent with UNDno.		
MM - me	ow surface adow mat			romite ore proce en grey mud	essing res	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de	e deposits MGP - mani posits CCPW - chi	ıfactured gas plant omate chemical production w

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: FSI9

Date St								(NJSPNAD83) y: 683546.9		
				12:50:00 PM			oring Total Depth:			
	By: EW						epth to Water: NA			
	al Locatio		rest Street	- FSI9			urface Elevation:			
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		0.0	dry	FILL		medium to coarse SAND, little ash and fill ma 4/2) dark grayish brown, non plastic, loose, d staining.		FSI9-0.4-0.9		
_		0.0	dry	FILL FILL	$\otimes\!\!\!\otimes\!\!\!\otimes$	BRICK, no staining.		FSI9-1.5-2.0		
-2	2.1	0.0	to slight	NR		fine to medium SAND, little fine gravel and fil (7.5YR 4/1) dark gray, non plastic, loose, dry				
-3 -4	<u>-</u> 1		moist			moist, no odor, no staining. NO RECOVERY				
_ -5		0.0	dry	FILL		medium SAND, little ash and fine gravel, (10		FSI9-5.0-5.5		
_6 		0.0	moist	FILL		gray, non plastic, loose, dry, no odor, no stair fine to medium SAND, trace very fine gravel,	(7.5YR 4/2)			
_ _7	4		to wet			brown, non plastic, soft, moist to wet, no odo	r, no staining.	FSI9-7.0-7.5		
-8- -								FSI9-8.0-8.5		
-9— —				NR	*****	NO RECOVERY				
-10		0.0	moist	FILL		fine to medium SAND, little very fine gravel, (7 5VP 4/2\	FSI9-10.0-10.5		
-11 -12 -12	4.5		moiot	1122		brown, non plastic, soft, moist, no odor, no st		FSI9-12.0-12.5		
-13 -										
-14		0.0	moist	FILL		fine to medium SAND, little fine gravel, (5YR	5/4) reddish	FSI9-14.0-14.5		
\dashv				NR	(XXXXX	brown, non plastic, soft, moist, no odor, no st				
-15 - -		0.0	moist	FILL		NO RECOVERY fine to medium SAND, little fine gravel, (5YR brown, non plastic, soft, moist, no odor, no st				
-16								FSI9-16.0-16.5		
- -17 -	5	0.0	wet	SM		UNDno medium SAND, little fine gravel, (5Yf brown, non plastic, soft, wet, no odor, no stai sands. Soils consistent with UNDno.	R 4/3) reddish ning, red fine	FSI9-16.5-17.0		
-18 - -		0.0	wet	SM		UNDno fine SAND, trace silt, (5YR 4/3) redd plastic, soft, wet, no odor, no staining, red fin				
-19 -						consistent with UNDno.				
-20						l				
	low surface	grade	COPR - chr	omite ore proc	essing re	sidue UNDno - non-organic undisturbed native depos	sits MGP - manu	factured gas plant		

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/15/16 23:05

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Boring ID: FSI10

D	. NI	200.0-				Neillian Communication COO North Associate		Page: 1
	t Name: F					Orilling Company: SGS North America	0 (N. 100)	NA DOO) 044040
	t Number:			40.00.414		Orilling Method: Geoprobe	Coordinates (NJSPI	
			6/5/2015 9:			Rig Type:		IAD83) y: 683566.8
			6/5/2015	12:25:00 PM		Core Size: 3 in	Boring Total Depth:	
	d By: EW				P	Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: For	rest 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 Thickne	ess:	Sample ID
 1		0.0	dry	FILL		COAL ASH and Cinders,(7.5YR 4/1) dark odor,no staining.	gray,dry,no	FSI10-0.0-0.5 FSI10-1.0-1.5
2 	3.5	0.0	dry	FILL		fine to coarse SAND,with concrete, and co (7.5YR 4/1) dark gray,dry,no odor,no stain		FSI10-3.0-3.5
 4 				NR	*****	NO RECOVERY.		
 5		0.0	wet	FILL		BRICK, with medium to coarse sand, (7.5Y	R 4/1) dark	FSI10-5.0-5.5
6 - 6 7				NR		gray,wet,no odor,no staining. NO RECOVERY.		
 8 9	0.5							
10								
—10— – –		0.0	wet wet	FILL FILL		BRICK,and medium to coarse sand,with fi 4/3) reddish brown,wet,no odor,no staining		FSI10-10.0-10.5
11		0.0	moist	FILL		ASH and CINDERS,(7.5YR 2.5/1) black,w		
11		0.0	moist	FILL	₩₩	\\staining.	//	FSI10-11.0-11.5
 12 13	3.5	0.0	moist	FILL		fine to medium SAND,some brick,(7.5YR gray,moist,no odor,no staining. fine to medium SAND,trace fine gravel,(7.brown,moist,no odor,no staining. fine to medium SAND,trace silt,(7.5YR 2.5	5YR 4/2)	FSI10-13.0-13.5
 14 				NR		brown,moist,no odor,no staining. NO RECOVERY.		
 15		0.0	wot	FILL	XXXX	fine SAND, with silt, (7.5YR 3/2) dark brown	n wet no oder no	FSI10-15.0-15.5
 16 		0.0	wet	FILL		staining.	i,wei,no odor,no	
- ' - 18 19	5	0.0	wet	SM		UNDno fine SAND,with silt,(10YR 5/2) gra odor,no staining. Soils consistent with UNI	ayish brown,wet,no Ono.	FSI10-17.0-17.5
Notes: bgs - be MM - me	low surface		COPR - chru		essing res	sidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	posits MGP - mani its CCPW - chi	ufactured gas plant romate chemical production waste

Boring ID: FSTP1

Page: 1

Project Name: PPG G	orfiold Avo		D.	illing Company: ENTACT		Page: 1	
Project Number: 6024				rilling Method:	Coordinates (N ISDN	NAD83) x: 611842.676828	
		0.20.00 AM				IAD83) y: 683649.687149	
Date Started Drilling: Date Finished Drilling:				g Type:			
Logged By: EW	2/ 12/2012	+ 2.40.00 FIVI		oject Manager: Scott Mikaelian	Boring Total Depth: Depth to Water: NA		
Physical Location: Fo	rrest Stroot	- FSTD1	PI	oject manager. Scott mikaenan	Surface Elevation:		
	iresi Sireei	- F31F1			Surface Elevation.	10.7 IL NAVD66	
Depth Range (ft bgs) Recovery (ft/ft) PID (ppm)	Moisture Content	uscs	Graphic Log	Surface Cover and Thickn	ness:	Sample ID	
0.2 0.0		ASPHALT	~~~~	∼ ASPHALT			
(ft bgs) (137) (177)	dry to moist	ASPHALT		ASPHALT fine to medium SAND, with fine to medium material, (7.5YR 3/4) dark brown, dry to r staining. No visible CCPW/green staining	noist, no odor, no		
Notes: bgs - below surface grade MM - meadow mat	COPR - chr GGM - gree	omite ore proce	ssing resio	due UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - manu sits CCPW - chr	ufactured gas plant omate chemical production waste	

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Boring ID: FSTP4

Page: 1

	702.004.02							Page: 1	
	t Name: _F					Drilling Company: ENTACT			
	t Number:					Drilling Method:			
Date S	tarted Dril	ling: _4	4/3/2014 1	0:15:00 AM		Rig Type:			
Date F	inished Dr	illing:	4/3/2014	3:20:00 PM		Core Size:	Boring Total Depth	: 2 ft	
	d By: EW		_			Project Manager: Scott Mikaelian	Depth to Water: N		
	al Locatio		rest Street	- FSTP4			Surface Elevation:		
							, , , , , , , , , , , , , , , , , , , ,		
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Tr	nickness:	Sample ID	
	0.4	0.0		CONCRETE	p N.A.	CONCRETE			
	- 0.4	0.0	dry	FILL		fine to medium GRAVEL, some cinde	are little coal (5VP 3/1)	-	
1_			ury		\bowtie	very dark gray, dry, no odor, no staini			
'	1.6	0.0	dry	FILL	\bowtie	encountered.	11g. 140 001 VV		
	1		-		\bowtie	fine to medium GRAVEL, some sand	and fill material,		
2					XXXX	$\stackrel{\mbox{\scriptsize M}}{-}$ (7.5YR 3/3) dark brown, dry, no odor	, no staining. No CCPW /		
Notes:						encountered.			
bgs - be MM - me	elow surface eadow mat	grade	COPR - chr GGM - gree	romite ore proc en grey mud	essing re	esidue UNDno - non-organic undisturbed native of UNDorg - organic undisturbed native of UNDorg -	ve deposits MGP - mai deposits CCPW - cl	nufactured gas plant nromate chemical production waste	

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/20/16 16:29

Comments: No CCPW/GGM identified.

	ECO							Boring I	D: ICO-21
	htsbridge Roa 732.564.3200	office to	elephone	354				T	Page: 1
Project Name: PPG Soil RIWP Project Number: 6015-4801						Company: Method: A	SGS .irknife/Geoprobe	Coordinates (NJSPNAD83) x: 611849.5	
	ted Drillin					: Airknife	/Geoprobe	Coordinates (NJSPNAD83) y: 683656.2	
	shed Drilli 3y: A. Sal				Core Siz		Robert Cataldo	Boring Total Depth: 20 ft Depth to Water: 5 ft	
	Location:			in Alle				(Note bgs = below ground	d aurface)
Depth								(Note bys – below ground	
Range (ft bgs)	Recovery (ft/ft)	(ppm)	Moisture Content		USCS	Graphic Log	Su	rface Cover and Thickness:	Sample Number
_ ₁ _	-	0	dry	2	Fill		Black Asphalt and S		ICO-21_ 0.5
		0	dry	3	Fill		Very Dark Brown (1) fine to medium angu	0YR 2/2) medium to fine SAND, some very ular Gravel, trace Silt, trace coarse	ICO-21 2.0
_ _			dry	3	Fill		sub-angular Gravel,	loose, no odor edium to coarse SAND, some fine to coarse	100 21_2.0
		0	dry	3	Fill		─ angular Gravel, trac	e Silt and Fill (concrete, slag), loose. No	100.04.40
4	1	0	dry	3	Fill			0YR 2/2) medium to coarse SAND, some	ICO-21_ 4.0
5			moist	3	Fill			ılar Gravel, little Fill (slag, wood, glass), trace $/$	
6		0	wet	9	SM-ML		Very Dark Grayish E	Brown (10YR 3/2) medium to coarse SAND,	ICO-21_ 6.0
_7	4						\sub-angular Gravel,	m angular Gravel, trace Silt, trace coarse loose. No odor.	
8	4	0	wet	10	SM-ML			Brown (10YR 3/2) fine to medium Sandy ace fine angular Gravel, organics and Mica	ICO-21_ 8.0
_9 _							\fragments, cohesive		
10		0	wet	10	SM-ML		Strong Brown (7.5Y	SYR 3/1) SILT and fine SAND, soft. No odor. (R 5/6) SILT and fine SAND, little Clay, trace	ICO-21 10.0
		0	wet	10	SM-ML		\angular Gravel, stiff. No Recovery	. No odor.	
	-	0					Reddish Brown (5YI	R 5/4) SILT and fine SAND, trace fine to	100 24 42 0
12	3	0					coarse angular Grav	vel, very stiff. No odor.	ICO-21_ 12.0
13]		wet	10	SM-ML		No Recovery		
14									
15			wet	10	SM		Reddish Brown (5YI	R 4/4) fine to medium SAND, some fine to	
16	-	0					coarse angular Ġrav	vel, little Silt, dense. No odor.	ICO-21_ 16.0
17	3.5		wet	10	SM-ML		Peddish Brown (5VI	R 4/3) SILT and fine SAND, little Clay, stiff.	
18		0	Wet	10	SIVI-IVIL		No odor.	(14/3) GILT and line SAND, little Glay, Still.	ICO-21_ 18.0
19			wet	10	SM-ML		No Recovery		
20							End of boring at 20	ft	
21	1						End of bonning at 20		
23	1								
25									
27									
28	_								
29	_								
30]								
31									
32	1								
	1								
34									
35]								
00	ts: No CO		1			1			-1

Boring ID: ICO-23/114-MW30A

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1

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

					Boring Total Depth:			
	l By: B. D					Project Manager: Scott Mikaelian	Depth to Water: NA	
hysic	al Locatio	n: For	rest St	I		+	Surface Elevation:	10.2 ft NAVD88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
_ -1			dry	CONCRETE FILL		White CONCRETE, rebar, dense. No st Very Dark Gray (7.5YR 3/1) FILL Materis slag, brick, concrete, cobbles), some fine and angular Gravel, little Silt, loose.	al (ash, cinders,	ICO-23-0.3
-2— - -3—			moist	FILL		Dark Gray (7.5YR 4/1) ASH, some fine t angular Gravel, little Silt, loose.	o coarse Sand and	ICO-23-2.0
-4			wet	FILL		Brown (7.5YR 4/2) fine to coarse SAND,	some fine to	ICO-23-4.0
-5-			wet	ML		medium angular Gravel and Fill (ash, cin loose. Gray (7.5YR 5/1) SILT, soft.		
-6 -			wet	ML		Gray (7.5YR 5/1) SILT, some Clay, soft.		ICO-23-6.0
′]			moist	ML-SM		Interbedded Gray (7.5YR 5/1) SILT and	Reddish Brown	
_。			moist	NR		(5YR 4/3) fine to medium Sand, stiff.		
-8-			moist	MH	Ш	No Recovery. Weak Red (2.5YR 4/2) SILT, little Clay,	stiff	ICO-23-8.0
-9-			dry	GM		Reddish Brown (2.5YR 4/3) SILT and me angular Gravel, stiff.		
`			dry	NR		No Recovery.		
-10 			moist to wet	SP		Reddish Brown (5YR 4/3) medium SANI Wet at 10.8 ft.), medium dense.	ICO-23-10.0
-11			wet	NR		No Recovery.		
-12 - -13			wet	SP		Reddish Brown (5YR 4/3) fine to mediun dense.	n SAND, medium	ICO-23-12.0
-			wet	NR		No Recovery.		
-14								

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone **Boring ID: ICO-25**

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						-	Ī	Page: 1
	t Name: F					Drilling Company: SGS North America		
	t Number:					Drilling Method: Geoprobe	NAD83) x: 611872.5	
	tarted Dril					Rig Type:	IAD83) y: 683509.0	
	inished Dr					Core Size: 12 in	Boring Total Depth:	
	d By : B. C		M. Merdin	ger		Project Manager: Scott Mikaelian	Depth to Water: N	
Physic	al Locatio	n:		<u> </u>		<u> </u>	Surface Elevation:	13.3 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickn	ess:	Sample ID
_			dry	CONCRETE		Concrete		
—1— -			dry	FILL		Black (10YR 2/1) ASH and CINDERS, so Sand, Gravel and Slag, loose. No odor.		ICO-25-0.7
—2— – – —3—			dry	FILL		Brown (10YR 4/3) SILT, some fine to me (coal, brick, debris) trace fine angular Graodor.		ICO-25-2.0
			moist	FILL		Yellowish Brown (10YR 5/4) SILT and ve	ry fine SAND,	1
4 5 5						loose. No odor.		ICO-25-4.0
—6— — 7— — -			wet	SP-SM		Reddish Brown (2.5YR 4/4) very fine SAN fine angular Gravel, medium dense to der		ICO-25-6.0
8) wot	NR		: No Recovery		ICO-25-8.0
—9— 			wet		•••••			
			wet	SP		Reddish Brown (2.5YR 4/4) very fine SAI Silt, dilatent, loose to medium dense. No		
MM - me	low surface eadow mat		GGM - gree	omite ore proce on grey mud	essing r	esidue UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - man sits CCPW - ch	ufactured gas plant romate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/1/16 00:56

Boring ID: LD-FS10AHN

Page: 1

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (N ISD	NAD83) x: 611918.1		
				0:30:00 AM		Rig Type:		IAD83) y: 683559.4		
				7:45:00 AM		Core Size: 3.0 in	Boring Total Depth:			
Logge	d By: ES					Project Manager: Scott Mikaelian	Depth to Water: NA			
Physic	al Locatio	n: Act	ual - Forre	st St Propertie	s - RI	+	Surface Elevation:	19.9 ft NAVD88		
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	rness:	Sample ID		
_		0.0		CONCRETE		Concrete slab, no staining				
-1 			dry	FILL		fine to medium SAND, some fill debris, (brown, medium dense, dry, no odor, no	(7.5YR 6/3) light staining.	LS-FS10AHN-1.0-1.5		
-2 	5		dry	FILL		Concrete debris, no staining ASH, little ash slag, trace fill debris, (2.5 gray, loose, dry, no odor, no staining.	Y 6/2) light brownish	LS-FS10AHN-2.0-2.5		
-3 								LS-FS10AHN-3.0-3.5		
-4- <u>-</u>								LS-FS10AHN-4.0-4.5		
-5 -		0.0						LS-FS10AHN-5.0-5.5		
-6- <u>-</u>	2.5		moist	FILL		fine to medium SAND, some fill debris, (medium dense, moist, no odor, no staini		LS-FS10AHN-6.0-6.5		
-7 <i></i> -	3.5							LS-FS10AHN-7.0-7.5		
-8- <u>-</u>				NR		NO RECOVERY		LS-FS10AHN-8.0-8.5		
ИМ - me	eadow mat		GGM - gree	en grey mud		sidue UNDno - non-organic undisturbed native uNDorg - organic undisturbed native deports thick 3) No CCPW (COPR or GGM) present in any interval of this bori	osits CCPW - ch	ufactured gas plant comate chemical production v		

Project Number: 60240739

Project Name: PPG Garfield Ave

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: LD-FS10AHS

Page: 1 Coordinates (NJSPNAD83) x: 611927.5 Coordinates (NJSPNAD83) y: 683546.5

D-4- C4	autad Duil	i (2/2/2016 0	4E:00 ANA			Direct Push	Coordinates (NJSPI	
			9/8/2016 9			Rig Type:		Coordinates (NJSPN	
		ıııng:	9/8/2016	10:10:00 AM		Core Size: 3.0 in	Coott Milessline	Boring Total Depth:	
	By: ES	a. A.	F	at Ot Dears - ad		Project Manager:	Scott iviikaelian	Depth to Water: NA	
nysica	ai Locatio	n: Act	uai - Forre	st St Propertie	S - KI			Surface Elevation:	19.5 π ΝΑΥΔ88
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log		Surface Cover an	d Thickness:	Sample ID
		0.0		CONCRETE		Concrete slab	no staining.		
-1			dry	FILL		fine to mediun	n SAND, little fill de	bris and fine gravel, (7.5YR	LD-FS10AHS-1.0-1.5
-2-	5			FILL		4/3) brown, machine Concrete debr	edium dense, dry, i is, no staining.	no odor, no staining.	
_	5		dry	FILL		fine to mediun	n SAND, some fine	to medium gravel and fill	LD-FS10AHS-2.5-3.0
-3						debris, (5YR 4 odor, no staini	(4) reddish brown,	medium dense, dry, no	LD-FS10AHS-3.0-3.5
-4									LD-FS10AHS-4.0-4.5
-5-		0.0							LD-FS10AHS-5.0-5.5
-6									LD-FS10AHS-6.0-6.5
-7— —	3.5								LD-FS10AHS-7.0-7.5
-8-						X			LD-FS10AHS-8.0-8.5
_				NR	XXXX	NO RECOVER	RY		1
ĬM - me	ow surface adow mat		GGM - gree	omite ore proce		esidue UNDno - non UNDorg - org ft thick 3) No CCPW (COPR or	-organic undisturbec anic undisturbed na	tive deposits CCPW - chr	ufactured gas plant omate chemical production wa

Drilling Company: SGS North America

Drilling Method: Direct Push

Boring ID: LD-FS10AVN

Page: 1

	Name: F					Drilling Company: SGS North America		
	Number:					Drilling Method: Direct Push	Coordinates (NJSP	NAD83) x: 611922.1
Date St	arted Dril	ling: S	9/8/2016 1	2:50:00 PM		Rig Type:		NAD83) y: 683563.2
		illing:	9/8/2016	2:00:00 PM		Core Size: 2.0 in	Boring Total Depth:	
	IBy: ES					Project Manager: Scott Mikaelian	Depth to Water: N	A
Physica	al Locatio	n: Act	ual - Forre	st St Propertie	s - RI		Surface Elevation:	20.6 ft NAVD88
Depth	_							
Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thick	ness:	Sample ID
		0.0		CONCRETE	P 4 4	Concrete floor slab, no staining		
-			dry	FILL		fine to medium SAND, some fill debris, (7 5YR 4/3) brown	LD-FS10AVN-0.5-1.0
-1-			Ci y	''	XXX	medium dense, dry, no odor, no staining	.	
╛					XXX	8		
-2-					XXX	8		LD-FS10AVN-2.0-2.5
4	5				XXX	8		
-3-					XXX	8		
					XXX	8		
			moist	FILL	XXX	ASH, some silt, (7.5YR 4/3) brown, med	lium dense, moist,	
-4					\ggg	no odor, no staining.		LD-FS10AVN-4.0-4.5
				FILL		Concrete debris, no staining.		
-5		0.0	dry	FILL		ASH, some fill debris, (5Y 5/1) gray, me	dium dense, dry, no	
					XXX	odor, no staining.		
-6-					XXX			LD-FS10AVN-6.0-6.5
\dashv					XXX			
-7					XXX			
4	3.5				XXX			
_8					XXX	×		I D F0404: ": 2 2 2
`]					XXX	₹		LD-FS10AVN-8.0-8.5
				NR		NO RECOVERY		
-9								
-10		0.0	moist	FILL		fine to medium SAND, some fill debris, I	ittle coarse gravel.	LD-FS10AVN-10.0-10.5
-				'	XXX	(5YR 4/4) reddish brown, medium dense		
-11					XXX	staining.		
-					XXX	X		
-12					XXX	8		LD-FS10AVN-12.0-12.5
\perp	3				XXX	8		LD-F3 IUAVIN-12.0-12.5
-13					XXX	8		
13				NR		REFUSAL at 13.0 feet		
<u>,</u> ,								
-14								
\dashv								
15						1		
otes:	ow surface	arade	COPR - chr	omite ore proce	ssina r	esidue UNDno - non-organic undisturbed native	deposits MGP - man	ufactured gas plant
M - me	adow mat	_	GGM - gree	en grey mud	Jonny I	UNDorg - organic undisturbed native depo	osits CCPW - ch	iromate chemical production wa
						ft thick 3) No CCPW (COPR or GGM) present in any interval of this bori		

Boring ID: LD-FS10AVS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 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 PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range (ft/ft) Content ΙĎ (ppm) Log (ft bgs) 0.0 CONCRETE Concrete floor slab, no staining. LD-FS10AVS-0.5-1.0 FILL fine to medium SAND, some fill debris, (7.5YR 4/3) brown, dry medium dense, dry, no odor, no staining. LD-FS10AVS-2.0-2.5 5 LD-FS10AVS-4.0-4.5 0.0 LD-FS10AVS-6.0-6.5 FILL fine to medium SAND, little fill debris, trace cinders and silt, dry (5YR 4/4) reddish brown, medium dense, dry, no odor, no staining. 5 LD-FS10AVS-8.0-8.5 LD-FS10AVS-10 0-10 5 0.0 FILL ASH, some cinders, (5Y 5/1) gray, loose, dry, no odor, no dry staining. 12 LD-FS10AVS-12.0-12.5 5 13 LD-FS10AVS-14.0-14.5 0.0 FILL ASH, little cinders, (2.5Y 5/2) grayish brown, loose, dry, no dry odor, no staining. **FILL** wet fine silty SAND, little fill debris, (2.5Y 5/2) grayish brown, 16 LD-FS10AVS-16.0-16.5 soft, wet, no odor, no staining, water at 15.5 feet. LD-FS10AVS-16.5-17.0 wet **FILL** fine silty SAND, little fill debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. fine SAND, little silt, (5YR 4/4) reddish brown, medium LD-FS10AVS-17.0-17.5 SP wet 5 dense, wet, no odor, no staining. Soils consistent with A.GDT - 12/7/16 23: UNDno. LD-FS10AVS-18.0-18.5 LD-FS10AVS-20.0-20.5 0.0 2012-09 RA PPG LOGS 1 -21

bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

nts: 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.

A.GDT - 12/7/16 23:

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-AA13B

Page: 1

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 Depth to Water: 7 Logged By: KW Project Manager: Scott Mikaelian Surface Elevation: 10.5 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 CONCRETE 1 Concrete floor slab NFS-PDI-AA13B-0.5-1.0 moist 3 FILL ASH, some cinders, trace fill debris, (5YR 2.5/1) black, loose, moist, no odor, no staining. 3.5 NFS-PDI-AA13B-2.0-2.5 NR NR NO RECOVERY NFS-PDI-AA13B-4.0-4.5 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-5.5-6.0 NFS-PDI-AA13B-6.0-6.5 moist 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 to with UNDno. wet NFS-PDI-AA13B-8.0-8.5 0.0 SILT, trace fine sand, (5Y 7/1) light gray, dense, wet, no 9 ML saturated odor, no staining. Soils consistent with UNDno. 4 NFS-PDI-AA13B-10.0-10.5 NFS-PDI-AA13B-12.0-12.5 0.0 NFS-PDI-AA13B-14.0-14.5 SP wet 10 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. 16 NFS-PDI-AA13B-16.0-16.5 0.0 4 NFS-PDI-AA13B-18.0-18.5 19 NFS-PDI-AA13B-20.0-20.5 0.0 1 -21 Notes: MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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.

Boring ID: NFS-PDI-AA14B

Page: 1

	Name: P Number:						ng Company: SGS North America ng Method: Direct Push	Coordinates (NJSPNA	D83) x: 611795.3
	arted Drill			1:20:0	0 AM	Rig T		Coordinates (NJSPNAD	
ate Fi	nished Dri	lling:	9/19/2016	12:20	:00 PM		Size: 2.0 in	Boring Total Depth: 2	
	By: ES						ct Manager: Scott Mikaelian	Depth to Water: 5	
	I Location	ı: Actu	ıal - Forres	t St Pr	operties - F			Surface Elevation: 10	.3 ft NAVD88
					•				
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID
		0.0		1 (ONCRET	2 4 6	Concrete floor slab		
1 —			dry	3	FILL		fine to medium SAND, some ash, (2. dry, no odor, no staining.	5Y 5/1) gray, loose,	NFS-PDI-AA14B-0.5-1.0
2 —	4		moist	3	FILL		fine silty SAND, little fine gravel, trac- reddish brown, medium dense, moist	e ash, (5YR 4/3) , no odor, no staining.	NFS-PDI-AA14B-2.5-3.0
3 —		0.0	wet	3	FILL		fine silty SAND, (7.5YR 3/3) dark bro	own medium dense	
5 — - 6 —	4	0.0	WCt		I ILL		wet, no odor, no staining, water at 5.	0 feet.	NFS-PDI-AA14B-4.5-5.0
7 — - 8 —		0.0						0.74.70	NFS-PDI-AA14B-6.5-7.0
_		0.0	wet	3	FILL		fine silty SAND, trace fine gravel and grayish brown, medium dense, wet, r		NFS-PDI-AA14B-8.5-9.0
9 — - 10—	4		wet	10	SM		fine silty SAND, (5YR 4/3) reddish br wet, no odor, no staining. Soils consi		NFS-PDI-AA14B-9.0-9.5
 11 12									NFS-PDI-AA14B-10.5-11.0
13—		0.0	wet	9	ML		sandy SILT, (2.5Y 5/2) grayish brown staining. Soils consistent with UNDno		NFS-PDI-AA14B-12.5-13.0
14	4		wet	10	SM		fine to coarse SAND, some fine to m		_
 15 16							(5YR 4/3) reddish brown, dense, wet Soils consistent with UNDno.	, no odor, no staining.	NFS-PDI-AA14B-14.5-15.0
	4	0.0							NFS-PDI-AA14B-16.5-17.0
9 —									NFS-PDI-AA14B-18.5-19.0
20— — 21—	1	0.0							NFS-PDI-AA14B-20.0-20.5
	ow surface o		COPR - chro GGM - greer			ng residue	UNDno - non-organic undisturbed native of UNDorg - organic undisturbed native depo		ctured gas plant late chemical production was

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/7/16 23:36

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: NFS-PDI-AA15B

732.564.3200 office telephone 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 Depth to Water: 3 Logged By: Kyle Willis Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - Supplemental PDI Surface Elevation: 10.5 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 CONCRET 1 Concrete floor slab NFS-PDI-AA15B-0.5-1.0 CINDERS, little ash, (5YR 2.5/1) black, loose, moist, no **FILL** moist 3 odor, no staining. 3 FILL fine to medium silty SAND, little cinders, ash, (7.5YR 4/2) moist 3.5 to brown, loose, moist to wet, no odor, no staining, water at NFS-PDI-AA15B-2.0-2.5 wet 3.0 feet. NR NO RECOVERY NR NFS-PDI-AA15B-4.0-4.5 0.0 wet 3 FILL CINDERS, some ash, (5YR 2.5/1) black, loose, wet, no odor, no staining. 3 FILL SILT, little fill debris, trace coal, (7.5YR 4/1) dark gray, soft, wet wet, no odor, no staining. NFS-PDI-AA15B-6.0-6.5 NFS-PDI-AA15B-8.0-8.5 0.0 FILL 3 CINDERS, some ash, little silt, (7.5YR 4/1) dark gray, wet medium dense, wet, no odor, no staining. SILT, trace fill debris, (7.5YR 4/1) dark gray, firm, wet, no wet 3 FILL 4 odor, no staining. NES-PDI-AA15B-10 0-10 5 NFS-PDI-AA15B-10.5-11.0 NFS-PDI-AA15B-11.0-11.5 14 ML SILT, trace fine sand, (5YR 6/3) light reddish brown, firm, wet wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-AA15B-12.0-12.5 fine to coarse SAND, little fine to coarse gravel, trace silt, 0.0 10 SW wet (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-AA15B-14.0-14.5 16 NFS-PDI-AA15B-16.0-16.5 0.0 4 NFS-PDI-AA15B-18.0-18.5 19 NFS-PDI-AA15B-20.0-20.5 0.0 1 -21 Notes: bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

2012-09

A.GDT - 12/15/16

RA PPG LOGS

ents: 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

MGP - manufactured gas plant CCPW - chromate chemical production waste

A.GDT - 12/15/16

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-BB12B

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611776.5 Drilling Method: direct push 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 Depth to Water: 7 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 11.3 ft NAVD88 Physical Location: Actual - Forrest St Properties - Supplemental PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 1 CONCRETE Concrete floor slab NFS-PDI-BB12B-0.5-1.0 fine to medium SAND, some ash, little cinders, (7.5YR 4/3) dry 3 FILL brown, medium dense, dry, no odor, no staining. 2.5 NFS-PDI-BB12B-2.0-2.5 FILL NO RECOVERY 3 NFS-PDI-BB12B-4.0-4.5 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. 3 FILL moist fine to medium SAND, little ash, (7.5YR 6/4) light brown, medium dense, moist, no odor, no staining. NFS-PDI-BB12B-6.0-6.5 fine to medium SAND, little silt, trace ash, (7.5YR 3/3) dark moist 3 FILL brown, medium dense, moist to wet, no odor, no staining, to wet water at 7.0 feet. NFS-PDI-BB12B-7.0-7.5 NFS-PDI-BB12B-7.5-8.0 10 SM fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-BB12B-8.0-8.5 0.0 4 NFS-PDI-BB12B-10.0-10.5 NFS-PDI-BB12B-12.0-12.5 0.0 NFS-PDI-BB12B-14.0-14.5 10 SP fine to coarse SAND, some fine to medium gravel, (5YR wet 16 4/4) reddish brown, medium dense, wet, no odor, no NFS-PDI-BB12B-16.0-16.5 0.0 staining. Soils consistent with UNDno. 4 NFS-PDI-BB12B-18.0-18.5 19 NFS-PDI-BB12B-20.0-20.5 0.0 1 -21 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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

Boring ID: NFS-PDI-BB13B

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 Surface Elevation: 10.7 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ΙĎ (ppm) Log (ft bgs) CONCRETE 0.0 1 Concrete floor slab ASPHALT **ASPHALT** NES-PDI-BB13B-0 7-1 2 dry 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. 4 NFS-PDI-BB13B-2.7-3.2 0.0 **FILL** dry 3 SILT, trace glass and ash, (5YR 4/1) dark gray, dense, dry NFS-PDI-BB13B-4.7-5.2 to wet, no odor, no staining, water at 8.0 feet. to wet NFS-PDI-BB13B-6.7-7.2 0.0 NFS-PDI-BB13B-8.7-9.2 NFS-PDI-BB13B-9.0-9.5 NFS-PDI-BB13B-9.5-10.0 fine to medium silty SAND, (7.5R 3/2) dusky red, dense, wet 10 SM 4 wet, no odor, no staining. Soils consistent with UNDno. 12bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

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

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: NFS-PDI-BB14B

Page: 1 732.564.3200 office telephone

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 Depth to Water: 5.5 Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 10.5 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 CONCRETE 1 Concrete floor slab NFS-PDI-BB14B-0.5-1.0 fine to medium SAND, little coarse gravel, trace fill debris, dry 3 FILL to (5YR 4/3) reddish brown, medium dense, dry to moist, no mosit odor, no staining. 4 NFS-PDI-BB14B-2.5-3.0 moist 3 **FILL** fine silty SAND, trace fine gravel, (7.5YR 3/2) dark brown, 0.0 medium dense, moist, no odor, no staining. NFS-PDI-BB14B-4.5-5.0 FILL fine silty SAND, trace fine gravel and fill debris, (7.5YR 3/2) 3 moist dark brown, dense, moist, no odor, no staining. wet 3 **FILL** fine silty SAND, trace fine gravel, coal and fill debris, (7.5YR 6/3) light brown, medium dense, wet, no odor, no staining, water at 5.5 feet. NFS-PDI-BB14B-6.5-7.0 NFS-PDI-BB14B-8.0-8.5 0.0 NFS-PDI-BB14B-8.5-9.0 10 SM fine SAND, trace silt, (5YR 4/4) reddish brown, dense, wet, wet no odor, no staining. Soils consistent with UNDno. 2.5 NR NR NO RECOVERY 12

2012-09 RA PPG LOGS A.GDT - 12/7/16 23:36

bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: NFS-PDI-BB15B

30 Knightsbridge Road, Piscataway, NJ 08854

732.564.3200 office telephone 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 Depth to Water: 6 Logged By: Kyle Willis Project Manager: Scott Mikaelian Surface Elevation: 10.4 ft NAVD88 Physical Location: Actual - Forrest St Properties - Supplemental PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 1 CONCRETE Concrete floor slab NFS-PDI-BB15B-0.5-1.0 fine silty SAND, little fill debris and fine to medium gravel, moist 3 FILL (5YR 4/3) reddish brown, medium dense, moist, no odor, no staining. 3 NFS-PDI-BB15B-2.0-2.5 NR NR NO RECOVERY NFS-PDI-BB15B-4.0-4.5 0.0 moist 3 FILL fine to coarse SAND, little ash, (5YR 2.5/1) black, medium dense, moist, no odor, no staining. SILT, trace coal and fill debris, (5YR 6/1) gray, soft, moist to 3 FILL moist wet, no odor, no staining, water at 6.0 feet. to wet NFS-PDI-BB15B-6.0-6.5 NFS-PDI-BB15B-7.5-8.0 NFS-PDI-BB15B-8.0-8.5 0.0 SILT, trace fine sand, (5YR 6/3) light reddish brown, firm, 14 wet ML wet, no odor, no staining. Soils consistent with UNDno. 4 NFS-PDI-BB15B-10.0-10.5 NFS-PDI-BB15B-12.0-12.5 0.0 10 SW fine to coarse SAND, little fine to coarse gravel, trace silt, wet (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-BB15B-14.0-14.5 16 NFS-PDI-BB15B-16.0-16.5 0.0 4 NFS-PDI-BB15B-18.0-18.5 19 NFS-PDI-BB15B-20.0-20.5 0.0 1 -21 Notes:

2012-09

A.GDT - 12/15/16

RA PPG LOGS

bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits ents: 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

MGP - manufactured gas plant CCPW - chromate chemical production waste

A.GDT - 12/7/16 23:

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-CC12B

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 Depth to Water: 5.5 Logged By: ES Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 10.7 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) NFS-PDI-CC12B-0.0-0.5 0.0 FILL 3 ASPHALT MILLINGS, some fine to medium sand, (2.5Y dry 3/2) very dark grayish brown, loose, dry, no odor, no **FILL** ASH, some cinders, little fine to medium sand, (2.5Y 4/1) dry 3 dark gray, loose, dry, no odor, no staining. NFS-PDI-CC12B-2.0-2.5 5 NFS-PDI-CC12B-4.0-4.5 slightly 3 FILL fine SAND, little silt, trace fill debris, (7.5YR 3/4) dark moist brown, dense, slightly moist, no odor, no staining. 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 5 NFS-PDI-CC12B-8.0-8.5 NFS-PDI-CC12B-8.5-9.0 10 SP fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet wet, no odor, no staining. Soils consistent with UNDno. 10 NFS-PDI-CC12B-10.0-10.5 0.0 10 SP fine to coarse silty SAND, some fine to medium gravel, wet (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 12-NFS-PDI-CC12B-12.0-12.5 5 NFS-PDI-CC12B-14.0-14.5 0.0 16 NFS-PDI-CC12B-16.0-16.5 NFS-PDI-CC12B-18.0-18.5 19 NFS-PDI-CC12B-20.0-20.5 0.0 1 -21 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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.

A.GDT - 12/15/16

LOGS

RA PPG

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-CC12BR

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 Depth to Water: 6 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 10.5 ft NAVD88 Physical Location: Actual - Forrest St Properties - Supplemental PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 1 CONCRET Concrete floor slab NFS-PDI-CC12BR-0.5-1.0 dry 3 FILL fine to medium SAND, little ash, trace brick, (5YR 5/3) reddish brown, medium dense, dry, no odor, no staining. 3 NFS-PDI-CC12BR-2.5-3.0 FILL fine to medium SAND, trace ash, (5YR 4/3) reddish brown, dry 3 medium dense, dry, no odor, no staining. NR NR No Recovery 0.0 3 FILL fine to medium SAND, trace ash, (5YR 4/3) reddish brown, dry medium dense, dry, no odor, no staining. fine to medium silty SAND, little ash, (7.5YR 3/2) dark NFS-PDI-CC12BR-4.5-5.0 dry 3 FILL NFS-PDI-CC12BR-5.0-5.5 moist 10 SM brown, medium dense, dry, no odor, no staining. to fine silty SAND, (7.5YR 6/3) light brown, medium dense, wet moist to wet, no odor, no staining, water at 6.0 feet. Soils consistent with UNDno. NES-PDI-CC12BR-6 5-7 0 0.3 NFS-PDI-CC12BR-8.5-9.0 4 SM fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, wet 10 medium dense, wet, no odor, no staining. Soils consistent NFS-PDI-CC12BR-10.5-11.0 with UNDno. 1.2 NFS-PDI-CC12BR-12.5-13.0 NFS-PDI-CC12BR-14.5-15.0 16 0.0 NFS-PDI-CC12BR-16.5-17.0 SP 10 fine to coarse SAND, some fine to medium gravel, trace silt, wet (5YR 4/3) reddish brown, medium dense, wet, no odor, no 4 staining. Soils consistent with UNDno. fine to medium SAND, (5YR 4/3) reddish brown, medium NFS-PDI-CC12BR-18.5-19.0 SP wet 10 19 dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-CC12BR-20.0-20.5 0.0 1 -21 UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits bgs - below surface grade COPR - chromite ore processing residue MGP - manufactured gas plant CCPW - chromate chemical production waste MM - meadow mat GGM - green grey mud ents: 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

A.GDT - 12/7/16 23:

LOGS

RA PPG

2012-09

732.564.3200 office telephone

Boring ID: NFS-PDI-CC13B

30 Knightsbridge Road, Piscataway, NJ 08854

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 Depth to Water: 6.5 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 10.7 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 2 ASPHAL **ASPHALT** NFS-PDI-CC13B-0.1-0.6 dry fine to medium SAND, some fine gravel, little asphalt FILL millings, (7.5YR 4/1) dark gray, loose, dry, no odor, no 3 FILL dry fine to medium SAND, some ash, little fill debris, (2.5Y 4/2) dark grayish brown, medium dense, dry, no odor, no NFS-PDI-CC13B-2.0-2.5 4.5 fine to medium SAND, some silt, little ash, (7.5YR 3/3) dark 3 **FILL** dry brown, medium dense, dry, no odor, no staining. NFS-PDI-CC13B-4.0-4.5 NR NR NO RECOVERY 0.0 3 FILL fine to medium SAND, some silt, trace ash, (2.5Y 4/2) dark moist grayish brown, medium dense, moist, no odor, no staining. NFS-PDI-CC13B-6.0-6.5 fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet 3 FILL wet, no odor, no staining, water at 6.5 feet. 5 NFS-PDI-CC13B-7.5-8.0 NFS-PDI-CC13B-8.0-8.5 fine silty SAND, (5YR 4/4) reddish brown, medium dense, SM wet 10 wet, no odor, no staining. Soils consistent with UNDno. 10 NES-PDI-CC13B-10 0-10 5 0.0 SM fine silty SAND, some fine gravel, (5YR 4/4) reddish brown, wet 10 medium dense, wet, no odor, no staining. Soils consistent with UNDno. 12-NFS-PDI-CC13B-12.0-12.5 5 NFS-PDI-CC13B-14.0-14.5 0.0 10 SP fine to coarse SAND, some fine to medium gravel, trace silt, wet (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 16 NFS-PDI-CC13B-16.0-16.5 NFS-PDI-CC13B-18.0-18.5 19 NFS-PDI-CC13B-20.0-20.5 0.0 1 -21 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste nts: 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

Boring ID: NFS-PDI-CC13BR

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

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 Depth to Water: 6.5 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 10.4 ft NAVD88 Physical Location: Actual - Forrest St Properties - Supplemental PDI Depth Moisture GΑ Recovery Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.3 1 CONCRET Concrete floor slab NFS-PDI-CC13BR-0.5-1.0 dry 3 FILL fine to medium SAND, trace brick, (5YR 6/3) light reddish brown, medium dense, dry, no odor, no staining. 2.5 NFS-PDI-CC13BR-2.0-2.5 NR NR No Recovery NFS-PDI-CC13BR-4.0-4.5 0.0 3 FILL fine to medium SAND, trace brick, (5YR 6/3) light reddish dry brown, medium dense, dry, no odor, no staining. fine SAND, little silt, trace ash, (7.5YR 4/2) brown, medium dry 3 FILL NFS-PDI-CC13BR-5.0-5.5 dense, dry, no odor, no staining. NFS-PDI-CC13BR-5.5-6.0 fine silty SAND, (7.5YR 6/3) light brown, medium dense, moist 10 SM moist to wet, no odor, no staining, water at 6.5 feet. Soils to NFS-PDI-CC13BR-6.0-6.5 consistent with UNDno. wet 10 SM fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-CC13BR-8.0-8.5 0.0 4 NES-PDI-CC13BR-10 0-10 5 fine to medium SAND, little silt, trace fine gravel, (5YR 4/3) wet 10 SM reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-CC13BR-12.0-12.5 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-14.0-14.5 16 NFS-PDI-CC13BR-16.0-16.5 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. 10 SM fine silty SAND, (5YR 4/3) reddish brown, medium dense, wet wet, no odor, no staining. Soils consistent with UNDno. 4 NFS-PDI-CC13BR-18.0-18.5 SP fine to medium SAND, (5YR 4/3) reddish brown, medium wet 10 19 dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-CC13BR-20.0-20.5 0.0 1 -21 bgs - below surface grade COPR - chromite ore processing residue MGP - manufactured gas plant

2012-09

A.GDT - 12/15/16

LOGS

RA PPG

MM - meadow mat GGM - green grey mud

ents: 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

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

CCPW - chromate chemical production waste

A.GDT - 12/7/16 23:

2012-09 RA PPG LOGS

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-CC14B

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 Depth to Water: 6.5 Project Manager: Scott Mikaelian Surface Elevation: 10.8 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 ASPHALT 2 Asphalt and gravel sub-base NFS-PDI-CC14B-0.5-1.0 dry 3 FILL fine to medium SAND, little coarse gravel, (7.5YR 2.5/2) to very dark brown, loose, dry to moist, no odor, no staining. moist 5 NFS-PDI-CC14B-2.5-3.0 3 FILL fine silty SAND, little coarse gravel, (5Y 3/1) very dark gray, moist medium dense, moist, no odor, no staining. NFS-PDI-CC14B-4.5-5.0 0.0 3 FILL SILT, some ash, (5YR 3/1) very dark gray, soft, moist to moist wet, no odor, no staining, water at 6.5 feet. to wet NFS-PDI-CC14B-6.5-7.0 4 NFS-PDI-CC14B-7.5-8.0 NFS-PDI-CC14B-8.0-8.5 10 SM fine silty SAND, (7.5YR 4/2) brown, medium dense, wet, no wet odor, no staining. Soils consistent with UNDno. NFS-PDI-CC14B-8.5-9.0 NR NR NO RECOVERY 10 0.0 fine SAND, little coarse gravel, (5YR 4/3) reddish brown, SP wet 10 medium dense, wet, no odor, no staining. Soils consistent NFS-PDI-CC14B-10.5-11.0 with UNDno. 12-5 0.0 16 NO RECOVERY NR NR 19 20 Notes: MGP - manufactured gas plant CCPW - chromate chemical production waste bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits nts: 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

Boring ID: NFS-PDI-CC14BR

Project Name: PPG Garfield Ave Drilling Company: SGS North America Project Number: 60240739 Coordinates (NJSPNAD83) x: 611863.2 Drilling Method: direct push 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 Depth to Water: 2.0 Project Manager: Scott Mikaelian Logged By: E. Acs Physical Location: Actual - Forrest St Properties - Supplemental PDI Surface Elevation: 3.4 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID. (ppm) Log (ft bgs) 0.0 CONCRETE CONCRETE, no odor, no staining. 2 NFS-PDI-CC14BR-2.0-2.5 0.0 14 MLSILT, some fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining, water at 2.0 feet. Soils consistent with UNDno. 10 SM fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no wet odor, no staining. Soils consistent with UNDno. 4 NFS-PDI-CC14BR-4.0-4.5 NFS-PDI-CC14BR-6.0-6.5 0.0 ML SILT, some fine sand, (7.5YR 4/2) brown, soft, wet, no wet 14 odor, no staining. Soils consistent with UNDno. 4 NFS-PDI-CC14BR-8.0-8.5 10 SM fine to medium SAND, little silt, (7.5YR 4/3) brown, medium wet dense, wet, no odor, no staining. Soils consistent with NFS-PDI-CC14BR-10.0-10.5 0.0 SM wet 10 fine silty SAND, (7.5YR 4/3) brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. NFS-PDI-CC14BR-12.0-12.5 NFS-PDI-CC14BR-13.5-14.0 MGP - manufactured gas plant CCPW - chromate chemical production waste

2012-09 RA PPG LOGS A.GDT - 3/21/17 09:48

A E C O M

Boring ID: NFS-PDI-CC15B

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 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 Depth to Water: 6.5 Logged By: ES Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 10.7 ft NAVD88 Depth PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 ASPHAL⁻ 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. FILL fine to medium SAND, some ash and slag, trace fill debris, dry (7.5YR 2.5/2) very dark brown, medium dense, dry, no odor, no staining. NFS-PDI-CC15B-2.0-2.5 5 **FILL** fine SAND, little fine gravel, trace fill debris, (7.5YR 4/3) dry brown, medium dense, dry, slight fuel oil-like odor and NFS-PDI-CC15B-4.0-4.5 staining. 0.0 moist **FILL** SILT, (7.5YR 4/3) brown, soft, moist, no odor, no staining. NFS-PDI-CC15B-6.0-6.5 FILL fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet wet, no odor, no staining, water at 6.5 feet. 5 NFS-PDI-CC15B-8.0-8.5 NFS-PDI-CC15B-8.5-9.0 NFS-PDI-CC15B-9.0-9.5 SM fine to medium silty SAND, (5YR 4/4) reddish brown, wet medium dense, wet, no odor, no staining. Soils consistent NFS-PDI-CC15B-10.0-10.5 0.0 SM wet fine SAND, some fine gravel, little silt, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 12 NFS-PDI-CC15B-12.0-12.5 5 13 NFS-PDI-CC15B-14.0-14.5 0.0 SP fine to medium SAND, little fine to medium gravel, (5YR 4/4) wet reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 16 NFS-PDI-CC15B-16.0-16.5 5 NFS-PDI-CC15B-18.0-18.5 19 NFS-PDI-CC15B-20.0-20.5 0.0 1 -21

2015-09 RA PPG LOGS PM PPG LOG

A.GDT - 12/7/16 23:

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

Boring ID: NFS-PDI-DD11BR

	732.564.32	00 office t	telephone						rage.
Project	Name: P	PG Gar	field Ave			Drill	ing Company: SGS North America		
	Number:						ing Method: direct push	Coordinates (NJSPNA	
			/13/2017 9				Type:	Coordinates (NJSPNAI	
			2/13/2017	11:15	5:00 AM		e Size: 2.0 in	Boring Total Depth: 2	21 ft
	By: E. A		ıal Forros	+ C+ D	roperties - :		ect Manager: Scott Mikaelian	Depth to Water: 4.0 Surface Elevation: 7.	Q ff NIA\/\(\sigma\)QQ
	ii Locatioi	I. ACIL	Jai - FOITES	SUSUE	operiles	Juppieiii		Surface Elevation. 7.	8 IL NAVDOS
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID
		0.0		1 (ONCRET		CONCRETE, no odor, no staining.		
 - 2	3.5		dry	3	FILL		fine to medium GRAVEL, (5YR 4/1) no odor, no staining.	dark gray, dense, dry,	
				1 (CONCRET		CONCRETE, no odor, no staining.		
3			moist	3	FILL		fine to medium SAND, some silt, trac 3/2) dark brown, medium dense, moi staining.		NFS-PDI-DD11BR-2.5-3.0
				NR	NR		NO RECOVERY		
— 4 — – – — 5 —		0.0	moist	3	FILL		fine SAND, little silt, trace fine gravel medium dense, moist, no odor, no st feet.		NFS-PDI-DD11BR-4.0-4.5
	,					\bowtie			NFS-PDI-DD11BR-5.5-6.0
6 7 7	4		wet	10	SM		fine SAND, some silt, trace fine grave medium dense, wet, no odor, no stail with UNDno.		NFS-PDI-DD11BR-6.0-6.5
8 9		0.0							NFS-PDI-DD11BR-8.0-8.5
10 11	4								NFS-PDI-DD11BR-10.0-10.5
—11— – – —12—		0.0	dry to moist	10	SM		fine silty SAND, (7.5YR 4/2) brown, i moist, no odor, no staining. Soils con		NFS-PDI-DD11BR-12.0-12.5
 13 	4								
14 15 	4								NFS-PDI-DD11BR-14.0-14.5
—16— – – —17— – –		0.0							NFS-PDI-DD11BR-16.0-16.5
—18— – – —19— – –	4								NFS-PDI-DD11BR-18.0-18.5
20 21	1	0.0							NFS-PDI-DD11BR-20.0-20.5
	ow surface (COPR - chro			ng residu	e UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native depo	deposits MGP - manufa	ctured gas plant nate chemical production waste
						o be 1 ft thick	No COPR or GGM present in any interval of this boring.		•

PPG - 2012-09 RA PPG_LOGS_A.GDT - 3/21/17 09:48

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

Project Number: 60240739

Boring ID: NFS-PDI-DD14B

Page: 1

Drilling Company: SGS North America 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

	By: E. A						ect Manager: Scott Mikaelian	Depth to Water: 3.0	
	I Location		ıal - Forres	t St Pr	operties -			Surface Elevation: 3.5	ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Th	nickness:	Sample ID
		0.0		1 (ONCRET	2 4 F	CONCRETE, no odor, no staining.		
-			dry	3	FILL	\bowtie	fine to medium GRAVEL, (5YR 4/1)	dark gray, dense, dry,	
1 —				1 (ONCRET		no odor, no staining. CONCRETE, no odor, no staining.		
2 — —	3						CONCRETE, NO OUG, NO Staining.		
з —		0.0		40	014		fine all CAND transfine many 1 (7	EVD 4/0) harrows	NFS-PDI-DD14B-3.0-3.
4	,	0.0	wet	10	SM		fine silty SAND, trace fine gravel, (7. medium dense, wet, no odor, no stai Soils consistent with UNDno.	ining, water at 3.0 feet.	
5 —	4		wet	14	ML		SILT, little fine sand, (7.5YR 4/2) brono staining. Soils consistent with UN	own, soft, wet, no odor, IDno.	NFS-PDI-DD14B-5.0-5.
6 —			wet	10	SM		fine silty SAND, (7.5YR 4/3) brown, odor, no staining. Soils consistent wi	medium dense, wet, no ith UNDno.	
7 8 		0.0							NFS-PDI-DD14B-7.0-7.
9 — - 10—	4								NFS-PDI-DD14B-9.0-9
1		0.0							NFS-PDI-DD14B-11.0-1
- 2 	3								
3 - 4									NFS-PDI-DD14B-13.0-1
•									
	ow surface (grade (COPR - chro	omite o	re processi	ng residu	e UNDno - non-organic undisturbed native	deposits MGP - manufac	ctured gas plant
	adow mat		GGM - greer btain best recove			be 1 ft thick	UNDorg - organic undisturbed native deposits No COPR or GGM present in any interval of this boring.	osits CCPW - chrom	ate chemical production v

A.GDT - 12/7/16 23:

LOGS

RA PPG

2012-09

732.564.3200 office telephone

Boring ID: NFS-PDI-EE15B

30 Knightsbridge Road, Piscataway, NJ 08854

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 Depth to Water: 10.5 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 11.0 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) NFS-PDI-EE15B-0.0-0.5 0.0 3 **FILL** fine to medium GRAVEL, little asphalt millings and fine dry sand, (7.5YR 4/2) brown, medium dense, dry, no odor, no dry 3 FILL staining. 3 **FILL** fine to medium SAND, some fine gravel, (5Y 5/1) gray, moist medium dense, dry, no odor, no staining. fine to medium SAND, some fill debris, trace ash, (7.5YR NFS-PDI-EE15B-2.0-2.5 3 **FILL** dry 3/3) dark brown, medium dense, moist, no odor, no 5 staining. ASPHALT MILLINGS, some fill debris, little ash, (5YR 2.5/1) black, medium dense, dry, no odor, no staining. 3 **FILL** fine to medium SAND, some fill debris, (7.5YR 4/3) brown, moist medium dense, moist, no odor, no staining. NFS-PDI-EE15B-4.0-4.5 0.0 3 FILL SILT, little fine sand, (7.5YR 4/3) brown, soft, moist, no moist odor, no staining. NFS-PDI-EE15B-6.0-6.5 3.5 3 **FILL** fine SAND, little silt and fine gravel, (5YR 4/4) reddish moist brown, medium dense, moist, no odor, no staining. NFS-PDI-EE15B-8.0-8.5 NR NR NO RECOVERY 10 NFS-PDI-EE15B-10.0-10.5 0.0 FILL fine silty SAND, some fine gravel, (7.5YR 4/1) dark gray, moist 3 medium dense, moist, no odor, no staining. wet 3 **FILL** fine silty SAND, little fine gravel, (5YR 4/3) reddish brown, dense, wet, no odor, no staining, water at 10.5 feet. NFS-PDI-EE15B-11.5-12.0 12-NFS-PDI-EE15B-12.0-12.5 fine to medium SAND, some fine gravel, little silt, (5YR 4/4) 10 SP wet 5 reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 13-NFS-PDI-EE15B-14.0-14.5 0.0 10 SP fine to coarse SAND, some fine to medium gravel, (5YR wet 4/4) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 16 NFS-PDI-EE15B-16.0-16.5 5 NFS-PDI-EE15B-18.0-18.5 19 NFS-PDI-EE15B-20.0-20.5 0.0 1 -21 bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste nts: 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

Boring ID: NFS-PDI-EE16B

Page: 1

	ıame: Pi lumber:		field Ave 739				ng Company: SGS North America ng Method: Direct Push	Coordinates (NJSPNAD8	3) x: 611928.2
			/8/2016 8:0			Rig T		Coordinates (NJSPNAD83	
		lling:	9/8/2016 8	3:20:00	AM		Size: 3.0 in	Boring Total Depth: 15 f	t
	By: ES						ect Manager: Scott Mikaelian	Depth to Water: 6	
nysical	Location	: Actu	al - Forres	t St Pro	operties -	PDI		Surface Elevation: 10.9	ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Tr	ickness:	Sample ID
		58	dry	3	FILL		FILL STONE, loose, dry, no odor, no	staining.	
7			dry		ONCRET		Concrete Slab	511 11 1 (7.5) (7.5)	NFS-PDI-EE16B-0.5-1.0
1-				3	FILL		fine to medium SAND, little ash, trac 4/3) brown, medium dense, dry, no c		
-3-	3.5		moist	3	FILL		fine to medium SAND, some cinders brown, medium dense, moist, moder black staining.		
4 —				NR	NR		NO RECOVERY		
5		92.7	moist	3	FILL		fine to medium SAND, little cinders, brown, medium dense, moist, no odd	or, no staining.	
7 —	5		wet	3	FILL		SILT, (5Y 5/1) gray, medium dense, odor, product staining, sheen water a		
9 —			wet	3	FILL		fine silty SAND, little fine gravel, (5Y) brown, medium dense, wet, no odor,		
10		0.0	wet	3	FILL		fine silty SAND, little fine gravel, (5Yl brown, medium dense, wet, no odor,		NFS-PDI-EE16B-11.0-11.5
- 12— - 13— - 14—	5		wet	10	SP	××××	fine to coarse SAND, some fine to m 3/3) dark reddish brown, medium der staining. Soils consistent with UNDn	nse, wet, no odor, no	NFS-PDI-EE16B-11.5-12.0
15									

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/7/16 23:37

Boring ID: NFS-PDI-EE16B-SS

Project Name: _PPG_Garfield Ave
Project Number: 60240739
Date Started Drilling: 9/8/2016 8:40:00 AM
Core Size: 3.0 in Boring Total Depth: 0.5 ft Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Depth to Water: NA Surface Elevation: 10.8 ft NAVD88 Sample ID NFS-PDI-EE16B-SS-0.0-0.5 NFS-PDI-EE16B-SS-0.0-0.5
Project Manager: Scott Mikaelian Depth to Water: NA
Actual - Forrest St Properties - PDI Surface Elevation: 10.8 ft NAVD88 Content Recovery (ft/ft) (ppm) Moisture (Content Class USCS Graphic Log Surface Cover and Thickness: Sample ID O.5 O.0 dry 3 FILL fine to medium GRAVEL, some fine to medium sand, (7.5YR 4/3) brown, medium dense, dry, no odor, no
Recovery (ft/ft) PID Moisture (ppm) Moisture (ppm) Moisture (ppm) Content Class USCS Graphic Log Surface Cover and Thickness: 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
Range ft bgs)
(7.5YR 4/3) brown, medium dense, dry, no odor, no
(7.5YR 4/3) brown, medium dense, dry, no odor, no

PPG - 2012-09 RA PPG_LOGS_A.GDT - 12/7/16 23:37

MM - meadow mat

COPR - Critorinite ore processing residue

UNDorg - organic undisturbed native deposits

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. MM - meadow mat

CCPW - chromate chemical production waste

99

A.GDT - 3/21/17

LOGS

RA PPG

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-EE17B

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 Depth to Water: 5.5 Logged By: E. Asc Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - Supplemental PDI Surface Elevation: 11.9 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 3 **FILL** fine to medium SAND, trace fine to medium gravel, (7.5YR dry 4/2) brown, medium dense, dry, no odor, no staining. NFS-PDI-EE17B-0.5-1.0 **FILL** fine to medium SAND, little silt, trace medium gravel and fill dry 3 debris, (7.5YR 3/2) dark brown, medium dense, dry to moist, no odor, no staining. moist NFS-PDI-EE17B-2.0-2.5 5 NFS-PDI-EE17B-4.0-4.5 **FILL** moist 3 fine to medium GRAVEL, trace fine sand and fill debris, (7.5YR 4/2) brown, medium dense, moist to wet, no odor, to 0.0 wet no staining. 3 **FILL** fine SAND, some silt, trace fine gravel, (7.5YR 4/2) brown, moist medium dense, moist to wet, no odor, no staining, water at NFS-PDI-EE17B-6.0-6.5 to wet NES-PDI-EE17B-6.5-7.0 14 ML SILT, trace fine sand, (7.5YR 6/1) gray, soft, moist, no moist odor, no staining. Soils consistent with UNDno. 5 NFS-PDI-EE17B-8.0-8.5 SILT, trace fine sand, (5YR 7/1) light gray, soft, moist, no moist 14 ML odor, no staining. Soils consistent with UNDno. 10 NFS-PDI-EE17B-10.0-10.5 0.0 10 SM fine silty SAND, (5YR 5/4) reddish brown, medium dense, moist moist, no odor, no staining. Soils consistent with UNDno. 12-NFS-PDI-EE17B-12.0-12.5 SM fine silty SAND, trace fine gravel, (5YR 4/3) reddish brown, moist 10 5 medium dense, moist, no odor, no staining. Soils consistent with UNDno. 13-NFS-PDI-EE17B-14.0-14.5 0.0 10 SP fine to medium SAND, trace fine to medium gravel, (7.5YR moist 4/2) brown, dense, moist, no odor, no staining. Soils consistent with UNDno. 16 NFS-PDI-EE17B-16.0-16.5 5 NFS-PDI-EE17B-18.0-18.5 19 NFS-PDI-EE17B-20.0-20.5 0.0 1 -21 Notes: bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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

Boring ID: NFS-PDI-GG15B

Page: 1

Project Name: PFG Garfield Ave Diffling Gompany: AECOM project Number: 60249739 Date Started Drilling: 8302071 9:10:00 AM Rig Type: Coordinates (NJSPNAD83) y: 611974.9 Date Finished Drilling: 8302071 70:10:00 AM Rig Type: Description of Project Manager: Description of Type Core Size: 3.0 in Boring Total Depth: 42.0 Days of Project Manager: Depth to Water: Project Manager: Depth to Water: 12.1 ft NAVD88 Depth (ft Dipph) (Ft Dipph) (Rose)		732.564.32	200 office t	elepnone						
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 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. NFS-PDI-GG158-1: NFS-PDI-GG158-2: NFS-PDI-GG158-3: NFS-PDI-GG158-3: Moist, no odor, no staining.										
Date Finished Drilling: 8/30/2017 10:10:00 AM	Projec	t Number:	60240	739						
Project Manager: Surface Elevation: 12.1 ft NAVD88	Date S	tarted Drill	ing: 8	/30/2017 9	10:00) AM				
Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 12.1 ft NAVD88 Depth Range (ff bgs) Recovery (ff/ft) PID (ppm) Moisture Content Class USCS Graphic Log Surface Cover and Thickness: Sample ID 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. NFS-PDI-GG158-1.7 - 1 0.0 NFS-PDI-GG158-2.7 NFS-PDI-GG158-2.7 NFS-PDI-GG158-2.7 NFS-PDI-GG158-3.7 NFS-PDI-GG158-3.7 NFS-PDI-GG158-3.7 moist, no odor, no staining. NFS-PDI-GG158-3.7					10:10	:UU AIVI				4.2 π
Depth Range (ft / ft)					st St F	Properties		ct Manager.		2 1 ft NAVD88
Range (ft bgs) (ft/ft) (ppm) Content Class USCS Class USCS Surface Cover and Thickness: 1	_		1. 7.00	dai - i oire.	1	Topcitics			Odriace Lievation.	Z.TICNAVBOO
black, medium dense, dry, no odor, no staining. 1	Range	/#/#\	PID (ppm)	Moisture Content		USCS		Surface Cover and	Thickness:	
NFS-PDI-GG15B-1: NFS-PDI-GG15B-2: NFS-PDI-GG15B-2: NFS-PDI-GG15B-2: NFS-PDI-GG15B-2: NFS-PDI-GG15B-2: NFS-PDI-GG15B-3: NFS-PDI-GG15B-3:	 1-			dry	3	FILL		ASH, trace coal, concrete and fil black, medium dense, dry, no oc	ll debris, (5YR 2.5/1) dor, no staining.	
NFS-PDI-GG15B-2:2 NFS-PDI-GG15B-2:3 NFS-PDI-GG15B-2:3 NFS-PDI-GG15B-2:3 NFS-PDI-GG15B-2:3 NFS-PDI-GG15B-3:3 NFS-PDI-GG15B-3:3 NFS-PDI-GG15B-3:3		1 '								NES-PDI-GG15B-1 7-2 2
NFS-PDI-GG15B-2.2 NFS-PDI-GG15B-2.2 NFS-PDI-GG15B-2.2 NFS-PDI-GG15B-3.2 NFS-PDI-GG15B-3.2 NFS-PDI-GG15B-3.2 NFS-PDI-GG15B-3.2	—2—	4	0.0							
- 1.2 moist 3 FILL SILT, little fine to medium sand, (7.5YR 4/3) brown, firm, MFS-PDI-GG15B-3.2 moist, no odor, no staining.		1								
- 1.2 moist 3 FILL SILT, little fine to medium sand, (7.5YR 4/3) brown, firm, moist, no odor, no staining.	— 3 —		0.0							
	4	1.2	0.0	moist	3	FILL		SILT, little fine to medium sand, moist, no odor, no staining.	(7.5YR 4/3) brown, firm,	NFS-PDI-GG15B-3.2-3.7
Notes: Sign - below surface grade	bgs - be			COPR - chro	emite or	e processir	ng residue	UNDno - non-organic undisturbed native	deposits MGP - manufa	octured gas plant

PPG - 2012-09 RA PPG_LOGS_A.GDT - 10/18/17 16:28

AECOM

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-GG16B

Page: 1

732.564.3200 office telephone

Project Name:PPG Garfield AveDrilling Company:AECOMProject Number:60240739Drilling Method:HAND AUGERCoordinates (NJSPNAD83) x:611981.3Date Started Drilling:8/30/2017 10:40:00 AMRig Type:Coordinates (NJSPNAD83) y:683627

Date St	arted Drill	ing: 8	/30/2017 1	0:40:0	00 AM	R	Rig Type:		Coordinates (NJSPNA	D83) y: 683627
			8/30/2017	11:10	:00 AM	C	Core Size: 3.0 in		Boring Total Depth: 4	4.6 ft
Logged	IBy: Ron	Kantor	<u> </u>	-+ 0+ 0	\	P	Project Manager:		Depth to Water:	2.4.5.1000
			ual - Forres	St St P	roperties	<u>- PDI</u>)I		Surface Elevation: 12	2.4 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Grap Lo	phic Surface Cove	er and Th	ickness:	Sample ID
 1	1	0.0	dry	3	FILL		ASH, trace coal and fill det medium dense, dry, no odd	bris, (5YF or, no sta	R 2.5/1) black, aining.	
2	1	0.0	_							NFS-PDI-GG16B-2.1-2.6
	'						\bigotimes			NFS-PDI-GG16B-2.6-3.1
3		0.0					\bowtie			NFS-PDI-GG16B-3.1-3.6
- 4 - 4	1.6		moist	3	FILL		SILT, little fine to medium moist, no odor, no staining		5YR 4/3) brown, firm,	NFS-PDI-GG16B-3.6-4.1
Notes:										

bgs - below surface grade COPR - MM - meadow mat GGM -

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

Boring ID: NFS-PDI-X12B

Page: 1

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 Boring Total Depth: 15 ft Date Finished Drilling: 8/25/2016 11:40:00 AM Core Size: 3.0 in

ysica	I Location	n: Actu	ial - Forres	t St Pr	operties -	PDI		Surface Elevation: 1	U.Z IL NAVDOO
epth nge ogs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thi	ckness:	Sample ID
1 — 2 —	4	0.0	dry	3	FILL		fine to medium SAND, some fine grave 4/3) brown, medium dense, dry, no oc	rel, little ash, (7.5YR dor, no staining.	
- 3 — -	,		dry to moist	3	FILL		CINDERS, some ash, (5Y 3/1) very d moist, no odor, no staining.		
, –				NR	NR		NO RECOVERY		
5 — - 6 — - 7 —	5	0.0	wet	3	FILL		CINDERS, (5Y 2.5/1) black, loose, we staining, water at 5.0 feet.	et, MGP-like odor, no	
3	3		wet	3	FILL		fine silty SAND, (5YR 4/4) reddish browet, no odor, no staining.	own, medium dense,	NEC DDI VAOD 0 0 0
_			wet	3	FILL		SILT, trace fine sand, (5YR 4/3) redding odor, no staining.	sh brown, soft, wet,	NFS-PDI-X12B-8.0-8 NFS-PDI-X12B-8.5-9
-			slightly	7	PT	<u> </u>	PEAT (degraded vegetated material).	75% organic fibers,	NFS-PDI-X12B-9.0-9
0— 1— 2—		0.0	moist moist	9	OL		25% organic silt, (5YR 3/3) dark reddi stiff, slightly moist, no odor, no stainin with MM. Organic SILT, 90% organic silt, 10% of 6/4) light brown, soft, moist, no odor, consistent with UNDno.	g. Soils consistent prganic fibers, (7.5YR	NFS-PDI-X12B-9.5-10
_	4.5								
3 4			dry	10	SP		fine to medium SAND, little fine grave brown, dense, dry, no odor, no stainin with UNDno.		
5				NR	NR		NO RECOVERY		
es:									
- belo	ow surface (adow mat		OPR - chro			ng residue	UNDno - non-organic undisturbed native de UNDorg - organic undisturbed native depos	eposits MGP - manuf	actured gas plant mate chemical production v

Boring ID: NFS-PDI-X13B

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

Project Manager: Scott Mikaelian Logged By: Eric Stone Depth to Water: 5 Surface Elevation: 7.4 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID. (ppm) Log (ft bgs) 0 CONCRETE Concrete and gravel sub-base, no odor, no staining. **FILL** fine to medium silty SAND, little cinders, trace wood, moist 3 (7.5YR 2.5/2) very dark brown, medium dense, moist, no odor, no staining. 5 fine silty SAND, little fine gravel, (5YR 6/3) light reddish 3 **FILL** wet brown, medium dense, wet, no odor, slight black staining at 4.8 feet. NFS-PDI-X13B-4.5-5.0 NFS-PDI-X13B-5.0-5.5 0 8 SM fine silty SAND, trace organics, (7.5YR 6/4) light brown, wet medium dense, wet, no odor, no staining, water at 5.0 feet. Soils consistent with UNDno. 5 0 10 SP fine to coarse SAND, some medium gravel, (5YR 4/3) wet reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 5 NFS-PDI-X13B-14.5-15.0 NES-PDI-X13B-15 0-15 5 0 10 SP fine to coarse SAND, some medium gravel, (5YR 4/3) wet reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno. 16 19 20

Notes:

A.GDT - 12/7/16 23:

2012-09 RA PPG LOGS

bgs - below surface grade MM - meadow mat

COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

ents: 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

A E C O M

Boring ID: NFS-PDI-X14B

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone Page: 1 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 Depth to Water: 12 Logged By: KW Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 17.47 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 ASPHAL₁ Asphalt and gravel sub-base NFS-PDI-X14B-0.2-0.7 dry fine to medium silty SAND, little fill debris, (5YR 3/3) dark FILL reddish brown, medium dense, dry to moist no odor no NFS-PDI-X14B-2.0-2.5 5 NFS-PDI-X14B-4.0-4.5 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 4 NFS-PDI-X14B-8.0-8.5 NR No Recovery NES-PDI-X14B-10 0-10 5 0.0 fine to medium silty SAND, some medium to coarse gravel, FILL moist little fill debris, (7.5YR 3/3) dark brown, medium dense, moist to wet no odor no staining, water at 12.0 feet 12 NFS-PDI-X14B-12.0-12.5 4.5 13 NFS-PDI-X14B-14.0-14.5 NR No Recovery NFS-PDI-X14B-15.0-15.5 0.0 FILL fine to medium silty SAND, some fine to coarse gravel, (5YR moist 4/4) reddish brown, dense, moist no odor no staining NES-PDI-X14B-15 5-16 0 ML moist SILT, little fine sand, trace organics, (5YR 5/1) gray, stiff, 16 NFS-PDI-X14B-16.0-16.5 moist no odor no staining. Soils consistent with UNDno. 5 NFS-PDI-X14B-18.0-18.5 19 SP fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) moist reddish brown, loose, moist no odor no staining. Soils consistent with UNDno. NFS-PDI-X14B-20.0-20.5 0.0 SP fine to coarse SAND, trace fine to medium gravel, (5YR 4/4) moist 1 reddish brown, loose, moist no odor no staining. Soils consistent with UNDno. -21

Notes

A.GDT - 12/7/16 23:

2012-09 RA PPG LOGS

bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits

MGP - manufactured gas plant CCPW - chromate chemical production waste

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

Boring ID: NFS-PDI-X14BR

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 Depth to Water: 4.0 Logged By: R. Kantor Project Manager: Scott Mikaelian Physical Location: Actual - Forrest St Properties - Supplemental PDI Surface Elevation: 10.3 ft NAVD88 Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID (ppm) Log (ft bgs) 0.0 CONCRETE 1 CONCRETE, no odor, no staining. NFS-PDI-X14BR-0.5-1.0 **FILL** fine silty SAND, some ash, little concrete, (7.5YR 3/2) dark 3 brown, medium dense, no odor, no staining, water at 4.0 NFS-PDI-X14BR-2.0-2.5 5 NFS-PDI-X14BR-4.0-4.5 3.2 NFS-PDI-X14BR-6.0-6.5 **FILL** wet 3 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. 5 NFS-PDI-X14BR-8.0-8.5 10 NFS-PDI-X14BR-10.0-10.5 0.0 3 FILL SILT, trace fine sand, (5YR 3/1) very dark gray, soft, wet, wet no odor, no staining. 3 FILL SILT, trace fine sand and fine to medium gravel, (5YR 6/3) wet light reddish brown, soft, wet, no odor, no staining. NFS-PDI-X14BR-11.5-12.0 12-NFS-PDI-X14BR-12.0-12.5 9 ML SILT, trace fine sand and clay, (5YR 7/1) light gray, stiff, moist 5 moist, no odor, no staining. Soils consistent with UNDno. NFS-PDI-X14BR-14.0-14.5 SP wet 10 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. 0.0 16 NFS-PDI-X14BR-16.0-16.5 NFS-PDI-X14BR-18.0-18.5 19 NFS-PDI-X14BR-20.0-20.5 0.0 1 -21

2012-09

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A.GDT - 3/21/17

RA PPG LOGS

ents: 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

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: NFS-PDI-X15B

732.564.3200 office telephone

Page: 1 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 Project Manager: Scott Mikaelian Depth to Water: 7.5 Logged By: KW Physical Location: Actual - Forrest St Properties - PDI Surface Elevation: 19.85 ft NAVD88 Depth Recovery PID Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range ΙĎ (ft/ft) (ppm) Content Log (ft bgs) 0.0 ASPHAL₁ ASPHALT NFS-PDI-X15B-0.2-0.7 dry fine to coarse SAND, little fine gravel, trace fill debris, FILL dry FILL (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 moist brown, medium dense, dry to moist, no odor, no staining. NFS-PDI-X15B-2.0-2.5 4.5 NFS-PDI-X15B-4.0-4.5 NR No Recovery 0.0 moist **FILL** fine to coarse SAND, little fine to coarse gravel, trace silt and fill debris, (5YR 4/4) reddish brown, medium dense, moist to to wet wet, no odor, no staining, water at 7.5 feet. NFS-PDI-X15B-6.0-6.5 4 NFS-PDI-X15B-8.0-8.5 NR No Recovery NES-PDI-X15B-10 0-10 5 0.0 FILL wet fine to coarse SAND, some rock fragments, trace fill debris, (7.5YR 3/3) dark brown, loose, wet, no odor, no staining. 12 NFS-PDI-X15B-12.0-12.5 FILL fine to medium silty SAND, little rock fragments trace fill 4.5 debris, (5YR 4/4) reddish brown, dense, wet, no odor, no 13 NFS-PDI-X15B-14.0-14.5 NR No Recovery 0.0 FILL fine to coarse silty SAND, little rock fragments, trace fill wet debris, (5YR 4/4) reddish brown, medium dense, wet, no odor, no staining. 16 NFS-PDI-X15B-16.0-16.5 5 NFS-PDI-X15B-17.5-18.0 NFS-PDI-X15B-18.0-18.5 moist ML SILT, trace organics, (7.5YR 5/3) brown, dense, moist, no odor, no staining. Soils consistent with UNDno. 19 NFS-PDI-X15B-20.0-20.5 0.0 1 -21 bgs - below surface grade COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits MM - meadow mat GGM - green grey mud UNDorg - organic undisturbed native deposits

2012-09 RA PPG LOGS

A.GDT - 12/7/16 23:

nts: 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.

MGP - manufactured gas plant CCPW - chromate chemical production waste

30 Knightsbridge Road, Piscataway, NJ 08854

Boring ID: NFS-PDI-Y13B

732.564.3200 office telephone 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 Depth to Water: 6.5 Logged By: Eric Stone Project Manager: Scott Mikaelian Surface Elevation: 9.9 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID. (ppm) Log (ft bgs) CONCRETE 0.0 CONCRETE NFS-PDI-Y13B-1.0-1.5 **FILL** fine to medium silty SAND, some fine gravel, little fill debris, moist 3 (5YR 4/4) reddish brown, medium dense, moist, no odor, no staining. NFS-PDI-Y13B-2.0-2.5 5 FILL Concrete debris, no odor, no staining. 1 NFS-PDI-Y13B-4.0-4.5 moist 3 FILL fine to medium SAND, some wood, little medium gravel, (5YR 2.5/1) black, medium dense, moist, no odor, no staining. 0.0 3 FILL moist fine SAND, some silt, (7.5YR 3/3) dark brown, medium dense, moist, no odor, no staining. NFS-PDI-Y13B-6.0-6.5 FILL fine silty SAND, little fine gravel, trace wood (5YR 4/4) wet 3 reddish brown, loose, wet, no odor, no staining, water at 6.5 5 NFS-PDI-Y13B-8.0-8.5 NFS-PDI-Y13B-8.5-9.0 SILT, (7.5YR 6/4) light brown, soft, wet, no odor, no 9 MI wet staining. Soils consistent with UNDno. 10 NES-PDI-Y13B-10 0-10 5 0.0 SILT, some fine sand, (7.5YR 6/3) light brown, dense, moist 9 MI moist, no odor, iron staining. Soils consistent with UNDno. 12-NFS-PDI-Y13B-12.0-12.5 10 SM fine silty SAND, (5YR 4/4) reddish brown, medium dense, wet 4.5 wet, no odor, no staining. Soils consistent with UNDno. 13 SP fine to coarse SAND, some medium to coarse gravel, (5YR 10 wet 4/4) reddish brown, medium dense, wet, no odor, no NFS-PDI-Y13B-14.0-14.5 staining. Soils consistent with UNDno. NR NR NO RECOVERY 0.0 10 SP fine to coarse SAND, some medium to coarse gravel, (5YR wet 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno. 16 NFS-PDI-Y13B-16.0-16.5 5 A.GDT - 12/7/16 23: NFS-PDI-Y13B-18.0-18.5 19 NFS-PDI-Y13B-20.0-20.5 0.0 10 SP fine to coarse SAND, some medium to coarse gravel, (5YR LOGS 1 4/4) reddish brown, dense, wet, no odor, no staining. Soils consistent with UNDno. -21 RA PPG

2012-09

bgs - below surface grade COPR - chromite ore processing residue MM - meadow mat GGM - green grey mud

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

MGP - manufactured gas plant CCPW - chromate chemical production waste

ents: 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.

732.564.3200 office telephone

Boring ID: NFS-PDI-Z12B

Page: 1

30 Knightsbridge Road, Piscataway, NJ 08854

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 Depth to Water: 8.0 Logged By: E. Asc Project Manager: Scott Mikaelian

	By: E.A		.al Famaa	+ C+ D-			ct Manager: Scott Mikaelian	Depth to Water: 8.0	2 C # NAV/D00
nysica	I Location	i: Actu	iai - Forres	t St Pr	operties -	Suppleme	ntai PDI	Surface Elevation: 13	3.6 π NAVD88
Depth Range It bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cov	er and Thickness:	Sample ID
_ -1		0.0		1 (ONCRET		CONCRETE, no odor no st	aining	
,]	3		dry	3	FILL) dark gray, medium dense, dry,	
			dry	3	FILL		no odor, no staining. CINDERS, little fine sand, t dry, no odor, no staining.	race ash, (5Y 5/1) gray, loose,	NFS-PDI-Z12B-2.0-2.5
-3				NR	NR		NO RECOVERY		
-4 - -5 		0.0	dry	3	FILL		CINDERS, trace fine sand, gray, loose, dry, no odor, no	ash and fill debris, (7.5YR 6/1) o staining.	NFS-PDI-Z12B-4.0-4.5
-6-	2.5		dry	3	FILL		fine SAND, little silt, trace f 4/2) brown, medium dense	ine to medium gravel, (7.5YR , dry, no odor, no staining.	NFS-PDI-Z12B-6.0-6.5
-7—				NR	NR		NO RECOVERY		
-8 -		0.0	wet	3	FILL		fine to medium SAND, little cinders, (5YR 4/1) dark gra	fine to medium gravel, trace	NFS-PDI-Z12B-8.0-8.5 NFS-PDI-Z12B-8.5-9.0
9 —			moist	14	ML		staining, water at 8.0 feet. SILT, trace fine sand, (5YR	8 6/1) gray, soft, moist, no odor,	NFS-PDI-Z12B-9.0-9.5
-10 -11	3.5						no staining. Soils consisten	t with GNDHO.	NFS-PDI-Z12B-10.0-10.5
-12				NR	NR		NO RECOVERY		
-13		0.0	moist	10	SP		moist, no odor, no staining.	R 4/2) brown, medium dense, Soils consistent with UNDno.	NFS-PDI-Z12B-12.0-12.5
-14	4		moist	10	SM			i) light brown, medium dense, Soils consistent with UNDno.	150 50 500 440 440
_ -15 									NFS-PDI-Z12B-14.0-14.5
-16 - -17		0.0							NFS-PDI-Z12B-16.0-16.8
18— — 19—	4		wet	10	SP		fine to medium SAND, trac 4/3) reddish brown, mediur staining. Soils consistent w		NFS-PDI-Z12B-18.0-18.5
-20 - -21	1	0.0							NFS-PDI-Z12B-20.0-20.5
otes: gs - belo 1M - mea	ow surface (adow mat	(3GM - greer	n grey r	nud		UNDno - non-organic undisturb UNDorg - organic undisturbed r) No COPR or GGM present in any interval of this	native deposits CCPW - chror	nctured gas plant nate chemical production wa

A.GDT - 12/7/16 23:

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-Z13B

Page: 1

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 Depth to Water: 4 Logged By: ES Project Manager: Scott Mikaelian Surface Elevation: 10.6 ft NAVD88 Physical Location: Actual - Forrest St Properties - PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID. (ppm) Log (ft bgs) 0.0 CONCRETE 1 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. **FILL** moist 3 fine silty SAND, trace fine gravel, (7.5YR 4/3) brown, to medium dense, moist to wet, no odor, no staining. wet 5 NFS-PDI-Z13B-4.0-4.5 3 FILL fine to medium SAND, little ash, (5YR 2.5/1) black, medium wet dense, wet, no odor, no staining, water at 4.0 feet. 0.0 3 FILL SILT, trace ash, (2.5Y 4/2) dark grayish brown, soft, wet, no wet odor, no staining. NFS-PDI-Z13B-6.0-6.5 5 NFS-PDI-Z13B-8.0-8.5 FILL 3 SILT, little fine sand, (7.5YR 3/4) dark brown, soft, wet, no wet odor, no staining. fine silty SAND, (2.5Y 5/2) grayish brown, medium dense, wet 3 FILL 10 wet, no odor, no staining. NES-PDI-713B-10 0-10 5 0.0 NFS-PDI-Z13B-10.5-11.0 NFS-PDI-Z13B-11.0-11.5 10 SM fine to medium silty SAND, trace fine gravel, (5YR 4/4) wet reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 12-NFS-PDI-Z13B-12.0-12.5 SM fine silty SAND, some fine gravel, (2.5Y 5/2) grayish brown, wet 8 5 medium dense, wet, no odor, no staining. Soils consistent with UNDno. 13-SP wet 10 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 0.0 16 NFS-PDI-Z13B-16.0-16.5 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. 5 NFS-PDI-Z13B-18.0-18.5 19 NES-PDI-713B-20 0-20 5 0.0 1 -21 Notes: bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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

Boring ID: NFS-PDI-Z14B

Page: 1

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

	By: R.K		ıol Forros	+ C+ D	onortico		ect Manager: Scott Mikaelian	Depth to Water: 5.0 Surface Elevation: 10.	E # NAV/DOO
	I Location	ı. ACIL	iai - FOFFES	o o Pr	operiles -	Suppleme	HIGH FUI	Juliace Elevation: 10.	O IL INAVDOO
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thi	ckness:	Sample ID
_		234		1 (ONCRET		CONCRETE, no odor, no staining.		
·1— –			dry	3	FILL		fine SAND, little ash, (7.5YR 6/3) ligh dense, dry, no odor, no staining.	t brown, medium	NFS-PDI-Z14B-1.0-1.5
-2 — -3 —	5		moist	3	FILL		ASH, some cinders, trace medium to wood, (7.5YR 2.5/2) very dark brown, fuel oil-like odor, no staining.		NFS-PDI-Z14B-3.0-3.5
4 —									N 01 B/214B 0.0 0.0
5 —		0.0	moist	3 FILL SILT, trace fine sand, (10YR 5/2) grayish brown, firm no odor no staining, water at 5.0 feet	yish brown, firm, moist	NFS-PDI-Z14B-5.0-5.5			
6 —									NFS-PDI-Z14B-6.5-7.0
7 —	5		moist 9	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
8 —							•		NFS-PDI-Z14B-8.0-8.5
9 —			moist	14	ML		SILT, trace fine sand, (7.5YR 4/2) bro odor, no staining. Soils consistent wit		
10 - 11		0.0							NFS-PDI-Z14B-10.0-10.5
12 	5		moist	9	ML		SILT, trace clay, (5YR 5/1) gray, stiff, staining. Soils consistent with UNDno	moist, no odor, no	NFS-PDI-Z14B-12.0-12.
13 - 14			wet	10	SP		fine to coarse SAND, little fine to coar (5YR 4/3) reddish brown, medium de staining. Soils consistent with UNDno	nse, wet, no odor, no	
- 15 		0.0					-		NFS-PDI-Z14B-14.0-14.5
_ 16 		0.0							NFS-PDI-Z14B-16.0-16.5
17 	5								
18—									NFS-PDI-Z14B-18.0-18.5
19— — 20—		0.0							NFS-PDI-Z14B-20.0-20.\$
_ 21—	1								
	ow surface o	grade (COPR - chro GGM - greei	omite o	re process	ing residue	UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - manufac	tured gas plant ate chemical production wa

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A.GDT - 3/21/17

RA PPG LOGS

2012-09

30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: NFS-PDI-Z15B

Page: 1

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 Depth to Water: 6.0 Project Manager: Scott Mikaelian Surface Elevation: 10.5 ft NAVD88 Physical Location: Actual - Forrest St Properties - Supplemental PDI Depth Recovery PID Moisture GΑ Graphic Sample **USCS** Range Surface Cover and Thickness: (ft/ft) Content Class ID. (ppm) Log (ft bgs) 3.5 CONCRETE, no odor, no staining. CONCRETE **FILL** ASH, little fine to medium sand, (7.5YR 3/4) dark brown, moist 3 dense, moist, no odor, no staining. 3 **FILL** ASH, some fine to medium sand, trace silt, (7.5YR 3/2) moist 5 dark brown, medium dense, moist, moderetè fuel oil-like odor, product staining. moist 3 FILL SILT, trace fine sand and wood, (7.5YR 4/2) brown, firm, moist, no odor, no staining. 0.0 3 FILL SILT, trace fine sand, (7.5YR 4/2) brown, firm, moist, no moist odor, no staining. NFS-PDI-Z15B-5.5-6.0 NFS-PDI-Z15B-6.0-6.5 organic SILT, trace fine sand, (10YR 3/1) very dark gray, moist 14 OL soft, moist, no odor, no staining, water at 6.0 feet. Soils consistent with UNDorg. 5 14 SILT, trace organics, (7.5YR 6/3) light brown, firm, moist, moist ML no odor, no staining. Soils consistent with UNDno. 10 0.0 9 ML SILT, trace fine sand and clay, (7.5YR 6/1) gray, stiff, moist moist, no odor, no staining. Soils consistent with UNDno. 12-NFS-PDI-Z15B-12.0-12.5 5 SP fine to coarse SAND, little medium to coarse gravel, (2.5YR wet 10 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 3.7 16 NFS-PDI-Z15B-16.0-16.5 NFS-PDI-Z15B-18.0-18.5 19 NFS-PDI-Z15B-20.0-20.5 0.0 1 -21 Notes: bgs - below surface grade MM - meadow mat COPR - chromite ore processing residue UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste ents: 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

Boring ID: P4-FOR-EE10B

Page: 1

D	4 1 1	200.0-	c: - - A			National Octobries Associate		Page: 1
	t Name: F					Orilling Company: SGS North America	0!' t (N 10D)	IA DOO) 044055 4
	t Number:			0.00.00.414		Orilling Method: Direct Push	Coordinates (NJSPN	<u> </u>
				9:08:00 AM		Rig Type: Geoprobe	Coordinates (NJSPN	
			6/24/2016	6 10:05:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: HBE				F	Project Manager: Scott Mikaelian	Depth to Water: NA	
Physic	al Locatio	n: Act	ual - Forre	st PDI		_	Surface Elevation:	11.98 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickr	ness:	Sample ID
		0.0		CONCRETE		CONCRETE		
_1-				FILL		ASH, trace fine to medium gravel, (7.5YF loose, moist, no odor, no staining.		P4-FOR-EE10B-0.6-1.1
2 3 	4.5		moist to wet	FILL		SILT, trace fine gravel and ash, (2.5Y 5/2 medium dense, moist to wet, no odor, no		P4-FOR-EE10B-2.0-2.5
├				NR		NO RECOVERY		P4-FOR-EE10B-4.0-4.5
——5— ——6—		0.0	wet to saturated	FILL		SILT, trace fine gravel, (2.5Y 5/2) grayish dense, wet to saturated, no odor, no stair feet.		
					\bowtie			P4-FOR-EE10B-6.0-6.5
	4		saturated	SM		fine SAND, some silt, (5YR 4/3) reddish l dense, saturated, no odor, no staining. So UNDno.		P4-FOR-EE10B-6.5-7.0
⊢ -	1		saturated	SW		medium to coarse SAND, trace fine to me	edium gravel (5YR	
9 	-		Saturated	NR	<u> </u>	4/3) reddish brown, saturated, no odor, n consistent with UNDno. NO RECOVERY		
10								
	low surface			romite ore proce	essing res	sidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo	eposits MGP - manu sits CCPW - chro	factured gas plant omate chemical production waste

PPG - 2012-09 RA PPG_LOGS_A.GDT - 11/30/16 23:49

GGM - green grey mud UNDorg - organic undisturbed native deposits MM - meadow mat

A E COM

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Boring ID: P4-FOR-Y12B / P4-FOR-Y12BR

Page: 1

Project Name:					Drilling Company: SCS North America		
Project Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	JAD83) x: 611711 7
Date Started Dril			10:50:00 AM		Rig Type: Geoprobe Coordinates (NJSF		
Date Finished Di					Core Size: 3.0 in	Boring Total Depth:	
Logged By: HBI		0,20,2010	7 1 1.00.00 7 11		Project Manager: Scott Mikaelian	Depth to Water: 4.5	
Physical Location		ual - Forres	st PDI		110juut managuri Cook minacian	Surface Elevation: 1	
Depth Recovery	PID	Moisture		Graphi	Surface Cover and Thic	•	Sample
ft bgs) (ft/ft)	(ppm)	Content		Log		MICSS.	ID
	0.0		ASPHALT		Asphalt and gravel sub-base.		
-1- 1- 2		moist to saturated	FILL		ASH, trace fine sand and coal, (7.5YR loose, moist to saturated, no odor, no s feet.		P4-FOR-Y12B-0.5-1.0 & P4-FOR-Y12BR-0.5-1.0 P4-FOR-Y12B-2.0-2.5
4.5							P4-FOR-Y12B-4.0-4.5
-			NR	XXXX	NO RECOVERY		
-5	0.0	saturated	FILL		ASH, trace fine sand and coal, (5Y 3/1) very dark gray, loose, saturated, no odor, no staining.		
−6 −−				\bowtie	, , , , , , , , , , , , , , , , , , ,		P4-FOR-Y12B-6.0-6.5
				XXX	8		
_7				\bowtie			P4-FOR-Y12B-6.5-7.0 P4-FOR-Y12B-7.0-7.5
4 -8		wet	ML		SILT, (7.5YR 4/3) brown, medium stiff, staining. Soils consistent with UNDno.	wet, no odor, no	
10			NR		NO RECOVERY		
-11 -12 -13	0.0	wet	ML		SILT, (7.5YR 4/3) brown, stiff, wet, no Soils consistent with UNDno.	odor, no staining.	
			NR		NO RECOVERY		
-15							
lotes:	grade	COPR - chr	omite ore proce	essing re	esidue UNDno - non-organic undisturbed native	deposits MGP - manu	lfactured gas plant omate chemical production wa
igs - below surface /IM - meadow mat	3	GGM - gree			UNDorg - organic undisturbed native de	i	

2012-09 RA PPG LOGS A.GDT - 11/30/16 23:49

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Boring ID: P4-FOR-Z12B

Page: 1

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 PID Recovery Moisture Graphic Sample **USCS** Surface Cover and Thickness: Range Content ΙĎ (ft/ft) (ppm) Log (ft bgs) 0.0 **ASPHALT** Asphalt and gravel sub-base. P4-FOR-Z12B-1.0-1.5 moist **FILL** fine to medium SAND, some ash, trace cinders and fill debris, (7.5YR 4/2) brown, medium dense, moist, no odor, P4-FOR-Z12B-3.0-3.5 moist **FILL** CINDERS, (2.5Y 2.5/1) black, loose, moist, no odor, no staining. NO RECOVERY NR CINDERS, (2.5Y 2.5/1) black, loose, wet, no odor, no staining, water at 5.0 feet. 0.0 wet **FILL** FILL saturated SILT, trace wood, (5Y 5/1) gray, medium dense, saturated, P4-FOR-Z12B-6.0-6.5 no odor, no staining. P4-FOR-Z12B-6.5-7.0 MLSILT, (5Y 5/1) gray, medium dense, saturated, no odor, no saturated staining. Soils consistent with UNDno. 4.5 SILT, trace fine sand, (7.5YR 4/2) brown, medium dense, ML wet wet, no odor, no staining. Soils consistent with UNDno. NO RECOVERY NR 10 0.0 ML SILT, trace fine sand, (5YR 4/3) reddish brown, medium wet dense, wet, no odor, no staining. Soils consistent with UNDno. 12 SM fine to medium silty SAND, trace fine to medium gravel, wet (5YR 4/3) reddish brown, medium dense, wet, no odor, no staining. Soils consistent with UNDno. 13 NR NO RECOVERY 15 bgs - below surface grade bgs - below surface grade GGM - green grey mud UNDno - non-organic undisturbed native deposits UNDorg - organic undisturbed native deposits MGP - manufactured gas plant CCPW - chromate chemical production waste

nts: 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.

PSEG SC Former Halladay Street Gas Works СМХ Remedial Investigation Page 1 of 3 LOG OF SOIL BORING SB-62/62C PROJECT LOCATION Elevation (FT. NAVD88) PROJECT NUMBER Halladay Street, Jersey City, NJ 020667601 FOREMAN DRILLING CONTRACTOR DATE STARTED DATE COMPLETED Advanced Drilling, Inc. Aubrey Vierheilig 08/17/07 08/17/07 DRILLING FOUIPMENT COMPLETION DEPTH (FT BGS) BOCK DEPTH (FT) GEFCO SS 15 Drill Rig turning 4.25-inch inside diameter hollow-stem augers not encountered TYPE BIT Hollow-stem auger SIZE AND TYPE CORE BARREL O. SAMPLES DIST. UNDIST. N/A N/A N/A CASING CASING HAMMER WEIGHT N/A BORING LOCATION: North shoulder of Forrest Street, near 2" diameter, 2' long split-spoon SAMPLER western end of Forrest Street, Jersey City, NJ SAMPLER HAMMER WEIGHT 140 lbs DROP 30" INSPECTOR Eric Gaulin PID READINGS Samples (PPM) DESCRIPTION Depth REMARKS Time Sample Time Head Time (ft bgs) (ft) Date - 0 0.0-0.3' Asphalt road surface SB-62 - hand dig to 3.5 feet. Collect sample SB-62(1.5 0.0 0.0 2.0) at TCL VOC, TCL SVOC; Encountered concrete at 0.3-0.4' FILL: rusty brown sand, with visible 3.5 feet: backfill and abandon chromate ore processing residue (COPR) SB-62A - offset 2 feet from SB-62; encountered PVC pipe 0.4-5.0' FILL: Black fine to medium sand. SB-62B - offset 2 feet from SB-62A; encountered steel gravel, dry, medium dense; reddish brown pipe at 4.0 feet; back fill and abandon. (COPR) pellets. SB-62C - offset 2 feet from SB-62B 5 5.0-5.5' Dusky red (2.5YR 3/2) silty CLAY, 1008 1.5 3 0.0 0.0 1008 N/A N/A little (10%) gravel (CL), wet, medium stiff. Sample SB-62 (1.5-2.0) collected at 0824 for 2 0.0 0.0 5.5-8.0' Dark reddish gray (2.5YR 3/1) TCL VOC, TCL SVOC organic clay / silt (OH) with trace visible peat fragments, moist, very soft. 0.0 0.0 No sheen, no odor; no observable evidence of MGP contamination 2 1.2 1 1014 0.0 0.0 N/A N/A No sheen, no odor; no 1014 observable evidence of MGP contamination 2 0.0 0.0 8.0-9.6' Dark red (2.5YR 3/6) organic SILTY 8 Sample SB-62C (7.0-CLAY (OH), moist, trace fine sand. 4 0.0 0.0 7.5) collected at 1022 for TCL VOC, TCL SVOC 4 9 3 1.2 3 1017 0.0 0.0 1017 N/A N/A No sheen, no odor; no 9.6-11.8' Dark red (2.5YR 3/6) fine sandy observable evidence of SILT (SM), some rusty brown colored MGP contamination 1 0.0 0.0 mottling, moist, medium dense. 10 3 0.0 0.0 4 11.8-12.2' Reddish brown (5YR 4/4) fine sandy SILT (SM), moist, medium dense. 1.5 3 1019 0.0 0.0 1019 N/A N/A No sheen, no odor; no observable evidence of MGP contamination 0.0 0.0 5 12.2-15.0' Yellowish red (5YR 5/6) fine to 12 medium SAND (SW), trace silt, little fine 8 0.0 0.0 gravel, moist. 10

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