Appendix G

Boring Logs

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



Boring ID: 10W-I44A

Page:	1

_	t Name: [Drilling Company: Summit Drilling	Coordinates (NUCP)	NAD83) x: 610529.3		
	<u>t Number:</u> tarted Dril					Drilling Method: Direct Push/Hand Auger Rig Type: Geoprobe		NAD83) y: 682334.9		
			12/9/2019			Core Size: 2 inch	Boring Total Depth:			
	d By: Tar					Project Manager: Cameron Dixon	Depth to Water: 8.5			
				est Building		roject manager. Gameron Dixon	Surface Elevation:			
ilysic		1. Ou		est Duliuling	1		Surface Lievation.			
epth t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Soil Description:		Sample ID		
 	-	0	Dry to Moist	FILL		fine to medium SAND, some coarse gra debris (glass and bricks), (7.5YR 3/2) d medium dense, dry to moist, no odor, n	ark brown,			
-2	5		Dry	FILL		fine to medium SAND, little coarse grav	/el and brick	10W-I44A-2.0-2.5		
-3 -4 -			to Moist Dry to Moist	FILL		fragments, potential COPR nodules <1, magnetic characteristics, (5YR 3/2) dar medium dense, dry to moist, no odor, n fine to medium SAND, some coarse gra rocks, (5YR 4/3) reddish brown, mediur moist, no odor, no staining	k reddish brown, o staining avel, little angular	-		
-5 -6 -7 -8	5	0								
-8	1		Moist	FILL		medium to coarse SAND, some coarse				
_	1		to	FILL		debris, (7.5YR 3/2) dark brown, mediur	n dense, moist to $/$	-		
-9	1		Wet Wet			wet, no odor, no staining fine to medium SAND, some silt, little c				
	-		VVEL			(7.5YR 4/2) brown, medium dense, wet				
-10 -11 -12 -12 -12	- 5	0				staining				
-13	1		Wet	FILL		fine to coarse GRAVEL, some fine san	ds, little fill debris,			
-	1		Wet	FILL		🕺 🔨 (7.5YR 3/2) dark brown, medium dense	e, wet, no odor, no /	10W-I44A-13.5-14.0		
-14 -15						staining fine to medium SAND, some silt, little c (7.5YR 4/2) brown, medium dense, wet staining				
		0	Wet	FILL		fine to coarse GRAVEL, some fine san				
-16 -17	5		Wet	FILL		dark brown, medium dense, wet, no od fine to coarse silty SAND, little coarse of reddish brown, soft, wet, no odor, no st	gravel, (5YR 4/3)	10W-I44A-15.5-16.0		
_	5		Moist	OL	<u></u>	UNDorg- silt, some organic fibers, trace	e fine sands.	1		
18			to Wet			(7.5YR 3/2) dark brown, soft, moist to v odor, no staining	vet, slight organic			
19	1				<u> </u>	-				
_	1		Moist	PT			7.5YR 3/2) dark	1		
-20						└── <u>brown</u> , stiff, moist, moderate organic oo	dor, no staining			
	low surface o		COPR - chro GGM - greer	mite ore proce grey mud	essing res	idue UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposi	posits MGP - manu ts CCPW - chro	Ifactured gas plant omate chemical production was		

A=COM

Test Pit ID: 133-P3B-M46A

Project Date St	Name: P Number: arted Drill nished Dri	60240 ing: 4	739 /17/2014 8	3:10:00		Drilli Rig 1		PNAD83) x: 610610.294 PNAD83) y: 682252.99 b: 20 ft
	IBy: ES	iiiig.	4/17/2014	5.20.0			ect Manager: Chris Martell Depth to Water:	NA
	al Location	1: P3B	- M46A				Elevation: 12.0	
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Thickness:	(Note bgs = below ground surface) Sample ID
- 1	-	0.0 0.0	dry	23	<u>ASPHALT</u> FILL		ASPHALT fine to medium SAND, little fine to medium gravel, crushed concrete, trace wood debris, (10YR 5/2) grayish brown, medium dense, dry, no odor, no staining.	1 133-P3B-M46A-1.0-1.5
-2	5							133-P3B-M46A-3.0-3.5
- 4		0.0	moist	3	FILL		fine to medium silty SAND, some fine gravel, little brick fragments, trace glass, (7.5YR 3/3) dark brown, medium	
— 5 — — 6 —	-	0.0	moist to wet	3	FILL		dense, moist, no odor, no staining. fine to medium silty SAND, some wood debris, little fine gravel, trace glass, brick, (10YR 4/2) dark grayish brown, medium dense, moist to wet, no odor, no staining.	133-P3B-M46A-5.0-5.
-7	5							133-P3B-M46A-7.0-7.
-9	-	0.0	wet	3	FILL		CINDERS, with fine to medium gravel, some wood debris,	133-P3B-M46A-9.0-9.
							(7.5YR 4/1) dark gray, loose, wet, no odor, no staining.	
	-	0.0	wet	3	FILL		fine to medium silty SAND, some wood debris, (7.5YR 3/2	
-12	5	0.0	dry	9	OL		dark brown, medium dense, wet, no odor, no staining. UNDorg SILT, 70% organic silt, 30% organic fibers, (10YF 5/2) grayish brown, low plasticity, medium stiff, dry, moderate organic odor, no staining. Soils consistent with UNDorg.	133-P3B-M46A-11.5-12
15 		0.0	moist	9	OL	 	UNDorg SILT, 80% organic silt, 20% organic fibers, (10YF 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
	5	0.0	moist	9	OL		UNDOrg SILT, 90% organic silt, 10% organic fibers, (10YF 5/1) gray, low plasticity, soft, moist, slight organic odor, no staining. Soils consistent with UNDorg.	
-20								



Boring ID: 135-AA38A

	Number:	60314	351			Drilli	ng Method: Direct Push	Coordinates (NJSPNA	D83) x: 611094.5
	arted Drill			0:00:0	00 AM		ype: Geoprobe 7822DT	Coordinates (NJSPNAD	
	nished Dri						Size: 2.0 in	Boring Total Depth: 2	
	By: MI						ct Manager: Scott Mikaelian	Depth to Water: 7.0	
	al Location	1: Forr	ner Narula	Prope	rty - Bld 5			Surface Elevation: 11	.1 ft NAVD88
,				1	.,	-			s = below ground surface)
epth		_							
inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	hickness:	Sample ID
		0.0		2	ASPHALT	×××××	ASPHALT.		-
_		0.0		3	FILL		degraded ASPHALT, and subbase gr	avel(Trap Rock).(7.5YR	
							2.5/1) black,loose,no odor,no staining		
1 — _ 2 —	4	0.0	slightly moist	3	FILL		fine to medium SAND, with cinders, s coal, medium to coarse gravel, trace v 2.5/2) very dark brown, slightly moist	vood fragments,(7.5YR	135-AA38A-1.0-1.5
 3	4								135-AA38A-3.0-3.5
_									135-AA38A-3.0-3.5
4					NR		NO RECOVERY.		-
5									
5 — 6 —		0.0	moist	3	FILL		fine SAND,with silt,little fine gravel,ci wet,no odor,no staining, slight black		135-AA38A-5.0-5.5
7	E								135-AA38A-7.0-7.5
 8	5								-
_		0.0	moist	3	FILL		fine SAND,with silt,little fine gravel, (brown,dense, moist,no odor,no stain		
9 									135-AA38A-9.0-9.5
0		0.0	wet	3	FILL		fine to medium SAND,with silt,little n ash,cinders lens @ 13.0-13.5,(7.5Yf saturated,no odor,no staining.	nedium gravel,trace R 4/2) brown,wet to	-
1	5						Salut alcu, no ouor, no Stali IIIg.		135-AA38A-11.0-11.5
3									135-AA38A-13.0-13.5
_ 4		0.0	moist	3	FILL		SILT, with fine sand, interbedded with gravel, trace clay orange mottling, (7.5 plasticity soft, moist to saturated, no o	5YR 4/2) brown,low	-
5 		0.0	moist	3	FILL		SILT, and fine sand, interbedded with gravel, trace clay, orange mottling, (7.5 plasticity soft, moist to saturated, no o	5YR 4/2) brown,low	135-AA38A-15.0-15.5
-									135-AA38A-16.5-17.0
7	5	2.3	moist	7	PT		PEAT (degraded vegetated material) 30% organic silt),(7.5YR 3/2) dark brown,stiff,moist,moderate organic o		135-AA38A-17.0-17.5
8		1.1	moist	9	OL	- <u></u>	consistent with MM. UNDorg SILT, (80% organic silt, 20% fibrous with depth) (10YR 4/2) dark g	6 organic fibers, less	
9							moist slight organic odor no staining. UNDorg.		

ENSR AECOM	Client: P	PG Industries				BORI	-	
ENSKALCOM	Site: S	ite 135				13	35-B12	
Start Date:	Project: Site	e Investigation				Page: 1 of	f 3	
12/12/2006	Coordinates: X	-610828.5	Y-682027	'.5		Depth of E	Boring: 28.00	
End Date:	Elevation: 9.8	ft NAVD88				Geologist: P. Kelly, M. Merdinger		
12/19/2006	Drill Subcontra	actor: EB/TPI					ath Kneller	
Depth (ft) Lithology		Description		PID	Sar	mpleID	Sample Parameters	

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

ENSR AECOM	Client: PPG Industries	BORING ID:			
ENSK AECOM	Site: Site 135		135-B12		
Start Date:	Project: Site Investigation	Page: 2 of 3			
12/12/2006	Coordinates: X-610828.5 Y-68	28.5 Y-682027.5 Depth of Boring:			
End Date:	Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger		
12/19/2006	Drill Subcontractor: EB/TPI		Driller: Heath Kneller		
Depth (tt) Lithology	Description	PID 58	mple ID Sample Parameters		

I	1	1			
12		PEAT: PEAT (Meadow Mat), moist, firm. Sulfur odor.	2.0 ppm	135-B12F (12.0-13.0)	Cr+6, TAL Metals
		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	7.8 ppm		
14			4.2 ppm		
		NR: No Recovery			
16-		PEAT: Dark Reddish Gray (2.5YR N3/0) organic CLAY, moist, firm. Sulfur odor.	5.2 ppm	135-B12G (16.0-16.5)	Cr+6, TAL Metals
18-			1.8 ppm		
10-			0.2 ppm		
-		SAND AND SILT: Greenish Gray (5GY 5/1) SILT and very fine SAND, trace Organics, moist. Sulfur odor.		135-B12H (18.7-19.2)	Cr+6, TAL Metals
20-	-	NR: No Recovery	0.0 ppm		
		SILT AND CLAY: Dark Gray (5GY 4/1) SILTY CLAY, some very fine Sand, wet, plastic properties. No odor.	0.0 ppm		
			0.0 ppm		

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

ENSR AECOM	Client:	PPG Industries	BORING ID:					
ENSK AECOM	Site:	Site 135				13	35-B12	
Start Date:	Project:	Site Investigation				Page: 3 o	f 3	
12/12/2006	Coordinate	es:X-610828.5	Y-682027	7.5		Depth of E	Boring: 28.00	
End Date:	Elevation:	9.8 ft NAVD88				Geologist: P. Kelly, M. Merdinger		
12/19/2006	Drill Subco	ontractor: EB/TPI					eath Kneller	
Depth (ft) Lithology		Description		PID	Sar	nple ID	Sample Parameters	

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

ENSR AECOM	Client:	PPG Industries	BORING ID:					
ENSRAECOM	Site:	Site 135				13	35-B13	
Start Date:	Project:	Site Investigation				Page: 1 o	f 4	
12/12/2006	Coordinate	es:X-610895.3	Y-682090).1		Depth of I	Boring: 36.00	
End Date:	Elevation:	9.9 ft NAVD88				Geologist: P. Kelly, M. Merdinger		
12/20/2006	Drill Subco	ontractor: EB/TPI					eath Kneller	
Depth (H) Lithology		Description		PID	Sat	mpleID	Sample Parameters	

0				
	\times \times \times FILL: Black Topsoil, some roots, little fine Gravel.		135-B13A (0.0-0.5)	Cr+6, TAL Metals
	\times \times FILL: Brown coarse SAND, some fine Gravel.	0.2 ppm		
-			135-B13B (1.0-1.5)	Cr+6, TAL Metals
	×Č×Č			
2—				
	× × × × × ×			
-	$\begin{array}{c} \times & \times \\ \times & \times \\ \times & \times \end{array}$			
	× × × FILL: Dark Grayish Red ASH and SILT, some fine to	0.0 ppm	135-B13C	Cr+6, TAL Metals
4—	\times \times coarse Gravel, little ceramic pieces, moist.	0.1 ppm	(3.7-4.1)	
	\times \times \times FILL: Reddish Gray (5YR 5/2) SILT and fine angular Gravel, Fill materials (concrete, ceramics, shells), wet. No odor.		135-B13D (4.2-5.3)	Cr+6, TAL Metals
-	FILL: Reddish Brown (5YR 4/3) SILT, little coarse Sand, moist. No odor.	0.2 ppm		
6+	FILL: Sandstone (cobble)			
	FILL: Brown (7.5YR 4/3) SILT, little coarse Sand and Clay, slight dark green staining, wet. No odor.			
_	NR: No Recovery NOTE TEST PIT WAS CONDUCTED ON 9/14/2018 (135-B13-TP) AT THIS LOCAT THE CREEN STAINING WAS DETERMINED TO BE MOTTLED SILTS/SAND AND			
8—	FILL: Brown (7.5YR 4/3) SILT, little coarse Sand and Clay, slight dark green staining, wet. No odor.	0.0 ppm		
-	FILL: Brown (7.5YR 5/3) SILTY CLAY, some medium		135-B13E (8.5-9.5) 135-B13ED	Cr+6, TAL Metals
	\times \times to coarse Sand, little fine rounded Gravel, wet, loose. No odor.	0.0 ppm	(8.5-9.5)	
	××		l	l

ENSR AECOM	Client: PPG Industries		BORING ID:
EINSK AECOM	Site: Site 135		135-B13
Start Date:	Project: Site Investigation		Page: 2 of 4
12/12/2006	Coordinates: X-610895.3	Depth of Boring: 36.00	
End Date:	Elevation: 9.9 ft NAVD88		Geologist: P. Kelly, M. Merdinger
12/20/2006	Drill Subcontractor: EB/TPI		Driller: Heath Kneller
Depth (tt) Lithology	Description	PID 58	mple ID Sample Parameters

`

10+	- × × × × × ×		0.0 ppm		
		NR: No Recovery			
-					
12-			0.0 ppm		
	×^×^ × × × · × · ×	FILL: Brown (7.5YR 5/3) SILTY CLAY, some medium to coarse Sand, little fine rounded Gravel, wet, loose. No odor.	0.0 ppm		
-	$\mathbf{x} \mathbf{x} \mathbf{x}$		0.0 ppm		
14-		FILL: Dark Reddish Brown (5YR 3/4) SILTY CLAY, trace fine Gravel, moist, firm. No odor.	0.0 ppm	135-B13F (13.5-14.0)	Cr+6, TAL Metals
	× × × × × ×	FILL: Reddish Brown (5YR 5/3) SILT, some fine to medium Sand, trace Clay, wet to moist, semi-firm. No odor.	0.0 ppm		
		NR: No Recovery			
16 —	× × × × × × × × × × × × × × × × × × ×	FILL: Reddish Brown (5YR 4/4) SILTY CLAY, trace fine rounded Gravel, moist, firm. No odor.	0.0 ppm		
-	$\begin{array}{c} & \times & \times \\ \times & \times \\ \times & \times \\ \times & \times \end{array}$		0.0 ppm		
18-		PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.8 ppm	135-B13G (17.6-18.1)	Cr+6, TAL Metals
		NR: No Recovery			

ENSR AECOM	Client:	PPG Industries					NG ID:
EINSK AECOM	Site:	Site 135				13	35-B13
Start Date:	Project: Site Investigation			Page: 3 of 4			
12/12/2006	Coordinates: X-610895.3 Y-682090.1		Depth of Boring: 36.00				
End Date:	Elevation	9.9 ft NAVD88				Geologist	: P. Kelly, M. Merdinger
12/20/2006	Drill Subc	ontractor: EB/TPI					eath Kneller
Depth (ft) Lithology		Description		PID	Sa	mple ID	Sample Parameters

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

ENSR AECOM	Client: PP	G Industries					NG ID:
ENSKALCOM	Site: Site	e 135				13	35-B13
Start Date:	Project: Site Investigation			Page: 4 of 4			
12/12/2006	Coordinates: X-610895.3 Y-682090.1		Depth of Boring: 36.00				
End Date:	Elevation: 9.9 ft	NAVD88				Geologist:	P. Kelly, M. Merdinger
12/20/2006	Drill Subcontrac	tor: EB/TPI					eath Kneller
Depth (tt) Lithology	٢	Description		PID	Sar	mple ID	Sample Parameters

30 -		SAND: Weak Red (10R 4/4) fine to coarse SAND, little rounded Gravel, trace Silt, wet. No odor.	0.0 ppm		
-		NR: No Recovery			
32 -		SILT: Weak Red (10R 4/4) fine SANDY SILT, wet, loose. No odor.	0.0 ppm	135-B13K (32.0-32.5)	Cr+6, TAL Metals
34 –	-		0.0 ppm		
-		SILT: Weak Red (10R 4/4) SILT, moist, firm. No odor.	0.0 ppm		
36-			0.0 ppm		
		NULL: End of Boring at 36 ft.	1		

· · · · · · · · · · · · · · · · · · ·	UNINGS		FIELD LC ONECT 135-BI EQUIPMENT TACK CURNS NOOE 33	GROUND E	114/2018	2 //.c
WEATHER 74/67				EXCAV.	BOULDER	REIGH No.
-1°-FILL	DGA			E	<u></u>	
- 2'			5 1 3	E		
			×	E		
- 4'		•		E		
		4-55		E		+
-8'- FILL	FINE SAND	DOT NO VI	REDDISH BI	E E	+	+
	FINE SAL	D WITH KITL	BILT-MA	THEN E		1
9,	COLOR VARI GREEN/GRI VISUAL CL	to FROM RED. AY. WET, NO	BROWN TO DIDOR ND			
	toune a	<i>pw</i>				:
	-		1			·
						· ·
-13°-		-	ł., ,		+	
REMARKS: WEST	DN PRESE	NT TO OF	3 StRUE	THE PBSC	NCE OF	L
TEST PIT PLAN			DRTIONS USED E (TR.) 0-10% E (U.) 10-20% E (SO) 20-35%	ABBREVIATIO		asy IODERATE IFFICULT VATER

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

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

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

$12 + \times $	PEAT: PEAT, organics, moist, firm. Sulfur odor.	0.0 ppm 0.1 ppm 3.3 ppm	135-B14F (12.8-13.3)	Cr+6, TAL Metals
	CLAY: Very Dark Gray (5Y 3/1) organic CLAY, little organic PEAT, moist, firm. Sulfur odor.	2.9 ppm		
		6.8 ppm	135-B14G (17.0-17.5)	Cr+6, TAL Metals
	NR: No Recovery	22.4 ppm		
	PEAT: PEAT, organics, moist, firm. Sulfur odor. SANDY SILT: Gray (Gley N5/0) very fine SANDY SILT, some Clay, wet, loose. No odor.	2.8 ppm	135-B14H (20.4-20.9)	Cr+6, TAL Metals

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

ENSR AECOM	Client: PPG In	dustries				NG ID:
ENSK AECOM	Site: Site 13	5			13	35-B14
Start Date:	Project: Site Inve	estigation			Page: 3 o	f 3
12/12/2006	Coordinates: X-6110)58.0 Y-68223	81.8		Depth of E	Boring: 32.00
End Date:	Elevation: 10.5 ft N	AVD88			Geologist:	P. Kelly, M. Merdinger
12/20/2006	Drill Subcontractor:	EB/TPI				eath Kneller
Depth (tt) Lithology	Desc	ription	PID	Sar	mple ID	Sample Parameters

22-			2.8 ppm		
		SILTY SAND: Gray (Gley N5/0) SILTY fine to medium SAND, wet. No odor.	1.3 ppm		
24		NR: No Recovery	0.1 ppm		
		SANDY SILT: Gray (Gley N5/0) very fine SANDY SILT, some Clay, wet, loose. No odor.		135-B14I (24.5-25.0)	Cr+6, TAL Metals
-			0.1 ppm		
26-	-	SAND: Dark Gray (10YR 4/1) very fine to fine SAND, little SILT, moist to wet, semi-firm. No odor.	0.4 ppm		
-			0.1 ppm		
28-		NR: No Recovery	0.0 ppm		
		SAND: Weak Red (10R 4/2) medium to coarse SAND and fine rounded GRAVEL, some Silt, trace Clay, wet, loose. No odor.		135-B14J (28.5-29.0)	Cr+6, TAL Metals
		CLAY: Reddish Gray (10R 5/1) CLAY, trace fine Sand, moist, firm. No odor.	0.0 ppm		
30 —	-	SAND AND SILT: Weak Red (10R 4/2) coarse SAND and SILT, little Clay, wet, semi-firm. No odor.	0.0 ppm		
		SAND: Weak Red (10R 4/2) very fine to fine SAND, trace silt, wet. No odor.			
		NR: No Recovery			
I ₃₂ ⊥	_ [NULL: End of Boring at 32 ft.			I]

ENSR AECOM	Client:	PPG Industries					NG ID:
ENSKALCOM	Site:	Site 135				13	35-B15
Start Date:	Project:	Site Investigation				Page: 1 o	f 3
12/12/2006	Coordinate	es:X-611127.9	Y-682298	3.4		Depth of I	Boring: 32.00
End Date:	Elevation:	10.9 ft NAVD88				Geologist	P. Kelly, M. Merdinger
12/22/2006	Drill Subco	ontractor: EB/TPI					eath Kneller
Depth (tt) Lithology		Description		PID	Sa	mple ID	Sample Parameters

0				
	ASPHALT: ASPHALT			
	× FILL: Dark Brown coarse SAND and SILT, some fine to coarse Gravel, small cobbles.	0.0 ppm	135-B15A (0.6-1.1)	Cr+6, TAL Metals
2-				
	FILL: Gray-Black ASH and SILT, some fine Gravel, little ceremic pieces.	1.8 ppm	135-B15B (2.2-2.7)	Cr+6, TAL Metals
	×			
	FILL: Black SILT, some fine Gravel, little debris. Slight petro odor.	3.2 ppm	135-B15C (4.2-4.5)	Cr+6, TAL Metals
	FILL: Dark Reddish Gray SILT, little corase Sand and Clay, Fill material (stones, brick), wet, semi-firm to loose. No odor	0.0 ppm		
6— ×××	NR: No Recovery	0.0 ppm		
-				
8- × ×	FILL: Brown (7.5YR 4/2) SILTY CLAY, little fine Sand,	0.0 ppm	135-B15D (8.0-8.5)	MS/MSD, Cr+6, TAL Metals
	trace coarse Gravel, wet, semi-firm. No odor.		(0.0-0.3)	IVIETAIS
	×	0.0 ppm		
	FILL: Brown (7.5YR 4/2) SILT, little coarse Sand and medium angular Gravel, wet, loose. No odor.	0.0 ppm		
	NR: No Recovery			

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

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

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

ENSR AECOM	Client:	PPG Industries					NG ID:
ENSKALCOM	Site:	Site 135				13	35-B15
Start Date:	Project:	Site Investigation				Page: 3 o	f 3
12/12/2006	Coordinate	es:X-611127.9	Y-682298	3.4		Depth of I	Boring: 32.00
End Date:	Elevation:	10.9 ft NAVD88				Geologist	: P. Kelly, M. Merdinger
12/22/2006	Drill Subco	ontractor: EB/TPI					eath Kneller
Depth (ft) Lithology		Description		PID	Sat	mpleID	Sample Parameters

22-			12.8 ppm		
-		SANDY SILT: Gray (2.5Y 5/1) very fine SANDY SILT, moist, firm. Slight sulfur odor.		135-B15I (23.0-23.5)	Cr+6, TAL Metals
24 -	·····	NR: No Recovery	1.6 ppm		
		SAND: Very Dark Gray (5Y 3/1) fine to medium SAND, little silt, wet. Slight sulfur odor.			
		SILTY SAND: Very Dark Gray (5Y 3/1) SILTY fine to medium SAND, little silt, wet, loose. Slight sulfur odor.	2.6 ppm		
26-			0.2 ppm		
-			0.0 ppm	135-B15J (27.0-27.5)	Cr+6, TAL Metals
28-		SILT: Dark Brown (10YR 3/3) organic SILT, organics- roots heavily, moist, semi-firm. Sulfur odor.		(21.0-21.3)	
	<u>~-~~-~</u>	CLAY AND SAND: Dark Gray (2.5Y 4/1) SANDY CLAY, moist, firm. No odor.	0.0 ppm		
	-27-27-27 -27-27-27	CLAY AND SAND: Dark Gray (2.5Y 4/1) SANDY CLAY, moist, firm. No odor.	0.0 ppm		
30-	<u>-X-X-X</u>	SAND: Weak Red (10YR 4/3) fine to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
			0.0 ppm	135-B15J (31.0-31.5)	Cr+6, TAL Metals
I ₃₂ ⊥		NULL: End of Boring at 32 ft.			

ENSR AECOM	Client:	PPG Industries					NG ID:
ENSKALCOM	Site:	Site 135				13	35-B16
Start Date:	Project:	Site Investigation				Page: 1 o	f 3
12/13/2006	Coordinat	es:X-611271.1	Y-682434	.4		Depth of I	Boring: 32.00
End Date:	Elevation	9.9 ft NAVD88				Geologist	: P. Kelly, M. Merdinger
12/22/2006	Drill Subc	ontractor: EB/TPI				Driller: He	eath Kneller
Depth (ft) Lithology		Description		PID	Sat	mple ID	Sample Parameters

`

0	×××	ASPHALT: ASPHALT			
	× × × · · · · · · · · · · · · · · · · ·	FILL: Gray coarse GRAVEL	0.0 ppm	135-B16A (0.7-1.2)	Cr+6, TAL Metals
	$\begin{array}{c} \times & \times \\ \times & \times \\ \times & \times \\ \times & \times \end{array}$	FILL: Dark Gray SILT and ASH, some fine Gravel, little brick fragments.		(011 112)	
2—	× × × ×	FILL: Gray Brick and Cobbles.	0.0 ppm	135-B16B	MS/MSD, Cr+6, TAL
_	^	FILL: Black SILT, some coarse Sand, little fine Gravel and brick fragments.		(2.0-2.4)	Metals
4+	× × × ×	FILL: Dark Gray SILT, some Clayey fine Gravel, little woody organics. Slight petroleum odor.	2.4 ppm	135-B16C (4.2-4.6)	Cr+6, TAL Metals
-	× × × × × ×	FILL: Very Dark Grayish Brown (10YR 3/2) SILTY CLAY, trace coarse Sand, moist, semi-firm. Rubber odor.	0.0 ppm		
6+	× × ×	FILL: Reddish Brown (10YR 4/3) SILT, some medium to coarse Sand, trace Clay, wet, loose. Rubber odor.	0.0 ppm		
-		NR: No Recovery			
8—	× × × × × × ×	FILL: Reddish Brown (2.5YR 4/3) SILTY CLAY, trace fine rounded Gravel, moist, firm. No odor.	0.0 ppm	135-B16D (8.0-8.5)	Cr+6, TAL Metals
	× × × × × ×	FILL: Reddish Brown (5YR 4/3) SANDY SILT, little Clay and fine angular Gravel, wet, loose. No odor.	0.0 ppm		
10-		NR: No Recovery			

ENSR AECOM	Client: PPG Industries				NG ID:
ENSK AECOM	Site: Site 135			1:	35-B16
Start Date:	Project: Site Investigatio	n		Page: 2 o	f 3
12/13/2006	Coordinates: X-611271.1	Y-682434.4		Depth of I	Boring: 32.00
End Date:	Elevation: 9.9 ft NAVD88			Geologist	: P. Kelly, M. Merdinger
12/22/2006	Drill Subcontractor: EB/TPI				eath Kneller
Depth (tt) Lithology	Description	PID	Sar	mple ID	Sample Parameters

FILL: Red COBBLE	0.0 ppm	135-B16E (12.2-13.2)	Cr+6, TAL Metals
PEAT: PEAT, organics, moist, firm. Sulfur odor.		135-B16ED (12.2-13.2)	
PEAT: Dark Gray (Gley N4/0) organic CLAY, little organics, moist, firm. Sulfur odor.	0.2 ppm	(12.2.10.2)	
	0.2 ppm		
	0.5 ppm		
16			
PEAT: Dark Gray (Gley N4/0) organic CLAY, little organics, moist, firm. Sulfur odor.		135-B16F (16.2-16.7)	Cr+6, TAL Metals
	0.1 ppm	135-B16G (20.0-20.5)	Cr+6, TAL Metals
SILTY SAND: Gray (5Y 5/1) medium to coarse SILTY SAND, little to trace Clay, wet, semi-firm to loose.	0.7 ppm	135-B16H (20.9-21.4)	Cr+6, TAL Metals
	1 1		I I

ENSR AECOM	Client:	PPG Industries					NG ID:
ENSKALCOM	Site:	Site 135				13	35-B16
Start Date:	Project:	Site Investigation				Page: 3 o	f 3
12/13/2006	Coordinate	s:X-611271.1	Y-682434	.4		Depth of E	Boring: 32.00
End Date:	Elevation:	9.9 ft NAVD88				Geologist:	P. Kelly, M. Merdinger
12/22/2006	Drill Subcor	ntractor: EB/TPI					eath Kneller
Depth (tt) Lithology		Description		PID	Sa	mple ID	Sample Parameters

、

22-			1.6 ppm		
-		NR: No Recovery	1.5 ppm		
24-		SILTY SAND: Gray (5Y 5/1) medium to coarse SILTY SAND, little to trace Clay, wet, loose. No odor.	0.5 ppm		
-		SILTY SAND: Gray (5Y 5/1) very fine SILTY SAND, wet, loose. No odor.	0.6 ppm	135-B16l	Cr+6, TAL Metals
26 —		SILT: Dusky Red (2.5YR 3/2) SILT, trace very fine Sand and Clay, firm, moist, wood at 25.0-25.1 feet. No odor.	0.0 ppm	(25.5-26.0)	
-	·	NR: No Recovery	0.0 ppm		
28 —		SAND: Weak Read (10R 4/3) medium to coarse SAND, interbedded Gray CLAY at 29.2 to 30.2 feet, trace Silt, wet, loose. No odor.	0.0 ppm		
-			0.0 ppm	135-B16J (29.0-29.5)	Cr+6, TAL Metals
30 -	-		0.0 ppm		
32		SAND: Weak Read (10R 4/3) medium to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
52		NULL: End of Boring at 32 ft.			

ENSR AECOM	Client: PPG Industrie	es			NG ID:
ENSKALCOM	Site: Site 135			13	35-B17
Start Date:	Project: Site Investiga	tion		Page: 1 o	f 3
12/13/2006	Coordinates: X-611334.9	Y-682503.1		Depth of I	Boring: 28.00
End Date:	Elevation: 9.8 ft NAVD88			Geologist	: P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/T	PI		Driller: Heath Kneller	
Depth (tt) Lithology	Description	PID	San	Iple ID	Sample Parameters

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

ENSR AECOM	Client: PPG Industries		BORING ID:
ENSRAECOM	Site: Site 135		135-B17
Start Date:	Project: Site Investigation		Page: 2 of 3
12/13/2006	Coordinates: X-611334.9 Y-	682503.1	Depth of Boring: 28.00
End Date:	Elevation: 9.8 ft NAVD88		Geologist: P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/TPI		Driller: Heath Kneller
Depth (tt) Lithology	Description	PID 58	mple ID Sample Parameters

	× ×			
	NR: No Recovery			
12 -		0.0 ppm	135-B17E	Cr+6, TAL Metals
>	FILL: Reddish Brown (5YR 4/3) fine to medium SA and SILT, trace fine Gravel, wet, loose. No odor.	AND 0.0 ppm	(120-13.0)	, , , , , , , , , , , , , , , , , , ,
>			135-B17ED (120-13.0)	
- >	× ×	0.0 ppm	()	
>	× × ×	old ppm		
>	×××			
14+,	×××	0.0 ppm		
>	× × ×			
>	× × ×			
-	PEAT: PEAT, organics, moist, firm. Sulfur odor.	3.5 ppm	135-B17F (14.9-15.4)	Cr+6, TAL Metals
			(110 1011)	
	NR: No Recovery			
16+	PEAT: PEAT, organics, moist, firm. Sulfur odor.	1.1 ppm		
		3.9 ppm		
		12.4 ppm		
			135-B17G	Cr+6, TAL Metals
	SAND: Gray (5Y 5/1) very fine SAND, little Silt, we semi-firm. Sulfur odor.	^{et,} 14.8 ppm	(18.8-19.3)	
20+	NR: No Recovery			
	SAND AND SILT: Gray (5Y 5/1) very fine SAND a	6.8 ppm		
I				· · ·

ENSR AECOM	Client:	PPG Industries				_	NG ID:
ENSKALCOM	Site:	Site 133				13	35-B17
Start Date:	Project:	Site Investigation				Page: 3 o	f 3
12/13/2006	Coordinate	es:X-611334.9	Y-682503	3.1		Depth of I	Boring: 28.00
End Date:	Elevation:	9.8 ft NAVD88				Geologist: P. Kelly, M. Merdinge	
12/21/2006	12/21/2006 Drill Subcontractor: EB/TPI						eath Kneller
Depth (H) Lithology		Description		PID	Sa	mple ID	Sample Parameters

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

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

0					
		ASPHALT: ASPHALT			
	Ô×Ô×	FILL: Gray coarse GRAVEL.	0.1 ppm	135-B18A (0.6-1.1)	Cr+6, TAL Metals
2-	× × × × × × × × × × × × × × × × ×	FILL: Black SILT, some medium Sand, little fine Gravel.		(0.0 1.1)	
-	× × × × × × × × × × × × × ×	FILL: Light Brown SILT and CLAY, little fine Gravel and woody organics.	1.3 ppm	135-B18B (2.8-3.3)	Cr+6, TAL Metals
4-	× × × × × × × × × × × × × × ×	FILL: Gray to Black ASH, some Silt and medium Sand, little woody organics.	2.7 ppm -	135-B18C (4.1-4.6)	Cr+6, TAL Metals
-	× × × × × × × × ×	FILL: Reddish Brown (5YR 4/3) SILT, little to trace very fine Sand, trace fine angular pebbles, Fill material, dry, firm. No odor.	0.2 ppm		
6—	ŶXŶX XXX	FILL: Reddish Brown (5YR 4/3) SILT, some very fine to medium Sand, little medium Gravel and Clay, wet, loose to semi-firm. No odor.			
-		NR: No Recovery			
8-	~ ~			135-B18D	Cr+6, TAL Metals
	×××	FILL: Reddish Brown (5YR 4/3) fine SAND, little to trace Silt, wet, semi-firm. No odor.	0.1 ppm	(8.0-8.5)	
		NR: No Recovery			
10+					

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

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

ENSR AECOM	Client: PPG Industries			BORI	-
ENSKALCOM	Site: Site 135			13	35-B18
Start Date:	Project: Site Investigation			Page: 3 o	f 3
12/13/2006	Coordinates: X-611416	Y-682568		Depth of E	Boring: 28.00
End Date:	Elevation: 9.0 ft NAVD88			Geologist:	P. Kelly, M. Merdinger
12/21/2006	Drill Subcontractor: EB/TPI				eath Kneller
Depth (tt) Lithology	Description	PID	San	Iple ID	Sample Parameters

		wet, loose. Slight sulfur odor.	1		
-		CLAY: Gray (Gley N5/0) CLAY, little Silt, dry, firm. No odor.	0.0 ppm		
				135-B18l (21.5-22.0)	Cr+6, TAL Metals
22-			0.0 ppm		
_	7-7-7-7 -7-7-7	CLAY AND SAND: Gray (Gley N5/0) SANDY CLAY, wet, semi-firm. No odor.			
		NR: No Recovery			
24		SAND: Gray (Gley N5/0) fine to coarse SAND, trace Silt, wet, loose. No odor.	0.0 ppm		
-			0.0 ppm		
				135-B18J (25.5-26.0)	Cr+6, TAL Metals
26-			0.0 ppm		
		SAND: Dark Reddish Gray (10R 4/1) fine to medium SAND, trace Silt, wet, loose. No odor.			
			0.0 ppm		
₂₈ _	_ [NR: No Recovery			
-		NULL: End of Boring at 28 ft.			



Boring ID: 135-BB35AR

	Name: F				C			
	Number:					Drilling Method: Direct Push	Coordinates (NJSPN	
Date Sta	arted Drill	ing: 2	2/25/2016	12:30:00 PM	F	Rig Type: Geoprobe 7855DT	Coordinates (NJSPN	AD83) y: _682345.3
Date Fin	nished Dri	illing:	2/25/2016	3 2:00:00 PM		Core Size: 4.0 in	Boring Total Depth:	20 ft
	By: E.S				F	roject Manager: Scott Mikaelian	Depth to Water: 5.5	j
	I Locatio		rula				Surface Elevation:	11.5 ft NAVD88
							(Not	e bgs = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
_		0.0	dry dry	ASPHALT ASPHALT		ASPHALT, (10YR 2/1) black, dry no or Road sub-base, fine to medium SAND	dor, no staining.	
1						(10YR 4/3) brown, dry no odor no stair		
-2	3.5	0.0	dry	FILL		fine to medium SAND, little coal, trace (5YR 3/2) dark reddish brown, medium odor, no staining.	brick and ash,	135-BB35AR-1.0-1.5
-3								135-BB35AR-3.0-3.5
 4				NR	XXXXX	NO RECOVERY.		
-5		0.0			<u></u>			135-BB35AR-5.0-5.5
-6		0.0	moist wet	FILL FILL		fine to medium SAND, some ash, trace reddish brown, medium dense, moist t staining, Depth to Water @ 5.5 ft bgs. SILT, some gravel, trace fine sand, (5' brown, soft, wet, no odor, no staining.	o wet, no odor, no	135-BB35AR-5.0-5.5
-7 -8 -	5							135-BB35AR-7.0-7.5
-9								135-BB35AR-9.0-9.5
-10		0.0	saturated	FILL		SILT, little fine sand, trace wood, (5YR	4/3) reddish	
 	5					brown, soft, wet, no odor, no staining.		135-BB35AR-11.0-11.5
-13								135-BB35AR-13.0-13.5
-14								135-BB35AR-14.0-14.5
\neg								135-BB35AR-14.5-15.0
-15		0.0						135-BB35AR-15.0-15.5
-16	5	0.0	dry moist	OL		PEAT (70% Organic fibers, 30% organ dark reddish gray, soft to medium stiff, staining. Soils consistnet with MM UNDorg, (80% organic silt, 20% organ 4/2) dark grayish brown, moist no odor consistent with UNDorg.	dry, no odor, no ic fibers), (10YR	135-BB35AR-15.5-16.0



Boring ID: 135-BB36A

	t Name:					Drilling Company: SGS North America		
	t Number:					Drilling Method: Direct Push	Coordinates (NJSPN	
				<u>11:00:</u> 00 AM		Rig Type: Geoprobe 7855DT	Coordinates (NJSPN	AD83) y: 682318
Date Fi	inished Dr	illing:	2/25/2016	<u>5 12:20:00 Pl</u>		Core Size: 4.0 in	Boring Total Depth:	20 ft
ogge	d By: E.S	tone				Project Manager: Scott Mikaelian	Depth to Water: 5.5	
hvsic	al Locatio	n: Na	rula				Surface Elevation:	11.4 ft NAVD88
			1	1			(Not	e bgs = below ground surface)
Depth								
Range	Recovery		Moisture	USCS	Graphi	Surface Cover and Thick	ness.	Sample
t bgs)		(ppm)	Content	0000	Log			ID
(~ge/								
		0.0	dry	ASPHALT		ASPAHLT, (10YR 2/1) black, dry no oc	dor no staining.	
_	1							
-1	-	0.0	dry	ASPHALT		Road sub-base, fine to coarse SAND,	somo gravol	
_	-		-		××××	(7.5YR 4/2) brown, medium dense, dry		135-BB36A-1.5-2.0
-2		0.0	dry	FILL		staining.		133-BB30A-1.3-2.0
2	4					ASH, trace brick, (7.5YR 2.5/1) black,	dense, drv. no	
_	1	0.0	dry	FILL		odor, no staining.		
-3	1		`			fine to medium SAND, little gravel, trac	ce wood debris,	
_	-	0.0	ا جرام			(10YR 5/2) grayish brown, dense, dry,	no odor, no	135-BB36A-3.5-4.0
-4	4	0.0	dry	FILL	XXXX	staining.	/	100-0000-0.0-4.0
•				NR		ASH, some wood, (10YR 3/1) very dar	к gray, loose, dry, \mid	
						NO RECOVERY.	/	
-5		0.0	dry	FILL		ASH, trace fill debris and coal fragmen	nts (7.5YR 2.5/1)	
_	-	0.0			××××	black, dry, no odor, no staining.		135-BB36A-5.5-6.0
-6	-	0.0	wet	FILL		fine to medium SAND, some gravel, lit	tle silt. (5YR 4/3)	100-DD00A-0.0-0.0
5						reddish brown, medium dense, wet, no		
]					Depth to Water 5.5 ft bgs.	,	
-7—	1					· · · · · · · · · · · · · · · · · · ·		
_	3.5					Ŕ		135-BB36A-7.5-8.0
-8	-					X		100-DD00/ 1 -1.0-0.0
5						<u></u>		
. –				NR		NO RECOVERY.		
-9	1							
_	-							135-BB36A-9.5-10.0
-10								100-000-10.0-10.0
		0.0	wet	FILL		Silt, some gravel, little fine sand, (5YR	4/3) reddish	
						brown, wet, no odor, no staining.		
-11	-					2		
_	-					×		135-BB36A-11.5-12.0
-12	-					3		
_	4.5				\otimes	X		
40						\$		
-13	1	0.0	dry	FILL		fine to medium SAND, trace ash, (5YR	R 4/3) reddish	
_	1		, 			brown, medium dense, dry, no odor, no		135-BB36A-13.5-14.0
-14	-	0.5		DT			3	135-BB36A-14.0-14.5
_	-	0.5	dry	PT		PEAT (80% organic fibers, 20% organi	IC SIIT), (5YR 3/4)	100-00004*14.0*14.0
_15				NR		staining Soils consistent with MM		
-15		0.5	dry	PT	11 11	NO RECOVERY.	// _	
_	1	0.0	dry	OL	<u> </u>	PEAT (80% organic fibers, 20% organi	ic silt), (5YR 3/3)	
-16	1	-			F	dark reddish brown, stiff, dry slight orga	anic odor no	
_	-				F	staining. Soils consistent with MM	/ /	
-17	1				H	UNDorg (80% organic silt, 20% organic	c fibers), (10YR	
17	5				<u> </u>	5/2) gravish brown, medium stiff, dry n	o odor no staining.	
_	1				[Soils consistent with UNDorg		
-18	1				[1		
_	-				[
-19	4				<u> </u>			
					F	-		
					F	4		
-					<u> </u>	•		
-20		1						
-20					1			
-20								
_ -20								
_ -20								
_ -20								
_ -20								
-20								
-20								
-20								



Boring ID: 135-CC32A

oject	Number:	<u>6</u> 0314	351			Drilli	ng Method: Direct Push	Coordinates (NJSPNA	D83) x: 611238.7
	arted Drill			42:00	AM		ype: Geoprobe 7822DT	Coordinates (NJSPNA	
	nished Dri					Core	Size: 3.0 in	Boring Total Depth: 2	
	IBy: MI						ect Manager: Scott Mikaelian	Depth to Water: 6.4	
ysica	al Location	n: Forr	ner Narula	Prope	rty - Bld 7	7		Surface Elevation: 10	
								(Note by	gs = below ground surface)
epth nge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
	-	0.0		2	ASPHALT ASPHALT		ASPHALT. degraded ASPHALT.		_
		0.0			ONCRET		crushed CONCRETE.		-
1 — — 2 —	-	2.1	moist	3	FILL		fine to medium SAND, with cinders, 2.5/1) black, moist, slight hydrocarb hyrdocarbon staining.		135-CC32A-1.0-1.5 135-CC32A-2.0-2.5
	5	58.3	moist	3	FILL		fine to medium SAND, and fine to m		_
4	-						cinders,little concrete,moist,loose, n odor, hydrocarbon staining.	noderate petroleum	135-CC32A-4.0-4.5
5	-	0.0	moist	3	FILL		SILT, and fine sand, little fine to me fragments,cinders,(7.5YR 4/2) brow		_
<u> 3</u> —	{ }	0.0	wet	3	FILL	XXXX	staining. SILT, and fine to medium sand,trace	fine to modium group	135-CC32A-6.0-6.5
		0.0	wei	3	FILL	\otimes	(2.5YR 5/3) reddish brown, soft, we	t to saturated.no	
7							odor, no staining, DTW @ 6.4'.		
/									
_	4								
8 —									135-CC32A-8.0-8.5
_									
9 —	1				NR		NO RECOVERY.		1
_									
0		0.0			-			fine to use discussion in	135-CC32A-10.0-10.5
_ 1—		0.0	wet	3	FILL		SILT, with fine to medium sand, little (2.5YR 5/3) reddish brown,soft, wet	e nne to medium gravel, no odor,no staining.	100-0002A-10.0-10.0
_									
2—	-								135-CC32A-12.0-12.5
 3	5								
4—									135-CC32A-14.0-14.5
5—		0.0	saturated	3	FILL		fine to medium SAND, and silt, little	fine to medium aravel.	1
_							(7.5YR 4/3) brown, loose, saturated, r		135-CC32A-15.5-16.0
6—				_				(000)	135-CC32A-16.0-16.5
		3.2	moist	7	PT	<u>,</u> <u>1,,</u> <u></u>	PEAT (degraded vegetated material 20% organic silt), (7.5YR 3/2) dark moderate organic odor. Soils consis	prown, stiff, moist tent with MM.	
- 8	. 5	1.6	moist	9	OL		UNDorg SILT, (90% organic silt, 10' (7.5YR 3/3) dark brown, soft, moist staining. Soils consistent with UNDo	slight organic odor no	
_									
							JND confirmed to be 1 ft thick 3) No CCPW		· · · · · · · · · · · · · · · · · · ·



Boring ID: 135-DD30A

	Name: F						ing Company: SGS North America	Coordinates (NJSPNA	D83) x: 611283
	tarted Drill			:00:00) AM		Type: Geoprobe 7822DT	Coordinates (NJSPNAD	
	nished Dr						Size: 3.0 in	Boring Total Depth: 2	
oggeo	By: MI					Proje	ect Manager: Scott Mikaelian	Depth to Water: 9.0	
	al Locatio	n: Forr	mer Narula	Prope	erty - Bld 7			Surface Elevation: 10	
		_						(Note bg	s = below ground surface)
epth inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	nickness:	Sample ID
		0.0		2	ASPHALT		ASPHALT	_	
-	_	0.0	aliabtly	3	FILL		Subbase Gravel(Trap Rock).		135-DD30A-0.5-1.0
1 — - 2 —	-	0.0	slightly moist	3	FILL		fine to medium SAND, some cinders, slag, asphalt fragments, little coarse g black, slightly moist, no odor, no staini	gravel,(7.5YR 2.5/1) ng.	
 3 4	- 5	48.3	slightly moist	3	FILL		fine to medium SAND,and cinders,so fragments,trace wood fragments (cro staining @ 4.7-5.0), (7.5YR 2.5/1) b moist, iron oxide staining.	eosote odor and	135-DD30A-2.5-3.0
	-	0.0	moist	3	FILL		fine to medium SAND,and silt,little fi gravel,trace fill material,(7.5YR 3/2) odor, slight black staining.		135-DD30A-4.5-5.0
	4	0.0	wet	3	FILL		SILT, and fine sand, little fine to coar	se gravel grange	135-DD30A-6.5-7.0
_ 9	-						mottling, (7.5YR 4/2) brown, soft, we		135-DD30A-8.5-9.0
		0.0	wet	3	FILL		NO RECOVERY. SILT, and fine to medium sand,little gravel,(7.5YR 4/2) brown,wet,no odd		135-DD30A-10.5-11.0
1 2 3	5							-	135-DD30A-10.5-11.0
	-	0.0	wet	3	FILL		SILT, and fine to medium sand, little	fine to medium	135-DD30A-14.5-15.0
-	-						gravel,(7.5YR 4/2) brown,wet,no odd	or,no staining.	135-DD30A-15.4-15.9
6 	5	3.1	moist	7	PT		PEAT (degraded vegetated material) 20% organic),(7.5YR 3/4) dark brow organic odor,no staining. Soils consi	n,moist,moderate	135-DD30A-15.9-16.4
18 19									
-	-	1.8	moist	9	OL		UNDorg SILT, (90% organic silt, 10% fibrous with depth), moist,slight orga Soils consistent with UNDorg.	% organic fibers, less nic odor,no staining.	



Boring ID: 135-EE27A

	Name: P Number:						ng Company: SGS North America ng Method: Direct Push	Coordinates (NJSPNA	D83) x: 611350.27
	arted Drill): <u>55</u> :00	AM		ype: Geoprobe 7822DT	Coordinates (NJSPNA	
	nished Dr						Size: 3.0 in	Boring Total Depth: 2	
ogged	By: MI					Proje	ect Manager: Scott Mikaelian	Depth to Water: 7.0	
hysica	al Location	n: Forr	ner Narula	Prope	rty - Bld 9	(Street)		Surface Elevation: 9.	
		_						(Note bg	s = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and T	nickness:	Sample ID
		0.0			ASPHALT		ASPHALT.		
		0.0		3	FILL		Subbase Gravel (Trap Rock).		
		0.0		3	FILL		CINDERS, and ash, some coal fragm	ents,metal slag,(brown	135-EE27A-1.2-1.7
-2 -3	5						silt lens @ 3.8-4.1),(7.5YR 3/1) ven moist,loose,no odor,black staining.	dark gray,slightly	135-EE27A-2.0-2.5
- 4 	-	1.5	moist	3	FILL		fine to medium sand, with silt, some	sinders little ash fine to	135-EE27A-4.0-4.5
- 6			moist				medium gravel,(7.5YR 3/4) dark bro odor,slight black staining.	wn,moist,loose,no	
-7 -7	4	0.0	wet	3	FILL		SILT, and fine sand, little fine to coan reddish brown, soft, wet, no odor, no s	se gravel,(2.5YR 4/4) staining, DTW @ 7.0'.	135-EE27A-6.0-6.5
- 8 - 9	-								135-EE27A-8.0-8.5
-	-				NR		NO RECOVERY.		
-10 -11 -12 -12	. 5	0.0	wet	3	FILL		SILT, and fine sand, little fine to coa reddish brown,soft,wet,no odor,no s	rse gravel,(2.5YR 4/4) taining.	135-EE27A-10.0-10.5
-13 -14	-	0.0	moist	3	FILL		fine SAND,some silt,trace brick frag @ 14.5-15.0), (7.5YR 3/2) dark bro odor,no staining.		- 135-EE27A-14.0-14.5
-15	-	0.0	moist	3	FILL		SILT, interbedded with dark brown fi sand, trace fill material, (7.5YR 4/4) t		-
-16	-					\otimes	staining.		135-EE27A-15.7-16.2
		2.7	moist	7	PT	$\underline{\underline{\mathbf{w}}}$	PEAT (degraded vegetated material	.(80% organic fibers	135-EE27A-16.2-16.7
17 -18	. 5		moloc				20% organic silt),(7.5YR 3/3) dark b organic odor,no staining. Soils cons	rown,moist,moderate	
-19									
	1	1.8	moist	9	OL		UNDorg SILT, (90% organic silt, 10%	organic fibers) (10VP	



Boring ID: 135-EE27A

Project	Number: arted Drill	<u>60314</u> ina: ۹	<u>351</u> /1/2015 10	55.00	AM		g Method: Direct Push pe: Geoprobe 7822DT	Coordinates (NJSPNAI Coordinates (NJSPNAD	
Date Fir	nished Dri	lling:	9/1/2015 1	1:35:0	0 AM		Size: 3.0 in	Boring Total Depth: 20	
.ogged	By: MI					Projec	t Manager: Scott Mikaelian	Depth to Water: 7.0	
	Location	: Forn	ner Narula	Prope	rty - Bld 99				
								(Note bg:	s = below ground surface)
Depth Range ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
Depth Range ft bgs)		PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and T	erate organic odor,no	
						1			

	Name: P	PG Gar	field Ave				ng Company: SGS North America	Coordinatos (NISPNAD	83) v: 611436 2		
	Number: arted Drill			3.00.00			ng Method: _Direct Push ype: Geoprobe 7822DT	Coordinates (NJSPNAD Coordinates (NJSPNAD			
	nished Dri						Size: 3.0 in	Boring Total Depth: 20			
	By: LM	g	0/11/2010	0.00.0			ct Manager: Scott Mikaelian	Depth to Water: 6.4			
	al Location	n: Forr	ner Narula	Prope	rty - 99 Aı			Surface Elevation: 8.7	: 8.7 ft NAVD88		
								(Note bgs	= below ground surface)		
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID		
		0.0	dry		ASPHAL ⁻		ASPHALT.				
		0.0		3	FILL		Subbase Gravel, (Trap Rock).				
- 1		0.0	dry	3	FILL		CINDERS, some brick, fine to medium	gravel (trace red fine	135-FF23A-1.0-1.5		
_							\sim sands thourghout),(10YR 3/3) dark b				
2	4	0.0	moist	3	FILL		staining. fine to medium sand,some ash,wood black,moist,slight hydrocarbon odor,h	fragments,(10YR 2/1)			
									135-FF23A-3.0-3.5		
- 4					NR		NO RECOVERY.				
- 5 - 6		10.2	moist	6	FILL		fine to medium SAND, some cinders a and tar-like material @5.0-6.5), (10Y moist, slight naphthalene odor, hydroc. @ 6.4'.	R 2/1) black,	135-FF23A-5.0-5.5		
		0.0	moist	3	FILL		SILT, and ash, some fine to medium	gravel (10YR 4/3)			
- 7		0.0		3	FILL		brown,moist,no odor,no staining.	graver, (1011(4/3)	135-FF23A-7.0-7.5		
-8	5	0.0	moist	5			SILT,some fine to medium sand,little gravel,(5YR 3/2) dark reddish brown, staining.				
- 9 -10		0.0	moint	3	FILL		CIII T come first cond medium to coope		135-FF23A-9.0-9.5		
_		0.0	moist		FILL		SILT, some fine sand, medium to coar reddish brown, moist, no odor, no stain				
11							· · · · · · · · · · · · · · · · · · ·				
									135-FF23A-11.0-11.5		
_								-	135-FF23A-11.5-12.0		
12 <u></u>	4	0.0	moist	7	PT		PEAT (degraded vegetated material), 20% organic silt)(7.5YR 4/2) brown,n odor,no staining. Soils consistent with	noist,moderate organic	135-FF23A-12.0-12.5		
13											
_						<u>// <u>\</u> <u>\</u></u>					
14					NR	N1/ N1/	NO RECOVERY.				
_											
15											
10		0.0	moist	9	OL	1	UNDorg SILT(90 % organic silt, 10%	organic fibers),(7.5YR			
_						<u>[]</u>	4/2) brown,moist,slight organic odor,r consistent with UNDorg.	io staining. Solis			
16						<u>]</u>	sonoistant with oneorg.				
_											
17						[]					
.,	5					<u> </u>]					
_	5					1					
18											
19— —		0.0	moist	8	SM		fine to medium SAND,little silt,trace c (7.5YR 6/1) gray,moist, slight organic				



Boring ID: 135-FF24A

ate St	Number: arted Drill	ing: 9	/14/2015 9			Rig T	ng Method: Direct Push ype: Geoprobe 7822DT	Coordinates (NJSPNA Coordinates (NJSPNA)83) y: 682586.1
	nished Dri	illing:	9/14/2015	10:20	:00 AM		Size: 3.0 in	Boring Total Depth: 2	0 ft
	IBy: LM						ct Manager: Scott Mikaelian	Depth to Water: 6.4	C
nysica	al Location	n: Forr	ner Narula	Prope	erty - 99 An	nex (Stree	et)	Surace Elevation: 9.1	
								(Note bg	s = below ground surface)
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
-	-	0.0	dry	2	ASPHALT		ASPHALT, and subbase gravel(Tra ashpalt fragments.	p Rock) with trace	
2	4	0.0	moist	3	FILL		ASH,some fine to medium gravel,(7 black,moist,no odor,no staining.	7.5YR 2.5/1)	135-FF24A-1.2-1.7
3 — 4 —									135-FF24A-3.0-3.5
	-	0.0	maint		NR	×××××	NO RECOVERY.		135-FF24A-5.0-5.5
_		0.0	moist	3	FILL		ASH,some fine to medium gravel,(7 black,moist,no odor,no staining.	.51K 2.5/1)	
6 —		0.0	moist	3	FILL		fine to medium SAND,some medium black staining,(10YR 2/2) very dark DTW @ 6.4'.	brown,moist,no odor,	
7 — 8 —	. 5	0.0	moist	3	FILL		fine to medium SAND,some silt,fine black staining,(10YR 5/3) brown,mo	e to medium gravel,slight bist,no odor.	135-FF24A-7.0-7.5
9 — — 10—	-	0.0	moist	3	FILL		fine to medium SAND,trace concre reddish brown,moist,no odor,no sta		135-FF24A-9.0-9.5
11—	-								
	4	0.0	saturated	3	FILL		fine SAND and coarse gravel,some reddish brown,saturated,no odor,no	silt,(2.5YR 3/3) dark staining.	135-FF24A-11.0-11.5
13—		1.1	moist	9	OL		UNDorg SILT,(80% organic silt,20%	6 organic fibers), (10YR	135-FF24A-12.8-13.3
_							4/3) brown, moist,moderate organic consistent with UNDorg.	odor,no staining.Soils	135-FF24A-13.3-13.8
14					NR		NO RECOVERY.		
15— — 16— _ 17—		1.2	moist	9	OL		UNDorg SILT, (90 % organic silt, 10 (10YR 4/3) brown,moist,no odor,no consistent with UNDorg.		
18	5								
19—		0.0	moist	8	SM		fine SAND, (10YR 6/1) gray,moist, consistent with UNDno.	no odor,no staining. Soils	

Site: Site Site Locatio Geologist:	on: Jersey P. Kelly, I ompany: E		Drilling Drilling Drilling Drilling Drilling Drilling Drilling	npletic n 1 ine y ates	1.08 K: 682	007 Y: 610954.3	ENSRAECOM135-MW1APage: 1 of 2	
도 Cor	WellWell ConstructionConstructionDescriptionDiagramSample Infor			PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
$ \begin{bmatrix} -0 \\ -1 \\ -1 \\ -2 \\ -2 \\ -3 \\ -4 \\ -4 \\ -5 \\ -6 \\ -7 \\ -8 \\ \end{bmatrix} $		2 in dia PVC Riser #00 Sand Seal #1 Sand Filter Pack 2 in dia 10-Slot PVC	Screen	0.0 0.0 1.5 ppm 0.0 0.0 0.0	1 4 3 2 3 1 1		Brown medium S/ and Ceramic peice Gray fine COBBLI Black SILT and A fine Gravel. Grey-Brown ASH, and Coal fragmen Gray-Brown ASH little brick fragmen Dark Gray (10YR crushed Fill Mater very fine to mediu odor. Brown (7.5YR 4/3 trace coarse Grav	ES SH, some brick fragments and some fine Gravel, little Brick ts, wet. and SILT, some fine Gravel, its, coal pieces and glass, wet. 4/1) ASH, some Silt and ial (shell, wood, coal), little m Sand, very loose, wet. No) SILT, trace very fine Sand, el, very loose, moist. No odor.) SILT, trace coarse Gravel,

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, M ng Company: Ei or N. Moyer	WellCity, NJElevaA. MerdingerStateChelbergersCoor	DI	1.08 X: 682	2007 Y: 610954.3	ENSR AECOM 135-MW1A Page: 2 of 2	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	dd)	Blows/6"	Lithology	Lithol	logic Description
- 9 10			0.0	1 WH			wn (10YR 4/2) SILT, little fine trace fine angular Gravel and ose. No odor.
- - 11 - - 12			0.0	WH 1 1		little medium angu	wn (10YR 4/2) SILT, some to ular Gravel, little fine to ice Clay, wet, very loose. No
- 13 -			0.0	2 2 2	× × × × × × × × × × × × × × × × × × ×	little medium angu	wn (10YR 4/2) SILT, some to ular Gravel, little fine to ice Clay, wet, very loose. No
- 14			0.0	2) SILT, some very fine to fine Gravel, wet, very loose. No
— 15			0.0	3 2		Brown (10YR 4/3) moist, very loose.) SILT, trace coarse Sand, No odor.
				1	× × × × × × × × × × × × × × × × × × ×	End of boring at 1	6 ft.

Site I Geolo Drilli	t: PPG Industri Site 135 Location: Jersey ogist: P. Kelly, ng Company: E er N. Moyer	City, NJ M. Merdinger	Drilling Well Con Elevation State Pla Coordina Drilling	mpletion 1 n 1 nne y ates	0.0 ft X: 682	2007 Y: 610948 Rotary	ENSR AECOM 135-MW1B Page: 1 of 4	
Depth (ft)	WellWell ConstConstructionDescriptionDiagramSample Info		and	and $\begin{bmatrix} a \\ c \\$		Lithology	Lithol	ogic Description
$ \begin{bmatrix} -0 \\ - \\ -1 \\ -2 \\ -2 \\ - \\ -3 \\ - \\ -4 \\ - \\ -5 \\ - \\ -6 \\ - \\ -7 \\ - \\ -8 \\ \end{bmatrix} $		2 in dia PVC Riser Bentonite-cement Gr 6 in Steel Casing	out	0.0 0.0 0.0 0.0	1 4 3 2 3 1 1		Brown medium S/ and Ceramic peice Grey-Brown ASH, and Coal fragmen Dark Gray (10YR crushed Fill Mater very fine to mediu odor. Brown (7.5YR 4/3 trace coarse Grav	some fine Gravel, little Brick ts, wet. 4/1) ASH, some Silt and ial (shell, wood, coal), little m Sand, very loose, wet. No) SILT, trace very fine Sand, rel, very loose, moist. No odor.) SILT, trace coarse Gravel,

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	Well CCity, NJElevationM. MerdingerState P	ompletion on lane nates	10.0 ft X: 682	2007 Y: 610948 Rotary	ENSR AECOM 135-MW1B Page: 2 of 4	
Depth (ft)	Well Construction Diagram	Construction Description and			Lithology	Litho	ogic Description
- 9 10			0.0	1 WH			wn (10YR 4/2) SILT, little fine trace fine angular Gravel and ose. No odor.
- - 11 - - 12			0.0	WH 1 1		little medium angu	wn (10YR 4/2) SILT, some to Jlar Gravel, little fine to ce Clay, wet, very loose. No
- 13 -			0.0	2 2 2	× × × × × × × × × × × ×	little medium angu	wn (10YR 4/2) SILT, some to Jlar Gravel, little fine to ce Clay, wet, very loose. No
- 14			0.0	2 3		Sand, trace fine G odor Brown (10YR 4/3)	SILT, some very fine to fine Gravel, wet, very loose. No SILT, trace coarse Sand,
— 15 -			0.0	2		moist, very loose.	
- 16			1.3	1		Very Dark Gray (7	7.5YR 3/1) PEAT, organics,

Site L Geolo Drilli	t: PPG Industrie Site 135 Cocation: Jersey ogist: P. Kelly, I ng Company: E or N. Moyer	City, NJ M. Merdinger	Drilling Well Con Elevation State Pla Coordina Drilling	npletio 1 ¹ ne y ates	0.0 ft K: 682	2007 Y: 610948 Rotary	ENSR AECOM 135-MW1B Page: 3 of 4	
Depth (ft)	WellWell ConstConstructionDescriptionDiagramSample Info		and Canadian		Blows/6"	Lithology	Lithol	ogic Description
- - 17 - 18				36.1	1 WH		moist, cohesive, v	rery soft. Sulfur odor.
- 19 20				27.3 71.7 67.2	3 1 2 1		Organics and fine soft. No odor. Dark Greenish Gr	ay (Gley2 N4/0) SILT, little Sand, moist, cohesive, very ay (Gley2 N4/0) SILT, some d, moist, cohesive, very soft.
- 21 -				52.1	1 2 1			ay (Gley2 N4/0) SILT, some d, moist, cohesive, very soft.
- 22				8.5	1 3		No Recovery	
- 23				16.4	3 3		Dark Greenish Gr Clay, trace very fi Sulfur odor.	ay (Gley2 N4/0) SILT, some ne Sand, moist, cohesive, soft.
- 24				9.7	4		/	

Site L Geolo Drilli	t: PPG Industri Site 135 cocation: Jersey gist: P. Kelly, ng Company: F r N. Moyer	City, NJ Elevation M. Merdinger State Pl	ompletio on 1 ane y ates	0.0 fi K: 682	2007 Y: 610948 Rotary	ENSR AECOM 135-MW1B Page: 4 of 4	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithologic Description	
- 25			14.0	5		SAND, some Silt, Sulfur odor. Very Dark Gray (2	ay (Gley2 N4/0) medium trace Clay, moist, very loose. 2.5Y 3/1) SILT, some Clay, ine Sand, moist, cohesive,
- 26		#00 Sand Seal #1 Sand Filter Pack	1.8	3 4 3		Very Dark Grayish coarse to fine SAI	n Brown (10Y 3/2) graded ND, little medium to fine noist, very loose. No odor.
- 27 -		2 in dia 10-Slot PVC Screen	0.2	2		coarse to fine SA	n Brown (10Y 3/2) graded ND, little medium to fine noist, very loose. No odor.
- 28			0.0	3 9	<u> </u>	fine SAND, little m moist, loose. No	/
29			0.0	6			n Brown (10Y 3/2) SILT, some e to fine Sand, moist, cohesive,
- 30			0.0	9 10		Reddish Brown (5	YR 4/3) medium SAND, some gular Gravel, moist, loose. No
			0.0	11 9		Weak Red (10R 4 moist, medium de No Recovery	/4) fine SAND, trace Silt, nse. No odor.
			0.0	9			/4) graded fine to very fine moist, loose. No odor.
- 32			0.0	7		End of boring at 3	2.5 ft.

Site I Geolo Drilli	t: PPG Industri Site 135 Location: Jersey ogist: P. Kelly, T ng Company: E er N. Moyer	Well CCity, NJElevatiM. MerdingerState PCichelbergersCoordi	lane y	9.9 ft] X: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 1 of 12	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Litho	ogic Description
$ \begin{bmatrix} -0 \\ - \\ -1 \\ -2 \\ - \\ -3 \\ - \\ -4 \\ - \\ -5 \\ - \\ -6 \\ - \\ -7 \\ - \\ -8 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$		2 in dia PVC Riser Bentonite-cement Grout 6 in and 10 in Steel Casings 135-1CA (0.6-1.1) Cr+6, TAL Metals 135-1CB (1.8-2.3) Cr+6, TAL Metals 135-1CBD (1.8-2.3) Cr+6, TAL Metals 135-1CC (4.5-5.0) Cr+6, TAL Metals 135-1BE (5.2-5.7) Cr+6, TAL Metals	0.0 0.0 0.0 0.0	1 4 3 2 3 1 1 1		Brown medium S/ and Ceramic peic Red-Brown SILT a fragments, little gl Grey-Brown ASH, and Coal fragmen Gray-Brown ASH, little brick, glass a Dark Gray (10YR crushed Fill Mater very fine to mediu odor. Brown (7.5YR 4/3 trace coarse Grav	and ASH, some brick ass fragments. some fine Gravel, little Brick ts, wet. some fine to medium Gravel, nd coal pieces, wet. 4/1) ASH, some Silt and ial (shell, wood, coal), little m Sand, very loose, wet. No) SILT, trace very fine Sand, rel, very loose, moist. No odor.) SILT, trace coarse Gravel,

Site L Geolo Drillin	t: PPG Industrie Site 135 Jocation: Jersey ogist: P. Kelly, I ng Company: E or N. Moyer	City, NJ Elevation M. Merdinger State Pla	mpletion n 9 nne 2 ates	9.9 ft 1 X: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 2 of 12	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Litho	logic Description
—9 - — 10		135-1BF (9.0-9.4) Cr+6, TAL Metals	0.0	WH	× × × ×	Dark Grayish Brov to medium Sand, Clay, wet, very loo No Recovery	wn (10YR 4/2) SILT, little fine trace fine angular Gravel and ose. No odor.
- - 11 - - 12			0.0	WH 1 1		little medium angu	wn (10YR 4/2) SILT, some to ular Gravel, little fine to ce Clay, wet, very loose. No
- 13 		135-1BG (13.0-13.5) Cr+6, TAL Metals	0.0	2 2 2	× × × × × × × × × × × × ×	little medium angu	wn (10YR 4/2) SILT, some to Jlar Gravel, little fine to ce Clay, wet, very loose. No
- 14		135-1BH (14.0-15.0) Cr+6, TAL Metals 135-1BHD (14.0-15.0) Cr+6, TAL Metals	0.0	2		Brown (10YR 4/3)	SILT, some very fine to fine Gravel, wet, very loose. No
- 15			0.0	2	× × × × × × × × × × × × × × × × × × ×	Brown (10YR 4/3) moist, very loose.	SILT, trace coarse Sand, No odor.
— 16 -		135-1BI (16.0-17.0) MS/MSD, Cr+6, TAL Metals	1.3	1			7.5YR 3/1) PEAT, organics, ery soft. Sulfur odor.
- 17			36.1	wн			

·

Site L Geolo Drillin	t: PPG Industrie Site 135 Socation: Jersey Sgist: P. Kelly, I ng Company: E Sr N. Moyer	City, NJ Elevatio M. Merdinger State Pla	mpletio n ⁹ ane y ates	9.9 ft l K: 682	ENSR AECOM 135-MW1C Page: 3 of 12		
Depth (ft)	EWellWell ConstEConstructionDescriptionDiagramSample Info		PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 18		135-1BJ (17.3-18.3) MS/MSD, Cr+6, TAL Metals	27.3				
		135-1BK (18.3-18.8) Cr+6, TAL Metals	71.7	3 1		Organics and fine soft. No odor. Dark Greenish Gr	ay (Gley2 N4/0) SILT, little Sand, moist, cohesive, very ay (Gley2 N4/0) SILT, some
			67.2	2		No odor.	d, moist, cohesive, very soft.
		135-1BL (21.3-22.3)	52.1	1 2	· · ·	Clay and fine San	ay (Gley2 N4/0) SILT, some d, moist, cohesive, very soft.
- 22		Cr+6, TAL Metals 135-1BLD (21.3-22.3) Cr+6, TAL Metals	8.5	1		Sulfur odor.	
- 23			16.4	3 3		Dark Greenish Gr Clay, trace very fil	ay (Gley2 N4/0) SILT, some ne Sand, moist, cohesive, soft.
24			9.7	3		Sulfur odor.	ay (Gley2 N4/0) medium
- 25			14.0	5 1 3		SAND, some Silt, Sulfur odor. Very Dark Gray (2	trace Clay, moist, very loose. 2.5Y 3/1) SILT, some Clay, ine Sand, moist, cohesive,

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	City, NJ Elevation M. Merdinger State Pla	mpletio n 9 nne 2 ates	9.9 ft 1 X: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 4 of 12	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Litho	logic Description
$ \begin{array}{c} -26\\ -\\ -27\\ -\\ -28\\ -\\ -29\\ -\\ -30\\ -\\ -31\\ -\\ -32\\ -\\ -32\\ -\\ -33 \end{array} $		135-1BM (26.3-26.8) Cr+6, TAL Metals	1.8 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	4 3 2 6 3 9 6 9 10 11 9 7 7 7 6 2		coarse to fine SAI rounded Gravel, n No Recovery Very Dark Grayish coarse to fine SAI rounded Gravel, n Very Dark Grayish fine SAND, little m moist, loose. No Very Dark Grayish Clay and very fine medium. No odor No Recovery Reddish Brown (5 fine to medium an odor. Weak Red (10R 4 SAND, trace Silt, 32.5-32.6 ft., mois	h Brown (10Y 3/2) SILT, some e to fine Sand, moist, cohesive, c. SYR 4/3) medium SAND, some gular Gravel, moist, loose. No gular Gravel, moist, loose. No d/4) fine SAND, trace Silt, inse. No odor.
			0.0	4 3		No Recovery	

Site L Geolo Drilli	t: PPG Industrie Site 135 cocation: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	WellCity, NJElevaM. MerdingerichelbergersCoord		9.9 ft 1 X: 682	ENSR AECOM 135-MW1C Page: 5 of 12		
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 35				5			
-			0.0	4		Weak Red (10R 4 moist to wet, loose	/4) SILT and very fine SAND, e. No odor.
— 36 -			0.0	7		No Recovery	
— 37			0.0	3		Weak Red (10R 4 fine Sand, wet, loo	/4) SILT, some to little very ose. No odor.
				7 10	<u> </u>	No Recovery	
				9			
-			0.0	6 6		Weak Red (10R 4 fine Sand, wet, loo	/4) SILT, some to little very ose. No odor.
40 			0.0	6 6		No Recovery	
41			0.0	3	· · ·		/4) SILT, some to little very ry loose. No odor.
- 42			0.0	4		/	/4) SILT, wet, very loose. No
			0.0	4	· <u></u> · <u></u> ·	No Recovery	

Site L Geolo Drilli	t: PPG Industrie Site 135 cocation: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	WCity, NJM. MerdingerStichelbergersControl	Drilling Date:12/13/2007Well Completion Date:3/30/2007Elevation9.9 ft NAVD88State Plane CoordinatesX: 682131.2Y: 610951.4Drilling Method:HSA/Mud Rotary					ENSR AECOM 135-MW1C Page: 6 of 12
Depth (ft)	Well Construction Diagram	Well Constructi Description an Sample Informat	nd	PID (ppm)	Blows/6"	Lithology	Litho	logic Description
-					4		odor.	4/4) SILT, wet, very loose. No
- 44				0.0	4	· · · · · · · · · · · · · · · · · · ·	wet, loose. No oc	
-					5		No Recovery	
- 45 -				0.0	4			1/4) SILT, some very fine Sand, ittle Weak Red (10R 4/4) Silt, dor.
- 46				0.0	5			
47					6		No Recovery	
-				0.0	4	<u> </u>	Weak Red (10R 4 interbedded with I wet, very loose.	/4) SILT, some very fine Sand, ittle Weak Red (10R 4/4) Silt, No odor.
48					2		No Recovery	
					2			
- 49				0.0	3	· · · · · · · · · · · · · · · · · · ·	interbedded with I	(4) SILT, some very fine Sand, ittle Weak Red (10R 4/4) Silt,
- 50				0.0	5 5		wet, loose. No oc	lor.
				0.0	4		Weak Red (10R 4 cohesive, soft. No	(/4) SILT, little Clay, moist, o odor.
51				0.0	4	· · · ·	No Recovery	/
					4	· · · · · · · · · · · · · · · · · · ·	Weak Red (10R 4 Sand, very loose,	(/4) SILT, little to trace very fine wet. No odor.

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	City, NJ M. Merdinger	Drilling I Well Cor Elevation State Pla Coordina Drilling I	npletio 1 9 ne y ates	9.9 ft 1 K: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 7 of 12	
Depth (ft)	Well Construction Diagram	uction and mation	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description	
- 52				0.0	3 4	<u></u>	No Recovery	
53 				0.0	3 4			/4) SILT, trace to none very ose, wet. No odor.
54 				0.0	5 6		,	
- 55				0.0	4 3			/4) SILT, trace to none very ose, wet. No odor.
- 56					4	<u> </u>	No Recovery	
— 57 -				0.0	4		Weak Red (10R 4 fine Sand, loose, v	/4) SILT, trace to none very wet. No odor.
— 58 _				0.0	5			
— 59				0.0	9 3			/4) SILT, trace to none very n dense, wet. No odor.
- 60				0.0	9 11		No Recovery	

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	Well ControlCity, NJElevationM. MerdingerState Plane	ompletio on 9 lane y nates	9.9 ft 1 X: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 8 of 12	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 61 - 62 - 63 -			0.0	15 6 10 10 12 1 3		fine Sand, loose, v	/4) SILT, trace to none very
- 64 - 65			0.0	9 9		No Recovery	
- 66			0.0	8		loose, wet. No od	/4) SILT, trace to none Clay, lor.
- 67			0.0	4		No Recovery	
- 68			N/A	4 2 2			
- 69				2			

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	City, NJ E M. Merdinger S ichelbergers C	Drilling D Vell Com Elevation State Plan Coordinat Drilling M	pletio 9 ne X tes	9.9 ft N K: 682	007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 9 of 12	
Depth (ft)	Well Construction Diagram	Well Construct Description a Sample Informa	nd	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 70				0.0	2 2 2 2		Red (10R 4/4) SIL	y (10R 4/1) CLAY and Weak T with little to trace very fine d, cohesive, very soft, moist.
- 71				0.0	2 WH 1			
- 72				0.0	2 1			
- 73				0.0	3 2		Red (10R 4/4) SIL	y (10R 4/1) CLAY and Weak T with little to trace very fine d, cohesive, soft, moist. No
- 74 - 75				0.0	3			
- 76				0.0	WH 1		interbedded with s	/4) SILT, some Clay, some Weak Red (10R 4/4) Silt d, moist, cohesive, very soft.
- 77				0.0	2 3			
				0.0	WH 1		interbedded with s	/4) SILT, some Clay, some Weak Red (10R 4/4) Silt d, moist to wet, cohesive, very

Site L Geolo Drillin	t: PPG Industrie Site 135 Jocation: Jersey gist: P. Kelly, I ng Company: E r N. Moyer	City, NJ M. Merdinger	Drilling Date:12/13/2007Well Completion Date:3/30/2007Elevation9.9 ft NAVD88State Plane CoordinatesX: 682131.2Y: 610951.4Drilling Method:HSA/Mud Rotary					ENSR AECOM 135-MW1C Page: 10 of 12
Depth (ft)	Well Construction Diagram	Well Constr Descriptior Sample Infor	n and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
70						<u></u>	soft. No odor.	
- 78				0.0	2		No Recovery	
					4			
79				0.0	2		Gray (Gley1 5N/0) interbedded with s) SILT, some Clay, some Weak Red (10R 4/4) Silt,
					3	······································	trace very fine Sa odor.	nd, moist, cohesive, soft. No
80				0.0	3			
					5			
81				0.0	3	<u>· · · · · · · · · · · · · · · · · · · </u>		
					4	······································		
- 82				0.0	4			
					4	<u></u>		
- 83				0.0	1	· · · · · · · · · · ·		
					3			
- 84				0.0	4	· · · · · · · · · · · · · · · · · · ·		
					5		No Recovery	
- 85				0.0	3	<u> </u>) SILT, some Clay,
					3	· · · · · · · · · · · ·		some Weak Red (10R 4/4) Silt, nd, moist, cohesive, soft. No
- 86				0.0	4	· · · · · · · · ·		

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: P. Kelly, I ng Company: E er N. Moyer	City, NJ M. Merdinger ichelbergers	Drilling Date:12/13/2007Well Completion Date:3/30/2007Elevation9.9 ft NAVD88State Plane CoordinatesX: 682131.2Y: 610951.4Drilling Method:HSA/Mud Rotary					ENSR AECOM 135-MW1C Page: 11 of 12
Depth (ft)	Well Construction Diagram	Well Construc Description a Sample Inform	and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- - 87 - 88 -				0.0	5 3 2 3		interbedded with s) SILT, some Clay, some Weak Red (10R 4/4) Silt, nd, moist, cohesive, soft. No
- - 89 - 90				0.0	3 3 4 3		interbedded with t) SILT, some Clay, race Weak Red (10R 4/4) Silt, nd, moist, cohesive, soft. No
- - 91 - 92				0.0	3 2 2 2		interbedded with t and Weak Red (1	/4) SILT, trace Clay, race Gray (Gley1 5N/0) Clay 0R 4/4) Silt and very fine sive, very soft. No odor.
- 93 -				0.0	4 4 3		No Recovery	
- 94				N/A	4			

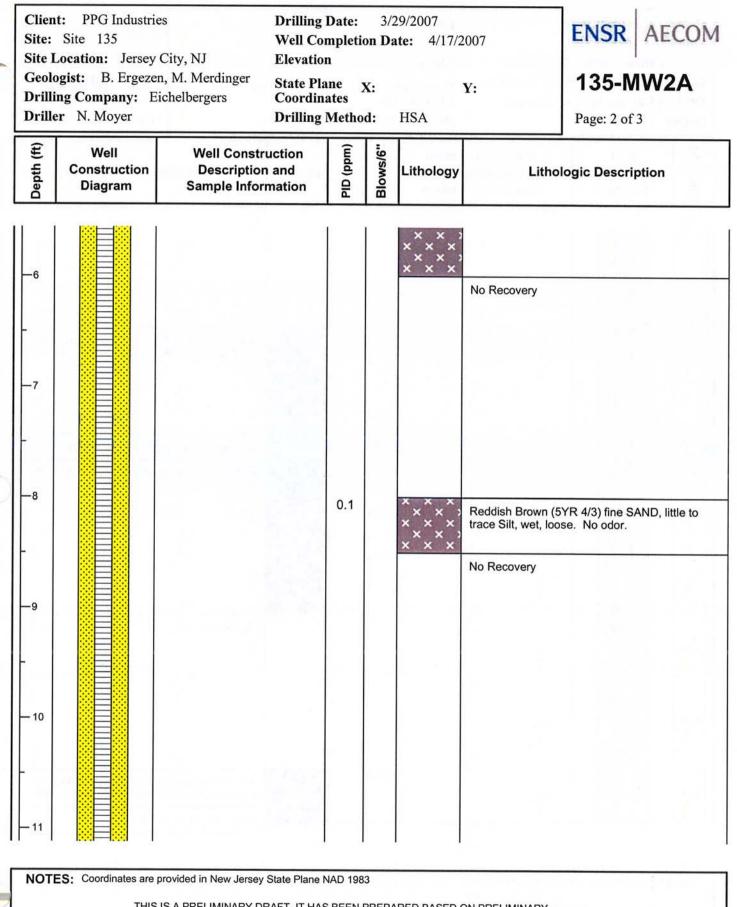
Site L Geolo Drillin	t: PPG Industri Site 135 cocation: Jersey gist: P. Kelly, T ng Company: E r N. Moyer	Well CoCity, NJM. MerdingerState Pla	mpleti n 9 ane 2 ates	9.9 ft 1 X: 682	2007 Y: 610951.4 Rotary	ENSR AECOM 135-MW1C Page: 12 of 12	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
95		#00 Sand Seal	0.0	2 5		Weak Red (10R 5 wet, cohesive, me	/4) SILT, little Clay, moist to dium. No odor.
— 96 -		#1 Sand Filter Pack	0.0	7 9		No Recovery	
- 97 -			0.0	5 5	<mark></mark>	moist, loose. No	/4) very fine SAND, some Silt, odor. /4) SILT, and some
— 98 -		2 in dia 10-Slot PVC Screen	0.0	5			wet, cohesive, medium. No
— 99 -			0.0	10		No Recovery Weak Red (10R 5 moist, loose. No d	/4) very fine SAND and SILT, odor.
— 100				7 5		No Recovery	
— 101			0.0	7 10	· · · · · · · · · · · · · · · · · · ·	Weak Red (10R 5 moist, loose. No o	/4) SILT, little very fine Sand,
- 102 -			0.0	50/4 NULL		Weak Red (10R 5	/4) fine to medium sub-angular ery fine Sand and Silt, moist,
_ ₁₀₃ _						No Recovery End of boring at 1	03 ft.

Site L Geolo Drilli	t: PPG Industri Site 135 Location: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	Well City, NJ Eleva en, M. Merdinger Eichelbergers Coor	ntion ^{9.1}	3/29/200 on Date: ft NAVD88 K: d: HSA	07	ENSR AECOM 135-MW2A Page: 1 of 3	
Depth (ft)	(±)WellWell Construction(±)ConstructionDescription(±)DiagramSample Infor		dd)	9/swola	Litho	logic Description	
- -		2 in dia PVC Riser #00 Sand Seal	0.50	* * * * * * * *	× ×		fine to coarse SAND, little fine I, trace organics, glass, loose, dor.
2		#1 Sand Filter Pack	1.00 0.8 0.50	× × × × × × × × × ×	× × ; × × ; × × ;	SLAG, little organ odor. Very Dark Brown	coarse to fine SAND and lics, coal, moist, loose. No (7/5YR 2.5/2) coarse to fine g, little organics, trace coarse pist. No odor.
-			0.3	× × × × ×	X	medium to fine G	1) coarse to fine SAND, ravel, little Fill Material (coal, anics, moist. No odor.
—3		2 in dia 10-Slot PVC Screen	0.20	× × × ×	^x^3	Very Dark Brown SAND, trace Silt, odor.	(7.5YR 2.5/2) medium to fine trace Clay, Slag, moist. No
-			0.80	× × × ×	× × × × × × × × × × × × × × × × × × ×	SAND, little Clay, Black (10YR 2/1)	10YR 3/1) fine to very fine metal, moist. No odor.
-4			0.2	× × × ×	× × × × × ×	moist. No odor. Black (10YR 2/1) coarse to fine Gra	coarse to fine SAND, some avel, little organics, coal, wood,
			0.50	× × × × ×	× × , × × , × × ,	very moist. Some	e odor.
5 			0.2	****	*_*;	EVENT 12/21/06 SILT, some very f	GY USED FROM GEOPROBE Reddish Brown (5YR 4/3) fine to medium Sand, little nd Clay, wet, loose. No odor.

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

1

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



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

Site L Geolo Drilli	t: PPG Industrie Site 135 cocation: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	City, NJ Elevation n, M. Merdinger State Pl Coordin	ompletion on lane x	:	007 Y :	ENSR AECOM 135-MW2A Page: 3 of 3	
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	logic Description
- - 12 - 13 - 14 			0.0		* * * * * * * * * * * * * * * * * * *	SILT, little to trace odor. Gray large rounde	3) fine to coarse SAND and a Clay, wet, cohesive, soft. No ad GRAVEL, dense. noist, cohesive, soft. Sulfur
- 16			146.0			Very Dark Gray (5 organics, moist, c End of boring at 1	5Y 3/1) organic CLAY, little ohesive, soft. Sulfur odor. 6.5 ft.

NOTES: Coordinates are provided in New Jersey State Plane NAD 1983 THIS IS A PRELIMINARY DRAFT. IT HAS BEEN PREPARED BASED ON PRELIMINARY INFORMATION AND ON ASSUMPTIONS. NO ONE MAY RELY ON THIS DRAFT. IT IS SUBJECT TO CHANGE AS ADDITIONAL INFORMATION BECOMES AVAILABLE OR IS CLARIFIED.

Site L Geolo Drilli Drille	t: PPG Industri Site 135 cocation: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	City, NJ Eleva n, M. Merdinger State Cichelbergers Coord	Plane y linates ng Metho	on Da 0.34 X: 682 d:		Y: 611416	ENSR AECOM 135-MW2B Page: 1 of 6
Depth (ft)	Well Construction Diagram	Well Construction Description and Sample Information	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- - 1		2 in dia PVC Riser Bentonite-cement Grout 6 in Steel Casing	0.50				fine to coarse SAND, little fine , trace organics, glass, loose, dor.
-			1.00		× × × × × × × × × × × × × × × × × × ×		coarse to fine SAND and ics, coal, moist, loose. No
-2			0.8 0.50				(7/5YR 2.5/2) coarse to fine J, little organics, trace coarse ist. No odor.
_			0.3		× × × × × × × × × × ×	medium to fine Gr	1) coarse to fine SAND, avel, little Fill Material (coal, anics, moist. No odor.
3			0.20		× × × × × × × × × × × ×		(7.5YR 2.5/2) medium to fine trace Clay, Slag, moist. No
-			0.80		× × × × × × × × × × × × × × × × × × ×	SAND, little Clay,	0YR 3/1) fine to very fine metal, moist. No odor.
4			0.2		× × × × × × × × × × × × × × × × × × ×	coarse to fine Gra moist. No odor. Black (10YR 2/1)	coarse to fine SAND, some vel, little organics, coal, wood, coarse to fine SAND, some
			0.50			coarse to fine Gra very moist. Some	vel, little organics, coal, wood, odor.
5			0.2		× × × × × × × × × × × × × × ×	EVENT 12/21/06 SILT, some very f	BY USED FROM GEOPROBE Reddish Brown (5YR 4/3) ine to medium Sand, little nd Clay, wet, loose. No odor.

Site L Geolog Drillin Drille	: PPG Industrie Site 135 ocation: Jersey gist: B. Ergeze ng Company: E r N. Moyer	City, NJ n, M. Merdinger	Drilling Well Con Elevation State Pla Coordina Drilling	npletion n ine ates Metho	10.34 X: 682 d:	ENSRAECOM135-MW2BPage: 2 of 6		
Depth (ft)	Well Construction Diagram	Well Constr Descriptior Sample Infor	n and	and 🔤 🕺 Litho			Lithol	ogic Description
4 6 - -7 - -8 - -9 - -10 -	Diagram	Sample Infor	mation	0.1			No Recovery Reddish Brown (5 trace Silt, wet, loo No Recovery	YR 4/3) fine SAND, little to se. No odor.

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	City, NJ n, M. Merdinger	Drilling Well Con Elevation State Pla Coordina Drilling	mpletion 1 n 1 nne 2 ates	10.34 X: 682	007 Y: 611416 Rotary	ENSR AECOM 135-MW2B Page: 3 of 6	
Depth (ft)	Well Construction Diagram	Well Constr Descriptior Sample Infor	n and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 12 - 12 - 13 - 14 -				0.0		$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	SILT, little to trace odor. Gray large rounde	B) fine to coarse SAND and Clay, wet, cohesive, soft. No ed GRAVEL, dense. noist, cohesive, soft. Sulfur
- 15 - 16 -				146.0				Y 3/1) organic CLAY, little ohesive, soft. Sulfur odor.

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

Site L Geolo Drilli	t: PPG Industrie Site 135 Location: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	City, NJ n, M. Merdinger	Drilling Well Con Elevation State Pla Coordin Drilling	mpletic n 1 ine y ates	0.34 K: 682	2007 Y: 611416 Rotary	ENSR AECOM 135-MW2B Page: 4 of 6	
Depth (ft)	Well Construction Diagram	Well Constr Descriptior Sample Infor	n and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
— 17				187.0			PEAT, organics, n odor.	noist, cohesive, soft. Sulfur
- 18 -				33.6			Gray (Gley N5/0) moist, medium de	SAND, little Clay, trace Silt, nse. Sulfur odor.
- 19						<u></u>	No Recovery	
— 20				0.5			Gray (Gley N5/0) wet, loose. Slight	SAND, little Clay, trace Silt, sulfur odor.
- 21 -				0.0			Gray (Gley N5/0) soft. No odor.	CLAY, little Silt, dry, cohesive,
- 22				0.0				

Site L Geolo Drilli	t: PPG Industri Site 135 Location: Jersey ogist: B. Ergeze ng Company: E er N. Moyer	City, NJ n, M. Merdinger	Drilling J Well Cor Elevation State Pla Coordina Drilling J	npletic n 1 ne y ates	0.34 X: 682	007 Y: 611416 Rotary	ENSR AECOM 135-MW2B Page: 5 of 6	
Depth (ft)	Well Construction Diagram	Well Constru Description Sample Infor	n and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description
- 23							Gray (Gley N5/0) soft. No odor. No Recovery	SANDY CLAY, wet, cohesive,
- 24				0.0			Gray (Gley N5/0) Silt, wet, loose. N	fine to coarse SAND, trace o odor.
- 25				0.0				
- 26		#00 Sand Seal		0.0				y (10R 4/1) fine to medium wet, loose. No odor.
- 27 -		#1 Sand Filter Pack		0.0	3			/1) coarse to fine SAND, trace fine angular Gravel, wet, very

Site L Geolo Drilli Drille	t: PPG Industri Site 135 cocation: Jersey ogist: B. Ergeze ng Company: E or N. Moyer	City, NJ n, M. Merdinger Eichelbergers	Drilling Well Cor Elevation State Pla Coordina Drilling	npletion 1 ine y ates Methoo	0.34 K: 682 d:	007 Y: 611416 Rotary	ENSRAECOM135-MW2BPage: 6 of 6		
Depth (ft)	Well Construction Diagram	Well Constru Description Sample Inform	and	PID (ppm)	Blows/6"	Lithology	Lithol	ogic Description	
- 28		2 in dia 10-Slot PVC \$	Screen	0.0	5			y (5YR 4/2) fine to very fine ce Silt, trace coarse to medium No odor.	
- 29				0.0	3		Dark Reddish Gra SAND, little to trac Sand, wet, very lo		
- 30				0.0	4		Weak Red (10R 4 wet, very loose. N No Recovery	/3) very fine SAND and SILT, No odor.	
- 31				0.0	6		Weak Red (10R 4 Sand, wet, loose.	/3) SILT, little to trace very fine No odor.	
— 32				0.0	5		coarse Sand, little loose. No odor.	/2) SILT, some medium to fine rounded Gravel, wet, /3) SILT, little very fine Sand, lor.	
					6		No Recovery	3 ft.	



Boring ID: 135-MW3A

Dado.	1	
Page:		

Project Na						• •••• •• •• •	· · · · · · · · · · · · · · · · · · ·	
Project Nu						Drilling Method: Mud Rotary	Coordinates (NJSPN	
				10:21:00 AN		Rig Type: Mud Rotary	Coordinates (NJSPN	
				<u>3 11:30:00 A</u>		Core Size: 2 inch	Boring Total Depth:	15 ft
Logged By	: Ericl	n Weiss	S			Project Manager: Scott Mikaelian	Depth to Water: 9.0) ft
Physical L	ocation	n: Paq	ific Avenue	9			Surface Elevation:	11.6 ft NAVD88
	covery ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	Surface Cover and Thic	kness:	Sample ID
		0.0		ASPHALT		ASPHALT	_	
_1		0.0	dry	FILL		fine to coarse SAND, with fine to mediu 3/3) dark brown, non plastic, loose, dry,	no odor, no staining.	
		0.0	dry	FILL		fine to coarse SAND, with fine to mediu (7.5YR 3/3) dark brown, non plastic, loc staining.		
-2	5	0.0	dry	FILL		fine to coarse SAND, with fine to mediu (7.5YR 3/3) dark brown, non plastic, loc staining, with brick and urban fill.	m gravel, little coal, ose, dry, no odor, no	
-3	-	0.0	dry	FILL		medium to coarse, with brick and wood 2.5/2) very dark brown, dry, no odor, no		
-4	-	0.0	moist	FILL		 <u>coal slag and ash.</u> medium SAND, trace silt with brick, (7.9 gray, non plastic, loose, moist, no odor, 	no staining, with	
-5				NR		some coal ash, slag and urban fill mate NO RECOVERY	riai.	
-6	0							
-7	1	0.0	moist	FILL		fine to medium SAND, with silt, (7.5YR brown, non plastic soft, moist, no odor,		
-8	1			FILL		NO RECOVERY		
-9 	1.6	0.0	wet	FILL		fine to medium SAND, trace fine gravel brown, non plastic, soft, wet,no odor, no	, (7.5YR 3/3) dark o staining.	
				NR	\sim	NO RECOVERY		-
-11	1	0.0	moist	FILL		fine to medium SAND, trace silt, (7.5YF non plastic, soft, moist, no odor, no stai		
-12	1			NR		NO RECOVERY		-
-13		0.0	wet	FILL		fine to medium SAND, some silt, (7.5Yi non plastic, soft, wet, no odor, no staini		
-14	1.2	0.0	moist	FILL	\bigotimes	medium SAND, (7.5YR 4/2) brown, nor	n plastic, soft, moist,	
-15				NR		NO RECOVERY	/	
lotes: bgs - below			COPR - chro GGM - gree		essing re	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep		ufactured gas plant omate chemical production wa:



Boring ID: 135-MW3B

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Mud Rotary	Coordinates (NJSPN	AD83) x: 611114.8
				10:00:00 A		Rig Type: Mud Rotary	Coordinates (NJSPNA	
				11:00:00 A		Core Size: 2 inch	Boring Total Depth:	33 ft
ogged	d By: Eric	h Weis	s			Project Manager: Scott Mikaelian	Depth to Water: 5.0	ft
hysic	al Locatio	n: Pad	cific Avenue				Surface Elevation: 1	1.5 ft NAVD88
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	mess:	Sample ID
				NR		Boring advanced to 3 ft bgs.		
_	-							
-1	-							
_	0							
-2	1							
_	-							
-3		0.0						
_	1	0.0	dry	FILL		medium to coarse SAND, some fine to r subangular, trace coal ash, paper, (7.5)		
4						gray, non plastic loose, dry, no odor, no		
-4	4	0.0	moist	FILL		fine to medium SAND, trace silt some m	nedium to coarse	
_	1		to			gravel, subangular, (10YR 6/2) light bro		
-5		0.0	wet	EUL		plastic, loose, moist to wet, slight HC od fill material slag, metal, glass, coal ash,		
_	4	0.0	wet	FILL FILL		, \ceramic.	/,	
-6	1		wet			fine silty CLAY, wood fragments, (7.5YF	R 7/1) light gray, non /	
-6		0.0	wet	FILL	_	\plastic, loose, wet, no odor, no staining. medium to coarse SAND, with gravel, so		
_	1			NR		cinders, coal ash, brick, (7.5YR 3/2) da		
-7		0.0	wet	FILL		hplastic, loose, wet, no odor, no staining.	i/_	
_	-	0.0	wei				, non plastic soft,	
-8	0.5			NR		NO RECOVERY	//	
0						fine silty SAND, trace fine to medium gr	avel. trace coal.	
_	1					(7.5YR 4/2) brown, non plastic, soft, we		
-9				NR			//-	
_	-			INF			/	
-10	0					NO RECOVERY		
10								
_								
-11		0.0	wet	FILL		fine SAND, some fine to medium gravel	angular trace silt	
_	-					(5YR 4/3) reddish brown, non plastic, de		
-12	1	0.0	wet	FILL				
				NR		fine silty SAND, little fine gravel, subrou reddish brown, non plastic, soft, wet, no		
						NO RECOVERY		
-13		0.0	moist	FILL		fine to medium silty SAND, little fine to r	medium gravel.	
_	1					subangular, little silt, (2.5YR 4/4) reddis		
-14	0.9			NR		soft, moist, no odor, no staining. NO RECOVERY		
_	4							
15								
-15				NR		NO RECOVERY		
_	1 .							
-16	0							
_	4							
-17								
17		6.9	moist	OL		UNDorg SILT, with organics, (7.5YR 4/		
_	1				<u> </u>	 plasticity, soft, moist, moderate organic Soils consistent with UNDorg. 	odor, no staining.	
-18	1.6							
_	4				+			
-19				NR		NO RECOVERY		
10		7.4	moist	OL		UNDorg SILT, with organics, (7.5YR 4/		
_					[plasticity, soft, moist, moderate organic Soils consistent with UNDorg. 	odor, no staining.	
otes:	2	1						
gs - be	low surface eadow mat				cessing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manuf	actured gas plant mate chemical production wa
			GGM - greer	a drow mud				mare chemical production w



Boring ID: 135-MW3B

	t Name: F					Drilling Company: SGS North America		
	t Number:					Drilling Method: Mud Rotary	Coordinates (NJSPN	
				10:00:00 AN		Rig Type: Mud Rotary	Coordinates (NJSPN	
ate F	inished Dr	illing:	12/5/2013	3 11:00:00 Al	N	Core Size: 2 inch	Boring Total Depth:	33 ft
	d By: Eric					Project Manager: Scott Mikaelian	Depth to Water: 5.0	
			cific Avenue	2			Surface Elevation:	
-								
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thick	ness:	Sample ID
-21 -22 -	1.8	6.4	moist	OL		UNDorg SILT, with organics, (7.5YR 4/1 plastic, soft, moist, moderate organic od consistent with UNDorg.		
-23				NR		NO RECOVERY		1
	2	8.5	moist	OL		UNDorg SILT, with organics, (7.5YR 4/1 plastic, soft, moist, moderate chemical o Soils consistent with UNDorg.		
_		0.4	moist	SM		UNDno SAND, trace silt, (7.5YR 4/1) da plastic, loose to soft, moist, slight organic Soils consistent with UNDno.		
-25 -26	1.3	0.7	moist	SM		UNDno SAND, trace silt, (7.5YR 4/1) da loose to soft, moist, slight organic odor, i consistent with UNDno.	rk gray, non plastic,	
				NR				
-27	-			NR		NO RECOVERY		
-28 -	0							
-29 -30	1.1	0.0	moist	SM		UNDno SAND, trace fine gravel, (5YR 3 brown, non plastic, loose, moist, no odor fine sands. Soils consistent with UNDno	, no staining, red	
- 30	-			NR		NO RECOVERY		
-31 -32 -33	2	0.0	moist	SM		UNDno SAND, some fine gravel, (5YR 3 brown, non plastic, loose to very soft, mo staining, red fine sand. Soils consistent	oisť, no odor, no	
otes: gs - be M - me	low surface eadow mat		COPR - chr GGM - gree		cessing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu	l Ifactured gas plant omate chemical production wa



Boring ID: 135-P3C-X47AR

Project	t Number:	60.240	1730			Drilling Method:	Coordinates (NIED)	IAD83) x: 610901.211
				3:45:00 AM		Rig Type:		AD83) x: 610901.211 AD83) y: 682092.11
				9:25:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	d By: SP	mny.	121212014	0.20.00 AIVI		Project Manager: Scott Mikaelian	Depth to Water: NA	
	al Locatio	n. P30	C - X47AR				Surface Elevation:	
-		1. 1.0						
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thic	kness:	Sample ID
 	5	0.0	dry	FILL		ASH, trace coal, trace gravel, (10YR 5/ loose, dry, no odor, no staining.	2) grayish brown,	
		0.0	dry	FILL	XXXX	ASH, (10YR 2/1) black, loose, dry, no o	odor, no staining.	
-3 -4	-	0.0	dry	FILL		ASH, trace coal, trace gravel, trace she 5/2) grayish brown, loose, dry, no odor,	Il fragments, (10YR no staining.	
_		0.0	dry	FILL		fine to medium SAND, trace gravel, (10	VP 1/3 brown	
-5		0.0	,			medium dense, dry, no odor, no stainin	q.	
-6			slightly moist	FILL		ASH, trace gravel, trace debris, (10YR medium dense, slightly moist, no odor,	4/1) dark gray, no staining.	
-8	5	0.0	saturated	SM		fine to medium silty SAND, trace coars brown, low plasticity, soft, saturated, no Soils consistent with UNDno.	e gravel, (10YR 4/3) o odor, no staining.	135-P3C-X47AR-6.5-7.0
10 <u> </u>		0.0	wet	SM		fine to medium silty SAND, trace grave low plasticity, soft to medium dense, we		135-P3C-X47AR-10.0-10.5
11— 12— 13— 14— 45	5					staining. Soils consistent with UNDno.		135-P3C-X47AR-12.0-12.5
15 16 -		0.0	slightly moist	SM		fine to medium silty SAND, trace grave yellowish brown, low plasticity, soft to n moist, no odor, no staining. Soils consis	nedium dense, slightly	105 D20 X474D 40 0 47 4
17—	-	0.0	allertett	~				135-P3C-X47AR-16.6-17.1
	5	0.0	slightly moist	OL		SILT, 90% organic silt, 10% organic fib dark gray, low plasticity, medium dense moderate organic odor, no staining. So UNDorg.	, slightly moist,	135-P3C-X47AR-17.1-17.6
otes:	low surface	grade	COPR - chro	omite ore proc	essing n	esidue UNDno - non-organic undisturbed native	e deposits MGP - manu posits CCPW - chr	factured gas plant omate chemical production wa



Boring ID: 135-RI-EE28A

	Name: F					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NUC	NAD83) x: 611333.31
	tarted Dril					Rig Type: Geoprobe		NAD83) y: 682491.72
	inished Dr					Core Size: 2 inch	Boring Total Depth:	
	By: Bre					Project Manager: Scott Mikaelian	Depth to Water: N	
			ual-135-LSF				Surface Elevation:	
-		n. Aci	uai-155-L51		1		Surface Elevation.	9.0 IT NAV D88
Depth Range 't bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
		3.5	dry	FILL		fine to coarse SAND, trace silt and trace dark gray, dry to wet, slight petroleum oo staining	gravel, (5YR 4/1) dor, hydrocarbon	135-RI-EE28A-2.1-2.6
-3						8		
-4		4.4	moist	FILL		fine to coarse SAND, trace silt trace grav 3/1) very dark gray, medium dense, mois staining	vel, trace ash, (5YR st no odor no	
-5		5.5	moist	FILL		fine to medium silty SAND, trace gravel, medium dense, moist slight petroleum o	(7.5YR 4/2) brown, dor no staining	- 135-RI-EE28A-4.1-4.6
-5		0.0	moist	FILL		medium to coarse SAND, some fine gra trace coarse gravel, (5YR 4/1) dark gray moist no odor no staining	vel little fine sand, , medium dense,	135-RI-EE28A-5.6-6.1
 10		0.0	moist	FILL		fine to medium silty SAND, trace fine gra very dark gray, medium dense, moist no	avel, (7.5YR 3/1) odor no staining	- 135-RI-EE28A-10.4-10.9
11								
12 13 14 								135-RI-EE28A-12.1-12.6
o tes: s - be M - me	low surface adow mat	grade	COPR - chro GGM - greer	omite ore proc n grey mud	essing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - man osits CCPW - ch	ufactured gas plant romate chemical production w



Boring ID: 135-RI-FF23A24A

	Name: F					Drilling Company: SGS North America		A DOO)
	Number:					Drilling Method: Direct Push		IAD83) x: 611441.25
	arted Dril					Rig Type: Geoprobe	Coordinates (NJSPN	
			7/31/2018	8		Core Size: 2 inch	Boring Total Depth:	
.ogged	Bre: Bre	ndan M	urphy			Project Manager: Scott Mikaelian	Depth to Water: NA	
hysica	al Locatio	n: Act	ual-135-LS	RP			Surface Elevation:	8.4 ft NAVD88
Depth			T					
Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick	ness:	Sample ID
rt bgs) - 1 - 2 - 2 - 3 - 4 - 4 		0.0	moist	FILL		medium to coarse SAND, trace fine san silt, (7.5YR 2.5/2) very dark brown, med slight petroleum odor no staining	ium dense, moist	135-RI-FF23A24A-1.2-1.7
Notes: ogs - bel VIM - me	ow surface adow mat		COPR - chro GGM - gree	omite ore pro n grey mud	cessing r	esidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - manu osits CCPW - chre	factured gas plant omate chemical production was



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: 135-SI-DD31A

	t Name: F t Number:					Drilling Company: SGS North America Drilling Method: Direct Push	Coordinates (NJSPN	AD83) x: 611256.8
				3:00:00 AM		Rig Type: Geoprobe	Coordinates (NJSPN	
				6 8:45:00 AM		Core Size: 3.0 in	Boring Total Depth:	
	By: Micl					Project Manager: Scott Mikaelian	Depth to Water: 6.0	
				Property - Bl		get even and an	Surface Elevation:	
epth bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Soil Description:		Sample ID
				ASPHALT		ASPHALT, with Subbase Gravel(Trap	Rock).	
-1 -2	4	0.0	slightly moist	FILL		fine to medium SAND,some medium to cinders,coal fragments,trace ash,(yello 2.1-2.4),(7.5YR 3/4) dark brown,loose, odor,no staining.	w fill sand lens @	135-SI-DD31A-0.5-1.0
-3		79.5	moist	FILL		CINDERS,some ash,fine to medium sa impacts @ 2.8-3.1), (7.5YR 2.5/1) blac loose,moist,moderate petroleum odor,h	xk,	135-SI-DD31A-2.6-3.1
4				NR	****	NO RECOVERY.		
-5 -6		0.0		FILL		CINDERS, some fine to medium sand, fragments, coal fragments(petroleum in (7.5YR 2.5/1) black, loose, moderate pe	npacts @ 5.9-6.1),	
U		0.0	wet	SM		odor,hydrocarbon staining. SILT,some fine to medium sand,trace gravel,(7.5YR 3/4) dark brown,soft,wet		135-SI-DD31A-6.2-6.7
7	2			NR		DTW @ 6.2'. NO RECOVERY.		
9 10 		0.0	wet	SM		SILT, some fine to medium sand, little fi gravel, trace rock fragments, (2.5YR 4/3	3) reddish	135-SI-DD31A-10.0-10.5
1				NR	고학신간	brown,soft,wet to saturated,no odor,no NO RECOVERY.	staining.	
2	1							
4								
5 — 6—		0.0	moist	SM		SILT,some fine sand,little fine to mediu yellowish brown,soft,moist,no odor,no		
	5	2.1	slightly moist	PT		odor,no staining. Soils consistent with	derate organic	
-		1.4	maint	OL	<u>, ,, , ,</u>			
19		1.4	moist			 UNDorg SILT, (80% organic silt, 20% ((7.5YR 3/2) dark brown,moist,moderat odor,hydrocarbon staining. Soils consist 	e organic	
tes: s - bel	low surface adow mat	grade	COPR - chro GGM - gree	omite ore proc	essing re	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native de	e deposits MGP - manu	factured gas plant omate chemical production wa

ange (Kecovery PID Moisture GA USCS Graphic Surface Cover and Thickness:	30 KN	ightsbridge R 732.564.32	00 office t	elephone	0004					Page
tete Started Drilling: 631/2015 62500 AM Ptg Type: Georgete 78220 T Coordinates (NLSPANDB)); 682211.8 specific Production: Former Narale Property: B0 51 (Greek) Project Manager: South Mixeleian Depth to Water: 7.0 Project Manager: 7.0							Drilli	ng Company: SGS North America		
Deptine Dorlling: Barring Total Deptin: 20 It Deptine Votation: Former Status Property: Bit Project Manager: Sout Mikesian Deptine Votation: Deptine Votation: Dotation: Deptine Votation: Dotation: Deptine Votation: Dotation: Deptine Votation: Dotation: Dotatio:										
Opgod By: MI Project Manager: Depth to Water: 7,0 wild Location: Surface Elevation:: 10.6 ft NAVD88 wild Wild View Content Class USCS wild View Surface Cover and Thickness: Sample 0.0 dry 2 ASPHALT. ASPHALT. 0.0 molet 3 FILL No Recover, or other analysing and fine to medium gravel trace for molet and supput fragments (10YR 32) way dark grayter 195/241-14.8 1 0.0 molet 3 FILL Inte to medium SAND, and cincers can could little medium 195/241-16.8 2 - - - - - - - 3 - - - - - - - 4 - - NR NO RECOVERY. - - 5 - 0.0 molet 3 FILL SLT and fine sand, little gravel.large nublask staining. DW										
Number Surface Elevation: 10.6 ft NAVD28 eprint 1059 Recovery (tr) PID (prm) Molestimation: Content Gass USCS Graphic Log Surface Elevation: 10.6 ft NAVD28 eprint 1059 0.0 org 2. ASPHalt Surface Elevation: 10.6 ft NAVD28 Sample 10 Surface Elevation: 10.6 ft NAVD28 2 0.0 org 2. ASPHALT Incluster Mathematic Market 10 105 241-11-8 2 0.0 moist 3 FILL ASPHALT Incluster Market provider (provider gravet) 100 corres gravet (7 5/ft 2.5/1) black, loose, moistro 105 241-15-20 3 - - - - - - 105 241-15-20 4 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			Iling:	8/31/2015	10:00	:00 AM				D ft
Heating Recovery (ppm) PID (solution (ppm) Molisture (ppm) GA (content Content Content (Case USCS USC Graphic Log Surface Cover and Thickness: Sample ID 1 0.0 dv 2, eSPHALT ASPHALT Surface Cover and Thickness: Sample ID 1 0.0 dv 2, eSPHALT ASPHALT The to medium SAND, and fine to medium gravel, trace brick and asphelt fragments (10YR 20) very dark graysh provide data sphelt fragments (10YR 20) very dark graysh provide data sphel			. Forr	nor Norulo	Dropo	the Did E		Scott Manager: Scott Mikaelian	Surface Elevation	10.6 ft NAVD88
Bige Content Case USCS Clipping Surface Cover and Thickness: Satipute ID 100 00 dry 2 ASPHALT ASPHALT Satipute 155 241 0.106 1 0.0 dry 2 ASPHALT ASPHALT The fire to medium SAND, and fine to medium gravel, trace brick and asphalt fragments (10YR 32) very dark graveh 155 241 0.106 1 0.0 moist 3 FILL File 155 241 0.106 2 4 0.0 moist 3 FILL File 155 241 0.106 3 - - 0.0 moist 3 FILL File 155 241 0.106 4 - - - - 155 241 0.106 155 241 0.106 5 - 0.0 moist 3 FILL File 155 241 0.106 6 - - - - 155 241 0.506 155 241 0.506 7 5 0.0 moist 3 FILL Sile T and fine sand, I	Tiysica		I. TUI			ity - Diu 5				
Image: Instant SAND, and fine to medium Gavel, tace Image: Instant SAND, and fine to medium Gavel, tace Image: Instant SAND, and fine to medium Gavel, tace 1 0.0 3 FILL Image: Instant SAND, and fine to medium Gavel, tace Image: Instant SAND, and cinders, some coal, little medium books, noise,	Depth Range ft bgs)					USCS		Surface Cover and Thi	ckness:	
Image: Information SAND,			0.0	drv			*****			135-Z41-0.1-0.6
Image: Second	_			<u></u> ,	-			fine to medium SAND, and fine to me	dium gravel,trace	
2 4 0.0 moist 3 FILL File to medium SAND, and cinders, some coal. little medium to coarse gravel. (7, 5YR 2, 5/1) black, loose, moist, no dor, no dots staining. 135.241-15-2.0 3 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	- 1		0.0		3	FILL			2) very dark grayish	
2 4 3 FLL Initial to medium SAND, and ash, little cinders, shift Sa, intermedulin to ode, incon oxide staining. 3 4 NR NO RECOVERY. 4 NR NO RECOVERY. 5 0.0 moist 3 6 - - - 7 5 4.8 moist 3 8 0.0 moist 3 FILL SILT, and fine sand, little cinders (little medium to coarse gravel, (7.5YR 2.5'r) black, loose, moist, no odor, no staining. 8 0.0 moist 3 FILL SILT, and fine sand, little gravel, large tubber like material (@ 7.5.8.0, soft, moist to wet, no odor, slight black staining. DTW (@ 7.0, SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining. 135-241-8.5-10.0 10 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining. 135-241-8.5-10.0 11 135-241-8.5-10.0 135-241-8.5-10.0 135-241-8.5-10.0 12 5 18 slightly 7 PT 12 135-241-1.5-10.0 13 18 slightly 7 PT 1										
4 NR NO RECOVERY. 5 0.0 moist 3 FILL fine to medium SAND, and ash,little cinders,fill material, (75YR 2.5/1) black,losse,moist,no odor, no staining. 135-241-85-80 7 5 4.8 moist 3 FILL SILT, and fine sand, little gravel,large rubber like material (@ 7.5-8.0,soft,moist to wet, no odor, slight black staining, DTW (0.7.5/R 4.2) rbown, soft, moist no sdor, no staining. 135-241-85-80 9 0.0 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material (@ 7.5-8.0,soft,moist to wet, no odor, slight black staining, DTW (0.7.5/R 4/2) brown, soft, moist no odor, no staining. 135-241-85-80 9 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel (7.5/R 4/2) brown, soft, moist, no odor, no staining. 135-241-85-100 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel (7.5/R 4/2) reddish brown, soft, moist, no odor, no staining. 135-241-13-14.2 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel (7.5/R 4/2) reddish brown, soft, moist, no odor, no staining. 135-241-13-14.2 11 1.8 slightly 7 PT PEAT (degraded vegetated mat		4	0.0	moist	3	FILL		to coarse gravel, (7.5YR 2.5/1) black, lo		135-241-1.5-2.0
6 0.0 moist 3 FILL fine to medium SAND, and ash,little cinders, fill material, (7.5YR 2.5/1) black,loose,moist,no odor, no staining. 135-241-65-6.0 7 5 4.8 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft,moist to wet, no odor, slight black staining, DTW @ 7.5-8.0, soft,moist to wet, no odor, no staining. 135-241-65-6.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-65-6.0 10 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-65-10.0 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-12-12-13.0 12 5 13 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining. 135-241-12-12-13.0 14 0.9 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 3/2) dark brown, soft os stiff, moist, sighthy moist, sighthy mo	_									135-Z41-3.5-4.0
6 0.0 moist 3 FILL fine to medium SAND, and ash,little cinders, fill material, (7.5YR 2.5/1) black,loose,moist,no odor, no staining. 135-241-65-6.0 7 5 4.8 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft,moist to wet, no odor, slight black staining, DTW @ 7.5-8.0, soft,moist to wet, no odor, no staining. 135-241-65-6.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-65-6.0 10 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-65-10.0 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 4/2) brown, soft,moist, no odor, no staining. 135-241-12-12-13.0 12 5 13 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 3/2) dark brown, soft, moist, no odor, no staining. 135-241-12-12-13.0 14 0.9 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 3/2) dark brown, soft os stiff, moist, sighthy moist, sighthy mo	- 4				-	NR		NO RECOVERY		
6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	_									
6 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	- 5									
6 staining. staining. staining. staining. 7 5 4.8 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft, moist to wet, no odor, slight black staining, DTW @ 7.0. 105-241-75-8.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining. 105-241-75-8.0 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 4/2) brown, soft, moist, no odor, no staining. 105-241-75-8.0 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (SYR 4/3) reddish brown, soft, moist, no odor, no staining. 105-241-12-10.0 11 12 5 18 slightly 7 PT 10/2 PEAT (degraded vegetated material), (90% organic fibers, 10% organic fibers, 10% organic silt, 00% organic silt, 00% organic silt, 00% organic silt, 00% organic fibers, 135-241-135-14.0 135-241-135-14.0 14 1.1 moist 9 OL OL OL OL 135-241-135-14.0 16 1.1 moist 9 OL OL OL <	J.		0.0	moist	3	FILL				
66 5 4.8 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft, moist to wet, no odor, slight black staining, DTW 105:241-7.5-8.0 9 0.0 moist 3 FILL SILT, and fine sand, little gravel, large rubber like material @ 7.5-8.0, soft, moist to wet, no odor, slight black staining, DTW 105:241-7.5-8.0 9 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 - - - - - - 12 - 5 - - - 13 1.8 slightly 7 PT - - - 13 1.8 slightly 7 PT - - - - 14 - - - - - - - - - - - - - - - -									ist,no odor,no	135-Z41-5.5-6.0
5 model 0 model 7.5-8.0,soft,moist to wet,no odor,slight black staining, DTW 135-241-7.5-8.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown,soft,moist,no odor,no staining. 9 0 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 135-241-12.5-13.0 135-241-12.5-13.0 135-241-12.5-13.0 12 5 1.1 moist 9 OL 14 0.9 moist 9 OL 0.00 moist silf, moderate organic odor, so taining, Soils consistent with MOrg, UN, SYR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic 115-241-13.5-14.0 15 1.1 moist 9 OL UNDOrg Sill, (60% organic sill, 20% organi	6							etag.		
5 model 0 model 7.5-8.0,soft,moist to wet,no odor,slight black staining, DTW 135-241-7.5-8.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown,soft,moist,no odor,no staining. 9 0 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 135-241-12.5-13.0 135-241-12.5-13.0 135-241-12.5-13.0 12 5 1.1 moist 9 OL 14 0.9 moist 9 OL 0.00 moist silf, moderate organic odor, so taining, Soils consistent with MOrg, UN, SYR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic 115-241-13.5-14.0 15 1.1 moist 9 OL UNDOrg Sill, (60% organic sill, 20% organi	_									
5 model 0 model 7.5-8.0,soft,moist to wet,no odor,slight black staining, DTW 135-241-7.5-8.0 8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel, (7.5YR 4/2) brown,soft,moist,no odor,no staining. 9 0 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, (7.5YR 11 135-241-12.5-13.0 135-241-12.5-13.0 135-241-12.5-13.0 12 5 1.1 moist 9 OL 14 0.9 moist 9 OL 0.00 moist silf, moderate organic odor, so taining, Soils consistent with MOrg, UN, SYR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic 115-241-13.5-14.0 15 1.1 moist 9 OL UNDOrg Sill, (60% organic sill, 20% organi	- 7									
135-201, Solt, Indiat to Wel, Ind Sub Wel, Ind Sub Yel, Ind Yel, Ind Yel, Yel, Yel, Yel, Yel, Yel, Yel, Yel,	'	5	4.8	moist	3	FILL		SILT, and fine sand, little gravel, large	rubber like material @	
8 0.0 moist 3 FILL SILT, and fine sand, little medium to coarse gravel.(7.5YR 9 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel.(7.5YR 10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel.(7.5YR 11 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel.(7.5YR 4/2) reddish brown.soft.moist.no odor, no staining. 12 5 1.8 slightly 7 PT V PEAT (degraded vegetated material). (90% organic fibers, 10% organic fibers, 10% organic codr.no staining. Soils consistent with MM. 135-241-13.5-14.0 14 0.9 moist 9 OL OL 10% organic silt, 07.5YR 3/2) dark brown, sightly moist.slight organic codr.no staining. Soils consistent with MM. 135-241-13.5-14.0 15 1.1 moist 9 OL OL OL Interpret of the singht organic codr.no staining. Soils consistent with UNDorg. 16 1.1 moist 9 OL Interpret of the moist slight organic codr.no staining. Soils consistent with UNDorg. Interpret of the singht organic codr.no staining. Soils consistent with UNDorg. 17	_	Ŭ							t black staining, DTVV	135-Z41-7.5-8.0
9	8		0.0	moist	3	FILL			oarse gravel (7 5VR	
10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (5YR 4/3) reddish brown, soft, moist, no odor, no staining. 135-241-8.5-10.0 11 12 5 135-241-12.5-13.0 135-241-12.5-13.0 13 1.8 slightly 7 PT Yes Yes 14 0.9 moist 9 OL PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, sliff, moderate organic odor, no staining. Soils consistent with MM. 135-241-13.5-14.0 15 1.1 moist 9 OL OL Old row organic silt, 20% organic fibers), 10% organic dor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 16 1.1 moist 9 OL UNDorg Silt, (80% organic silt, 20% organic fibers), 10% organic codor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 17 5 1.1 moist 9 OL UNDorg Silt, (80% organic silt, 20% organic fibers), 10% organic codor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 18 18 18 19 19 19 10% o	_		0.0	moist				4/2) brown,soft,moist,no odor,no stain	ling.	
10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (5YR 4/3) reddish brown, soft, moist, no odor, no staining. 135-241-8.5-10.0 11 12 5 135-241-12.5-13.0 135-241-12.5-13.0 13 1.8 slightly 7 PT Yes Yes 14 0.9 moist 9 OL PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, sliff, moderate organic odor, no staining. Soils consistent with MM. 135-241-13.5-14.0 15 1.1 moist 9 OL OL Old row organic silt, 20% organic fibers), 10% organic dor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 16 1.1 moist 9 OL UNDorg Silt, (80% organic silt, 20% organic fibers), 10% organic codor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 17 5 1.1 moist 9 OL UNDorg Silt, (80% organic silt, 20% organic fibers), 10% organic codor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 18 18 18 19 19 19 10% o	0							, ,	5	
10 0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling, (5YR 4/3) reddish brown, soft, moist, no odor, no staining. 11 12 5 135-241-11.5-12.0 13 1.8 slightly 7 PT 14 0.9 moist 9 OL 14 0.9 moist 9 OL 15 1.1 moist 9 OL 16 1.1 moist 9 OL 16 1.1 moist 9 OL 17 5 5 5 13 18 10 10 10% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic otor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 17 5 1 5 1 5 1 18 18 19 0L 0 00% organic silt, 20%	9									
0.0 moist 3 FILL SILT, and fine sand, interbedded with medium to coarse gravel, orange mottling,(5/R 4/3) reddish brown,soft,moist,no odor,no staining. 11	_									135-Z41-9.5-10.0
11	10		0.0	moist	3	FILL		SILT and fine sand interbedded with	medium to coarse	
11	_		0.0	moist						
12 5 135-241-11.5-12.0 13 1.8 slightly 7 PT 14 14 0.9 moist 9 OL 135-241-13.5-14.0 14 0.9 moist 9 OL 135-241-13.5-14.0 15 1.1 moist 9 OL 0.9 135-241-13.5-14.0 16 0.9 0L 0.9 0L 0.9 0L 0.9 16 0.9 0L 0L 0.9 0L 0L 0.9 16 0.9 0L 0L 0L 0L 0L 0L 16 0.9 0L 0L 0L 0L 0L 0L 0L 17 5 0L <	-11									
12 5 13 18 slightly 7 PT M PEAT (degraded vegetated material), (90% organic fibers, 135-241-13.0-13.5 13 1.8 slightly 7 PT M PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, stiff, moderate organic odor, no staining. Soils consistent with MM. 135-241-13.5-14.0 14 15 1.1 moist 9 OL Oly organic silt), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 15 1.1 moist 9 OL Oly organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic fibers), organic color, no staining. Soils consistent with UNDorg. 18 18 19 19 19 19 19 18 19 19 19 19 19 19 19 19 </td <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	11									
5 1.8 slightly 7 PT Markowski Million 135-241-12.5-13.0 13 1.8 slightly 7 PT Markowski Million 135-241-13.0-13.5 14 0.9 moist 9 OL PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, sliff, moderate organic odor, no staining. Soils consistent with MMM. 135-241-13.5-14.0 14 15 1.1 moist 9 OL										135-Z41-11.5-12.0
13- 1.8 slightly 7 PT PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly moist, stiff, moderate organic odor, no staining. Soils consistent with MM. 135-241-13.5-14.0 14- 0.9 moist 9 OL 100 100% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. 135-241-13.5-14.0 15- 1.1 moist 9 OL 00% organic silt, 20% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. UNDorg SILT, (80% organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. 16- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <	12									
13 1.8 slightly 7 PT V/V PEAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly 135-241-13.0-13.5 14 0.9 moist 9 OL PIAT (degraded vegetated material), (90% organic fibers, 10% organic silt), (7.5YR 3/2) dark brown, slightly 135-241-13.0-13.5 14 0.9 moist 9 OL 0.9 moist 9 15 1.1 moist 9 OL 0.9 00% organic silt, 20% organic silt, 20% organic 135-241-13.5-14.0 16 0.9 0.1 0.9 0.1 0.9 0.1 0.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	_	5								125 741 49 5 49 0
1.8 slightly 7 PT Oracle of the second state in the sec	12									
14- 0.9 moist 9 OL moist, stiff, moderate organic odor, no staining. Soils 14- 1.1 moist 9 OL moist, stiff, moderate organic odor, no staining. Soils 15- 1.1 moist 9 OL moist, stiff, moderate organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic 16- 1.1 moist 9 OL moist, stiff, moderate organic silt, 20% organic fibers), (7.5YR 3/2) dark brown, soft to stiff, moist slight organic 16- 1.1 moist 9 OL moist, stiff, moderate organic silt, 20% organic 17- 5 1.1 moist 9 OL moist, stiff, moist slight organic odor, no staining. Soils consistent with UNDorg. 18- 18- 19- 19- 19- 10- 18- 19- 19- 19- 19- 19- 18- 19- 19- 19- 19- 19- 18- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19-	15		1.8		7	PT	<u> </u>	PEAT (degraded vegetated material),	(90% organic fibers,	135-Z41-13.0-13.5
14 Indiation of the organic dod, no staining. Solid cod,			0.9		9	OL	<u></u>			135-Z41-13.5-14.0
Image: Solid constraint of the solid consolid consolid constraint of the solid constraint of th	14			moiot				consistent with MM.	- /	
15 1.1 moist 9 OL Odor, no staining. Soils consistent with UNDorg. 16 16 16 16 16 16 16 17 17 17 10 10 10 10 18 18 10 10 10 10 10 18 18 10 10 10 10 10	_						[]	UNDorg SILT, (80% organic silt, 20%	organic fibers),	
1.1 moist 9 OL	15				L					
fibers),(7.5YR 3/2) dark brown,soft to stiff, moist slight organic odor,no staining. Soils consistent with UNDorg.			1.1	moist	9	OL		UNDorg SILT, (80% organic silt, 20%	organic	
							[]	fibers),(7.5YR 3/2) dark brown,soft to	stiff, moist slight	
	16							organic odor, no staining. Soils consist	ent with UNDorg.	
-18	-17						[]			
-18		5					<u>––</u> –			
	18						[]			
-19							L]			
	-19									
							<u> </u>			
							<u> </u>			



Boring ID: ASM-T49A

	Number:						ng Method: Direct Push	Coordinates (NJSPNAD	
			/15/2016 8			Rig T		Coordinates (NJSPNAD	
		Iling:	8/15/2016	9:40:0	DO AM		Size: 3.0 in	Boring Total Depth: 15	o tt
	By: KW	N 104	al - Smith	יחס		Proje	ect Manager: Scott Mikaelian	Depth to Water: 6.5 Surface Elevation: 9.9	
nysica		I. ACIL		וט־				Journace Elevation: 9.9	
Depth Range t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class		Graphic Log	Surface Cover and	Thickness:	Sample ID
_		0.0		2	ASPHALT		Asphalt and gravel sub-base		
-1			dry	3	FILL		silty SAND, trace ash and fill debri medium dense, dry, no odor, no st		ASM-T49A-1.0-1.5 ASM-T49A-2.0-2.5
-3	4.5		moist	3	FILL		fine to medium SAND, trace fill de	bris, (5YR 2.5/1) black,	
- 4							loose, moist, no odor, no staining.		ASM-T49A-4.0-4.5
				NR	NR		NO RECOVERY		
- 5		0.0	moist to	3	FILL		CINDERS, some ash, (5YR 6/1) g saturated, no odor, no staining, wa		
- 6 - 7 - 7	5		saturated						ASM-T49A-6.0-6.5
- 8									ASM-T49A-8.0-8.5
9			saturated	3	FILL		SILT, little fine sand, trace fine gra 3/2) dark brown, medium dense, s staining.	ivel and fill debris, (7.5YR aturated, no odor, no	
10		0.0	saturated	3	FILL		SILT, some fine to medium sand, I		ASM-T49A-10.0-10.5
11							(5YR 3/3) dark reddish brown, den no staining.		ASM-T49A-10.5-11.0 ASM-T49A-11.0-11.5
-12			saturated	7	PT		PEAT (degraded vegetated materia 40% Organic Silt, (7.5YR 3/2) darl saturated, slight organic odor, no s	k brown, dense,	ASM-149A-11.0-11.5
-13	3		saturated	9	OL		with MM. Organic SILT, 60% Organic Silt, 4 4/1) dark gray, dense, saturated, s	0% Organic fibers, (5YR	
-14				NR	NR		staining. Soils consistent with UNE NO RECOVERY	Dorg.	
15									
tes: s - belo	ow surface g	grade (COPR - chro	mite o	re processin	g residue	UNDno - non-organic undisturbed nativ	e deposits MGP - manufac	tured gas plant
∕l - mea	adow mat		GGM - greer				UNDorg - organic undisturbed native de	Prosits CCPW - chrom	ate chemical production w

	Α	Ξ(20)/	M
--	---	----	----	----	---

Boring ID: ASM-U49A

							Drilling Company: SGS North America Drilling Method: Direct Push Coordinates (NJSF)		83) x: 610781.914	
ate Started Drilling: 8/15/2016 10:00:00 AM						Rig	Гуре: Т		ordinates (NJSPNAD83) y: 682064.246	
			8/15/2016			Core	Size: 3.0 in	Boring Total Depth: 15		
	By: KW					Proj	ect Manager: Scott Mikaelian	Depth to Water: 6.5		
nysica	al Location	n: Actu	<u>ial - Smith</u>	PDI				Surface Elevation: 10.	6 ft NAVD88	
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID	
_ 1		0.0		1 (ONCRET		Concrete sidewalk and gravel sub-base			
_	4			NR	NR	VOID SPACE				
2 —			dry	3	FILL		fine silty SAND, trace fill debris, (7.5YR 4/2) brown, loose,	ASM-U49A-2.0-2.5		
3 — 4 —			to moist moist	3	FILL		dry to moist, no odor, no staining. fine to medium SAND, trace silt and fill debris, (7.5YR 2.5/1) black, loose, moist, no odor, no staining.		ASM-U49A-4.0-4.5	
_										
5	5	0.0	moist to	NR 3	NR FILL					
6 — 7 — 7			saturated			ASM-U49A-6.0-6.5				
8 — - 9 —									ASM-U49A-8.0-8.5	
0			saturated	3	FILL	$\boxtimes \boxtimes$	SILT, little fine sand, trace fill debris, (5YR 3/2) dark reddish			
10		0.0	saturated	3	FILL		brown, dense, saturated, no odor, no staining. SILT, little fine sand, trace fine gravel and fill debris, (5YR	o staining. el and fill debris (5YR	ASM-U49A-10.0-10.5	
	2.5					3/2) dark reddish brown, dense, sa		ASM-U49A-10.5-11.0		
11——			saturated	9	OL		staining. Organic SILT, 70% Organic Silt, 30	% Organic fibors (5VP	ASM-U49A-11.0-11.5	
							6/1) gray, dense, saturated, slight of Soils consistent with UNDorg.	rganic odor, no staining.		
				NR	NR		NO RECOVERY			
15—										
es:										
- belo	ow surface g adow mat		COPR - chro GGM - greer			ng residue	 UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep 	deposits MGP - manufact	ured gas plant ate chemical production w	

roiect	Number:	60240	739			Drilli	ng Method: Direct Push	Coordinates (NJSPNAD	83) X: 610826793							
	arted Drill			1:00:0	0 AM	Rig T		Coordinates (NJSPNAD								
ate Fi	nished Dri	lling:	8/15/2016	11:50:	00 AM		Size: 3.0 in	Boring Total Depth: 15								
ogged	By: KW						ect Manager: Scott Mikaelian	Depth to Water: 6.5								
	I Location	n: Actu	al - Smith	PDI				Surface Elevation: 10.) ft NAVD88							
epth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and	Thickness:	Sample ID							
		0.0		1 0	ONCRET		Concrete sidewalk									
_				NR	NR		VOID SPACE									
1 — 			dry	3	FILL		medium to coarse SAND, some fil brown, loose, dry, no odor, no stai		ASM-W49A-1.0-1.5							
-3	4.5		moist	3	FILL		SILT, trace fine sand and fill debris	c (7.5VP 4/2) brown	ASM-W49A-2.0-2.5							
4			moist	5			medium dense, moist, no odor, no		ASM-W49A-4.0-4.5							
			moist	3	FILL		fine to medium SAND, trace fill de	bris, (5YR 2.5/1) black,								
5		0.0	moist	3	FILL		medium dense, moist, no odor, no	staining.								
_			to				ASH, little fine sand, trace fill debr moist to saturated, no odor, no sta									
6 — 7 —	5		saturated					ning, nator at 0.0 root.	ASM-W49A-6.0-6.5							
8			saturated	3	FILL		SILT, trace fine sand and gravel, (medium dense, saturated, no odor		ASM-W49A-8.0-8.5							
 10		0.0	saturated	3	FILL		SILT, trace fine sand and gravel, (7.5YR 4/2) brown,	ASM-W49A-10.0-10.5							
–							medium dense, saturated, no odor	r, no staining.	ASM-W49A-10.5-11.0							
11										moist	7	PT		PEAT (degraded vegetated materia 40% Organic Silt, (5YR 3/3) dark i dense, moist, slight organic odor, i	reddish brown, very	ASM-W49A-11.0-11.5
12— — 13—	3.5		moist	9	OL		Consistent with MM. Organic SILT, 70% Organic Silt, 3 5/1) gray, very dense, moist, slight staining. Soils consistent with UNI	0% Organic fibers, (5YR t organic odor, no								
 14 				NR	NR		NO RECOVERY									
15																
	ow surface g adow mat		COPR - chro GGM - greer			ng residue	UNDno - non-organic undisturbed nativ UNDorg - organic undisturbed native de	re deposits MGP - manufact	ured gas plant te chemical production w							

oject te St	Name: P Number: arted Drill nished Dri	602407 ing: 8	739 /18/2016 7		AM	Drilli Rig T	ng Company: SGS North America ng Method: Direct Push ype: ™ Size: 3.0 in	Coordinates (NJSPNA Coordinates (NJSPNA Boring Total Depth: 2	D83) y: 682105.035
gged	IBy: KW						ct Manager: Scott Mikaelian	Depth to Water: 7.5	
ysica	al Location	n: Actu	al - Smith	PDI		1		Surface Elevation: 10	0.4 ft NAVD88
epth inge bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Th	nickness:	Sample ID
		0.0		1 0	ONCRE	T E S S	Concrete slab		
1				NR	NR		NO RECOVERY		
- 2			dry	3	FILL		fine to coarse SAND, some fill debris (7.5YR 3/3) dark brown, loose, dry, r	s, trace fine gravel, no odor, no staining.	ASM-X46A-1.0-1.5
	4.5		dry	3	FILL		ASH, some cinders, little fill debris, (loose, dry, no odor, no staining.	7.5YR 3/3) dark brown,	ASM-X46A-4.0-4.5
5		0.0	dry	3	FILL		ASH, some cinders, little fill debris, (brown, loose, dry, no odor, no stainir		_
} — 7 — −	5		moist to saturated	3	FILL		fine sandy SILT, little fine gravel, trac reddish brown, medium dense, mois no staining, water at 7.5 feet.		ASM-X46A-6.0-6.5
3 — — — —									ASM-X46A-8.0-8.5
0		0.0		1 0	ONCRE	re, 4	concrete		
			saturated	3	FILL		fine sandy SILT, little fine gravel, trac reddish brown, medium dense, satur staining.		ASM-X46A-10.5-11.0
2— 3— 4—	. 5								ASM-X46A-12.0-12.5
- 5		0.0	saturated	3	FILL		fine sandy SILT, little fine gravel, trac		ASM-X46A-14.0-14.5
6— — 7—	5						reddish brown, medium dense, satur staining.	aleu, nu uuur, nu	ASM-X46A-16.0-16.5
8									ASM-X46A-18.0-18.5
_									ASM-X46A-18.0-18.5 ASM-X46A-18.5-19.0
9— — 0—			moist	7	PT		PEAT (degraded vegetated material) 40% Organic silt, (5YR 3/3) dark red dense, moist, slight organic odor, no	ldish brown, very	ASM-X46A-19.0-19.5
							Consistent with MM.	/	

roject ate St	Name: P Number: arted Drill nished Dr	60240 ing: 8	739 /16/2016 8			Drilli Rig T	ng Company: SGS North America ng Method: Direct Push ype: ™ Size: 3.0 in	Coordinates (NJSPNAI Coordinates (NJSPNAD Boring Total Depth: 2	83) y: 682168.254
	By: KW	inng.	0/10/2010	<u>0.00.</u> c			ct Manager: Scott Mikaelian	Depth to Water: 6.0	
	al Location	n: Actu	ual - Smith	PDI			3	Surface Elevation: 10	.5 ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thi	ckness:	Sample ID
	-	0.0		1 0	ONCRET		Concrete slab		
1 —	-			NR	NR		NO RECOVERY		
. –	-		dry	3	FILL		ASH, some cinders, trace fill debris, (7.5YR 3/3) dark	ASM-Y43A-1.5-2.0
2 — 3 — 4 —	4.3		to moist				brown, loose, dry to moist, no odor, no	o staining.	ASM-Y43A-2.0-2.5
5	-	0.0	moist to	3	FILL		SILT, little fine sand, trace coarse gra (5YR 3/3) dark reddish brown, dense,	vel and fill debris, moist to saturated, no	-
6 — - 7 —	5		saturated				odor, no staining, water at 6.0 feet.		ASM-Y43A-6.0-6.5
8 9 									ASM-Y43A-8.0-8.5
0 	-	0.0	saturated	3	FILL		fine sandy SILT, little fine to medium ((5YR 3/3) dark reddish brown, mediur no odor, no staining.		ASM-Y43A-10.0-10.5
2 3 4	. 5								ASM-Y43A-12.0-12.5
- 15	-								AUNI-140A-14.0-14.0
- 6		0.0	saturated	3	FILL		fine sandy SILT, little fine to medium ((5YR 3/3) dark reddish brown, mediur no odor, no staining.	gravel, trace organics, n dense, saturated,	ASM-Y43A-15.5-16.0
	. 5		moist	7	PT		PEAT (degraded vegetated material), 50% Organic silt, (5YR 3/3) dark redd dense, moist, slight organic odor, no s consistent with MM.	lish brown, very	ASM-Y43A-16.0-16.5
19—	-					<u><u> </u></u>			
 20			moist	9	OL	<u> </u>	Organic SILT, (70% Organic silt 30% 6/1) gray, dense, moist, slight organic Soils consistent with UNDorg.	Organic fibers), (5YR odor, no staining.	



Boring ID: ASM-Y44A

oject	Number:	60240	739			Uriiii	ng Method: Direct Push	Coordinates (NJSPNAD8	3) X: 010950.518
	arted Drill			:45:00	AM	Rig T		Coordinates (NJSPNAD8	
	nished Dri							Boring Total Depth: 20	
	By: KW							Depth to Water: 7.0	-
	al Location		ual - Smith	PDI				Surface Elevation: 10.2	ft NAVD88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and Thick	iness:	Sample ID
		0.0	dry	3	FILL		fine to coarse SAND, trace fine gravel, (dark brown, very loose, dry, no odor, no		ASM-Y44A-0.0-0.5
2 —			dry to moist	3	FILL		ASH, little cinders, trace fill debris, (7.5) loose, dry to moist, no odor, no staining.		ASM-Y44A-2.0-2.5
3 — 4 —	. 5		moist	3	FILL		CINDERS, some ash, little fill debris, (5 moist, no odor, no staining.	YR 6/1) gray, loose,	ASM-Y44A-4.0-4.5
		0.0	moist	3	FILL		CINDERS, some ash, little fill debris, (5	YR 6/1) gray, loose,	
							moist, no odor, no staining.	, , , , , , , , , , , , , , , , , , , ,	ASM-Y44A-6.0-6.5
 7	5		moist to saturated	3	FILL		fine sandy SILT, little fine to medium gra (5YR 3/3) dark reddish brown, medium saturated, no odor, no staining, water at	dense, moist to	, www.i-1-4-0.0-0.3
8 — 9 — 9 —								-	ASM-Y44A-8.0-8.5
0		0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gra (5YR 3/3) dark reddish brown, medium no odor, no staining.	avel, trace organics, dense, saturated,	ASM-Y44A-10.0-10.5
2— 	. 5	5						-	ASM-Y44A-12.0-12.5
4								_	ASM-Y44A-14.0-14.5
5		0.0	saturated	3	FILL		fine sandy SILT, little fine to medium gra (5YR 3/3) dark reddish brown, medium		ASM-Y44A-15.5-16.0
6			moist	7	PT		 no odor, no staining. PEAT (degraded vegetated material), 50 50% Organic silt, (5YR 3/3) dark reddis 	0% Organic fibers h brown, very	ASM-Y44A-16.0-16.5
7 8	5						dense, moist, slight organic odor, no sta consistent with MM.	aning. Soils	
:0			moist	9	OL		Organic SILT, (70% Organic silt 30% O 6/1) gray, dense, moist, slight organic o Soils consistent with UNDorg.	rganic fibers), (5YR dor, no staining.	
	ow surface g adow mat		COPR - chro GGM - greer			ng residue	UNDno - non-organic undisturbed native dep UNDorg - organic undisturbed native deposit		red gas plant e chemical production v

Boring ID: CAR-PDI-GG23A

					ng Company: SGS North America ng Method: direct push	Coordinates (NJSPNA	D83) x: 611448 17
):15·00	AM				
	5, 11, 2010	10.10.					<u> </u>
	ial - CAR F	וחכ				Surface Elevation: 8	.5 ft NAVD88
1. 7.000				1 1			
PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
0.0	moist	3	FILL				CAR-PDI-GG23A-0.0-0.5
	moist	3	FILL		fine to medium SAND, trace fine gra	avel and brick, (7.5YR	
	moist	3	FILL		ASH, trace cinders and fill debris, (5 dense, moist, no odor, no staining.	Y 5/1) gray, medium	CAR-PDI-GG23A-2.0-2.5
	moist	3	FILL			own, medium dense,	CAR-PDI-GG23A-4.0-4.5
		NR	NR		moist, no odor, no staining.		1
0.0	wet	3	FILL			rown, soft, wet, no	CAR-PDI-GG23A-6.0-6.5
							CAR-PDI-GG23A-8.0-8.5
		NR	NR		NO RECOVERY		
0.0	saturated	3	FILL		fine sandy SILT little fine gravel (7	5YR 4/2) brown	CAR-PDI-GG23A-10.0-10.
		-		\times	medium dense, saturated, no odor, i	no staining.	CAR-PDI-GG23A-10.5-11.
	ury	1		<u> </u>	10% organic silt, (5YR 3/2) dark red	dish brown, stiff, dry,	
		NR	NR		NO RECOVERY		
	60240 Iling: 6 rilling: B on: Actu / PID (ppm) 0.0	60240739 Iling: 6/14/2016 S rilling: 6/14/2016 S pn: Actual - CAR F / PID (ppm) Moisture 0.0 moist moist moist 0.0 wet	60240739 Iling: 6/14/2016 9:15:00 rilling: 6/14/2016 9:15:00 m: Actual - CAR PDI Moisture (ppm) Moisture Content GA Class 0.0 moist 3 moist 3 moist 3 0.0 moist 3 3 moist 3 moist 3 0.0 wet 3 3 moist 3 3 3 0.0 wet 3 3 0.0 wet 3 3 0.0 wet 3 3 0.0 saturated 3 3 0.0 saturated 3 3 0.0 saturated 3 3	60240739 Iling: 6/14/2016 9:15:00 AM rilling: 6/14/2016 10:15:00 AM B B B on: Actual - CAR PDI USCS Image: Moisture Class USCS 0.0 moist 3 FILL MR NR NR A NR NR A A Y Y	OPIIII Iling: 6/14/2016 9:15:00 AM Rig T rilling: 6/14/2016 10:15:00 AM Rig T on: Actual - CAR PDI Proje on: Actual - CAR PDI GA USCS Graphic Log on: Actual - CAR PDI Moisture Content GA USCS Graphic Log 0.0 moist 3 FILL Moist 3 FILL MR NR NR NR Moist 4 4 0.0 saturated 3 FILL Moist 4 4 MR NR NR NR Moist 4 4 4 4 4 4<	60240739 Drilling Method: direct push Iling: 6/14/2016 10:15:00 AM Rig Type: rilling: 6/14/2016 10:15:00 AM Core Size: 3.0 in B Project Manager: Scott Mikaelian n: Actual - CAR PDI Surface Cover and Ti / PID Moisture GA (ppm) Moisture GA USCS Graphic 0.0 moist 3 FILL fine to medium SAND, little fine to n 4/2) brown, medium dense, moist, n fine to medium SAND, trace fine gravel, rown, medium dense, moist, n fine to medium SAND, trace fine gravel, rown, medium dense, moist, n moist 3 FILL ASH, trace cinders and fill debris, (5 dense, moist, no odor, no staining. moist 3 FILL SILT, little fine sand, (7.5YR 4/3) br moist 3 FILL SILT, trace fine sand, (7.5YR 4/2) b odor, no staining. 0.0 wet 3 FILL SILT, trace fine sand, (7.5YR 4/2) b odor, no staining. 0.0 saturated 3 FILL SILT, trace fine sand, (7.5YR 4/2) b odor, no staining. 0.1 MR NR NO RECOVERY SILT, little fine gravel, (7. medium	60240739 Drilling Method: direct push Coordinates (NJSPNA Coordinates (NJSPNA Rig Type: Illing: 6/14/2016 10:15:00 AM Rig Type: Coordinates (NJSPNA Boring Total Depth: 1 Illing: 6/14/2016 10:15:00 AM Core Size: 3.0 in Boring Total Depth: 1 B Project Manager: Scott Mikaelian Depth to Water: NA Surface Elevation: 8 n: Actual - CAR PDI Surface Cover and Thickness: Surface Elevation: 8 0.0 moist 3 FILL 4/3 brown, medium dense, moist, no odor, no staining. 0.0 moist 3 FILL 4/3 brown, medium dense, moist, no odor, no staining. moist 3 FILL ASH, trace cinders and fill debris, (5Y 5/1) gray, medium dense, moist, no odor, no staining. 0.0 wet 3 FILL SILT, little fine sand, (7.5YR 4/2) brown, medium dense, moist, no odor, no staining. 0.0 wet 3 FILL SILT, trace fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining. 0.0 saturated 3 FILL SILT, trace fine sand, (7.5YR 4/2) brown, soft, wet, no odor, no staining. 0.0 saturated 3



Boring ID: CAV BEAA

Boring ID: CAV-R50A	
Page: 1	

roject ate St	Name: F Number: arted Dril	60279 l ing: 8	0173 3/1/2018			Drilling Company: SGS Drilling Method: Soft Dig and Direct Push Rig Type: Geoprobe	Coordinates (NJSPN Coordinates (NJSPN	AD83) y: 682084.58													
	nished Dr I By: Brer					Core Size: 2-inch MacroCore	Boring Total Depth: Depth to Water: 8.5														
	al Locatio			Venue		Project Manager: Bill Spronz	Surface Elevation:														
Depth ange t bgs)	Recovery (ft/ft)	PID (ppm)	Moisture	USCS	Graphic Log	c Surface Cover and Thickr		Sample ID													
_		0.0		ASPHALT		Asphalt															
-1				FILL		8 Ballast Stone															
-2			dry	FILL		fine SAND, little coarse gravel, trace silt, (10YR 6/1) gray, loose, dry, no odor, no staining															
-3	5									-	-	-				FILL	FILL Fine to m	fine to medium SAND, little silt, trace ash (10YR 3/3) dark brown	n, trace gravel,		
4				FILL		fine to medium SAND and gravel, (10YR	5/3) brown	CAV-R50A-4.1-4.6													
5		0.4	slightly moist	FILL		fine to coarse SAND, little fine to coarse (glass, (7.5YR 4/1) dark gray, loose med moist no odor no staining	gravel trace debris ium dense, slightly														
6									CAV-R50A-6.1-6.6												
7	5		slightly moist	FILL		crushd concrete, (5Y 7/2) light gray, sligh	- /														
8 9 -			moist			fine to coarse SAND, some fine to coarse concrete, (2.5YR 3/1) dark reddish gray, dense, moist to wet no odor no staining	e gravel trace brick, dense to medium														
tes: s - bel 1 - me iments:	ow surface adow mat	grade	COPR - chr GGM - gree	omite ore proc n grey mud	essing re	esidue UNDno - non-organic undisturbed native c UNDorg - organic undisturbed native depo	leposits MGP - manu sits CCPW - chro	factured gas plant mate chemical production w													



Boring ID: CAV-T51A

	t Name: [t Number:					Drilling Company: SGS Drilling Method: Soft Dig	Coordinates (N ISD	NAD83) x: 610753.11
	tarted Dril					Rig Type: None		NAD83) y: 682022.02
			8/1/2018			Core Size:	Boring Total Depth:	
	d By: Eric		511/2010			Project Manager: Bill Spronz	Depth to Water: N	
hysic	al Locatio	n: Ca	en Point A	venue			Surface Elevation:	
Depth Range t bgs)	Decovery		Moisture	USCS	Graphic Log	Surface Cover and Thicl		Sample ID
- J-,		0.0						
_		0.0		ASPHALT FILL	×××××	ASPHALT fine to medium SAND, TRACE GRAVE	1 (7 5VD 2/2) dork	-
-1						brown	L, (7.511(3/2) udik	
	1			FILL		fine to medium SAND, trace gravel, (5Y	2.5/1) black	
-2				FILL		COBBLES, (5Y 2.5/1) black		-
_	5							CAV-T51A-2.4-2.9
-3	-			FILL		fine to medium SAND, some gravel, tra- black	ce slits, $(5Y 2.5/1)$	
-4						block		CAV-T51A-3.1-3.6
_								CAV-T51A-4.4-4.9
lotes: gs - be 1M - me	low surface eadow mat	grade	COPR - chr GGM - gree	omite ore proc n grey mud	essing res	sidue UNDno - non-organic undisturbed native UNDorg - organic undisturbed native dep	deposits MGP - man posits CCPW - ch	ufactured gas plant romate chemical production wa



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: CAV-W51A

MGP - manufactured gas plant CCPW - chromate chemical production waste

	732.564.32	200 office	telephone					Page: 1
Projec	t Name: F	PG Ga	arfield Ave			Drilling Company: SGS		
	t Number:					Drilling Method: Soft Dig and Direct Push	Coordinates (NJSP	NAD83) x: 610796.56
	tarted Dril					Rig Type: Geoprobe		IAD83) y: 681989.52
	inished Dr					Core Size: 2-inch MacroCore	Boring Total Depth:	
	d By: Eric		0/1/2010			Project Manager: Bill Spronz	Depth to Water: 8.5	
	al Locatio		von Doint A	Vonuo			Surface Elevation:	
Fliysic		n. Ca		venue			Surface Elevation.	9.0 II NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and Thickn	iess:	Sample ID
 1	-	0.0		FILL		pre clear		
2 	. 5							
4 5	-	11.3		FILL		fine to medium SAND, some fine to coars	o graval brown	
		11.3		FILL		black, loose, moist, no odor, no staining, asphalt fine to medium SAND, trace amounts of o	trace broken	-
7 7 8	. 5					fine gravel, saturated, loose to medium de no odor, no staining,	ense, brown black,	
9 	-			FILL		medium to coarse SAND, some fine grav odor, slight sheen, loose fine to medium SANDS, trace silt and fine brown, medium dense, no odor, no stainii	e gravel, reddish	-
	-	10.2		FILL		fine to coarse SAND, some coarse gravel chunk of loose concrete in the middle, no	l, loose, dry, black,	CAV-W51A-10.0-10.5
	. 5			FILL		fine to medium SANDS, trace coarse gra brown, no odor, no staining		CAV-W51A-12.0-12.5
 	-			FILL		fine to medium SAND, trace silts and fine brown, no odor, no staining	e gravel, reddish	

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

Comments:



			taway NI 090	354				Boring I	ID: EF-1
			taway, NJ 088 elephone	504					Page:
Project Na Project Nu						Company: Method: A	SGS irknife/Geoprobe	Coordinates (NJSPNAD83) x: 611410.027	
Date Start	ed Drilling	g: 4/	18/2011		Rig Type	e: Airknife/		Coordinates (NJSPNAD83) y: 682481.912	
Date Finis					Core Siz			Boring Total Depth: 25 ft	
Logged B Physical L				arteret	Project	wanager:	Robert Cataldo	Depth to Water: 4/21.2 ft Surface Elevation: 10.0 ft NAVD88	
								(Note bgs = below ground s	surface)
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture Content		USCS	Graphic Log	S	urface Cover and Thickness:	Sample Number
-1 -		0	moist	3	Fill	<u>VII' VII' VI</u>	Grass and Topsoil	fine to medium GRAVEL, little Silt and Fill	_ EF-B18_0
		0	moist	5			Material (slag, met	al, debris), loose, moist. No odor.	
2	-								EF-B18_2 EF-B18_2
3	-	0							
4	F	0							EF-B18_4
5		0.1							
		0.4	wet	3	Fill			5YR 4/3) fine SAND and coarse SAND, some	EF-B18_6
6	-	J.T		+	Fill		Silt, little fine Coal	fragments, medium dense to loose, wet. No	
7	1.6				1 111		No Recovery		
8	1.0								
-9 -									
		0							
10			wet	3	Fill		Reddish Brown (2	5YR 5/3) very fine SAND, little Silt, trace fine	EF-B18_10
11	ſ	0	, wet				Black Sand, loose,	wet. No odor.	EF-B18_1
12							N- D		
13	1.8				Fill		No Recovery		
14									
15		0					0		EF-B18_1
16		0	wet	3	Fill		Same as above.		EF-B18_16
17		0							EF-B18_16
	4.2	105]						EF-B18_17
18	-	105		\vdash					
19			moist	7	OH		Dark Reddish Gray	(2.5YR 3/1) Organic SILTY CLAY, some hesive, stiff, moist. Sulfur odor.	
20 -		76			OH		No Recovery		
21		81	moist	7	OH		Same as above.		
	-		wet	8	SM		Gray (Clav1 2/0)	ery fine to fine SAND, little Silt, trace	_
22	3	0.1	wei		3171		interbedded Clay, I	oose to medium dense, wet. Sulfur odor.	EF-B18_22
23	Č								
					SM		No Recovery		
25						- partanilarit 	End of boring at 25	ft.	
26							0		
28									
29									
30									
31									
32									
33									
35									1



Boring ID: EF-19

_	tsbridge Road 732.564.3200		taway, NJ 088	54				Boring	ID: FF-1
	ame: PP		-		Drilling	Company:	SGS		Page:
Project N	umber: 6	015-4	801		Drilling I	Method: A	irknife/Geoprobe	Coordinates (NJSPNAD83) x: 611215.886	
	ted Drilling shed Drilli				Rig Type Core Siz	e: Airknife/	Geoprobe	Coordinates (NJSPNAD83) y: 682371.915 Boring Total Depth: 25 ft	
Logged E	By: B. Dar	niels,	M. Merding				Robert Cataldo	Depth to Water: 5/23.5 ft Surface Elevation: 10.3 ft NAVD88	
Physical	Location:	Paci	fic Avenue	;		1		Surface Elevation: 10.3 ft NAVD88 (Note bgs = below ground)	surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Su	rface Cover and Thickness:	Sample Number
1		0		2			Black Asphalt		EF-B19_0
2		0	dry	3	Fill			3/2) fine SAND, some Silt, little fine to avel, trace Cobbles, medium dense, dry. No	EF-B19 2
	-	0	dry	6	Fill		\odor.	- /	EF-B19_2
3		-	-				ash, cinders), very lo	SAND, GRAVEL and Fill Material (slag, bose, dry. No odor.	
_4		0							EF-B19_4
5		24.2	wet	3	Fill		Black to Dark Poddi	sh Gray (5YR 4/2) SILT and fine to medium	
6		98.6	wei	5	1 111		SAND, little fine ang	ular Gravel and Concrete, trace Coal, loose,	EF-B19_6
7	4.5				Fill		 wet. Napthalene od No Recovery 	or.	_
8	1.5								
9 –									
_10		33.4							EF-B19_1
11 -		1.7	wet	3	Fill		Same as above.		EF-B19_1
12			1		Fill		No Recovery		
	1.1								
13									
		10 F							
15		18.5	moist	3	Fill		Reddish Brown (2.5)	YR 4/3) fine SAND, little very fine Sand and	EF-B19_15
16		143					Silt, medium dense,		_
17	3.4	191	moist	7	PT			(5YR 3/2) PEAT, Organics, little Silty Clay,	EF-B19_17
18	0.1					<u>1/ <u>1/</u> <u>1//</u></u>	semi-conesive, med	ium stiff, moist. Sulfur odor.	EF-B19_17
19					PT	<u> 34 34 3</u>	No Recovery		
20		3.5				<u>1/ 1/ 1/ 1/</u>			
		4	moist	7	PT	$\frac{\sqrt{1_{1}}}{\sqrt{1_{2}}} \frac{\sqrt{1_{2}}}{\sqrt{1_{2}}} \frac{\sqrt{1_{2}}}{\sqrt{1_{2}}}$	Same as above, inte	erbedded with Red-Brown Silty Sand.	
		101	wet	8	SP		Grav (Glav1 3/0) vor	y fine to fine SAND, trace Silt, medium	-
23	4.3	113	WEL		0		dense, wet. No odo		EF-B19_22
		-	1						
					SP		No Recovery		_
25					JF		End of boring at 25 f	ft.	
26							U		
27									
29									
30									
31									
32									
-33									
-34 -									
J-1			1	1 L		1			1



Page:	1	
-------	---	--

	ECO							Boring	ID: EF-2
30 Knig	htsbridge Road 732.564.3200	d, Piscat office te	taway, NJ 088 elephone	154					Page:
	ame: PP					Company:		Coordinates (NUSDNAD92) vv. 011100.014	
Date Star	lumber: 6 ted Drilling	015-4 a: 4/	18/2011			e: Airknife/	irknife/Geoprobe Geoprobe	Coordinates (NJSPNAD83) x: 611129.014 Coordinates (NJSPNAD83) y: 682221.139	
	shed Drilli				Core Siz			Boring Total Depth: 25 ft	
	3y: B. Dai				Project I	Manager:	Robert Cataldo	Depth to Water: 6.3/20 ft	
Physical	Location:	Paci	fic Avenue	<u>}</u>				Surface Elevation: 10.7 ft NAVD88 (Note bgs = below ground	surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Su	urface Cover and Thickness:	Sample Number
1		0	moist	2	Fill		Black Asphalt	R 4/3) SILT, little fine angular Gravel and Fill	EF-B20_0.
		0		5				s, cinders, debris), loose, moist. No odor.	
2			-						EF-B20_2. EF-B20_2.
3		0	-						
4		0	-						EF-B20_4.
5		143							
6		0.3	wet	6	Fill		Black SILT, some F	ill Material (cinders, ash, coal) and fine to	EF-B20_6
		5.5	1				medium Sand, very	soft, wet at 6.3'. No odor.	EF-B20_7
7	2.2								
8	<u> </u>				Fill		No Recovery		
9 –									
		0							
10		-	wet	3	Fill		Reddish Brown (2.5	YR 4/3) SILT and fine SANDY SILT,	EF-B20_10
11		0						medium dense, wet. No odor.	EF-B20_12
12									
13 —	2.3				Fill		No Recovery		-
14									
		1 4							
15		1.4		3	Fill		Same as above.	~	EF-B20_15
16		1.8	moist	7	OH		Very Dark Gray (10)	YR 3/1) Organic SILTY CLAY, little to trace	EF-B20_17
17							Organics, cohesive,	, moist. Sulfur odor.	сг-в20_1/
18	2.1				OH		No Recovery]
19									
20		0.3			05				
		0.4	wet	8	SP		Gray (Gley1 3/0) ve dense, wet. No odo	ry fine to fine SAND (SP), trace Silt, medium or.	
							-,		EF-B20_22
	2				SP		No Recovery		
23									
24									
25									
							End of boring at 25	ft.	
27 -									
28									
29									
30									
31									
32									
33									
34									
35			1			1			



Boring ID: EF-21

6	
Page:	1
Coordinates (NJSPNAD83) x: 611037.146	
Coordinates (NJSPNAD83) y: 682131.021	
Boring Total Depth: 25 ft	
Depth to Water: 2/20.5 ft	
Surface Elevation 10.0 ft NAVD88	
(Note bgs = below ground surface)	
rface Cover and Thickness: Sample Number	
YR 3/1) SILT some medium to fine Gravel).5

	htsbridge Road 732.564.3200		away, NJ 088 lephone	354				Boring	ID: EF-2
	ame: PP		-		Drilling	Company:	SGS		Page:
Project N	umber: 6	015-4	801		Drilling	Method: Ai	irknife/Geoprobe	Coordinates (NJSPNAD83) x: 611037.146	
	ted Drilling shed Drilli				Rig Type Core Siz	e: <u>Airknife/</u>	Geoprobe	Coordinates (NJSPNAD83) y: 682131.021 Boring Total Depth: 25 ft	
	By: B. Da			ger			Robert Cataldo	Depth to Water: 2/20.5 ft	
Physical	Location:							Surface Elevation 10.0 ft NAVD88 (Note bgs = below ground	surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Su	Irface Cover and Thickness:	Sample Number
1		0	dry	2	Fill		Black Asphalt		EF-B21_0
		-	to	3				YR 3/1) SILT, some medium to fine Gravel, Aaterial (cinders, slag, coal, glass), loose, dry	
2		0	wet				to wet at 2', slight sh	neen. No odor.	EF-B21_2 EF-B21_2
3		0							
4		2.1							EF-B21_4
5		0							
		0							
6									EF-B21_6
7	2.7	0	moist	3	Fill		Dark Reddish Gray	(2.5YR 3/1) SILT and fine SAND, trace fine	 EF-B21_7
8					Fill		Gravel, soft, moist. No Recovery	No odor.	'
9									
10 -		0							EF-B21 10
11 -		0	moist	3	Fill		Same as above		
		0	moiot	3	Fill		Maak Dad (10D 4/2) fine CAND, some Silt, trace secree Sand	
12	3.2	0	moist	3	ГШ) fine SAND, some Silt, trace coarse Sand dium dense, moist. No odor.	EF-B21_12 EF-B21_12
13									
14					Fill		No Recovery		
15		0							
16 —		0	moist	3	Fill		Same as above.		EF-B21 16
17 -		0							
	5	164	1						EF-B21_17
18			moist	7	PT			n (5YR 3/2) PEAT, Organics, little Silty Clay,	
19		584				$\frac{I_{j}}{I_{j}} \propto \frac{V_{j}I_{j}}{V_{j}} \propto \frac{V_{j}I_{j}}{V_{j}}$	semi-conesive, mec	lium stiff, moist. Sulfur odor.	
20		14.6		-		<u></u> <u></u> <u></u>			
21 -		72.4	moist wet	7	OL ML	┢╷┐┯┼	stiff, moist. Sulfur c	ay (Gley1 3/0) SILT interbedded, medium	-
		64.8					Dark Gray (Gley1 3/ interbedded, soft, w	(0) SILT and fine to medium SANDY SILT	
23	3						interbedded, Soit, W		EF-B21_22
					ML		No Recovery		
24									
25							End of boring at 25	ft	
26	1						End of borning at 20		
27									
28									
30									
31									
32									
33									
34									
35									



	Htsbridge Road 732.564.3200		away, NJ 088	54				Boring	ID: EF-22
Project N Project N	732.564.3200 lame: PP(lumber: 6 rted Drilling	G Soil 015-4	<u>RIWP</u> 801		Drilling	Company: Method: Ai ə: Airknife/	irknife/Geoprobe	Coordinates (NJSPNAD83) x: 610965.439 Coordinates (NJSPNAD83) y: 682066.301	Page: 1
	shed Drilli				Core Siz			Boring Total Depth: 25 ft	
	By: B. Dar						Robert Cataldo	Depth to Water: 5.6/23 ft Surface Elevation: 9.4 ft NAVD88	
Physical	Location:	Paci			Smith Mov	ing		(Note bgs = below groun	d surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Su	Irface Cover and Thickness:	Sample Number
_1	-	0	dry moist	2	Fill	*****	Black Asphalt	0YR 2/2) to Gray (5Y 5/1) fine to medium	— EF-B22_0.5
2		0	to wet	0			SAND, some Silt ar	Ash, little fine to coarse Gravel and Fill s, cinders), loose, moist to wet at 5.6'. No	EF-B22_2.0 EF-B22_2.5
3		1							
5		0.5							
6									EF-B22_5.5
7					Fill		No Recovery		
8	1								
9									
10	-	0.5							EF-B22_10.
11		1.1	wet wet	6	Fill Fill	-	Gray (5Y 5/1) SILT Reddish Brown (2.5	and ASH, loose, wet. No odor. YR 4/3) SILT and fine SAND, little fine	~
12							angular Gravel, soft		EF-B22_12.
13	2.1				Fill		No Recovery		
14									
15	-	0							
16		247	moist	7	PT		Dark Reddish Brow semi-cohesive, med	n (5YR 3/2) PEAT, Organics, little Silty Clay, lium stiff, moist. Sulfur odor.	
17		274				<u> </u>			
18	5	1456				$\frac{I_{f}}{I_{f}} = \frac{\sqrt{I_{f}}}{\sqrt{I_{f}}} = \frac{\sqrt{I_{f}}}{\sqrt{I_{f}}}$			EF-B22_17. EF-B22_17.5
19		790							
20	-	276				<u>1/ 1/ 1/ 1/</u>			
		347				<u>1/ 1/ 1/ 1/</u>			
22		289				<u><u>v</u>, <u>v</u>, <u>v</u>, <u>v</u></u>			
23	4.4	96.8	moist	7	PT-SP		medium dense, mo		EF-B22_22.
24			wet	8	SP			erbedded very fine and fine SAND, loose,	
25					SP		No Recovery		
26							End of boring at 25	ft.	
27									
28									
29									
30									
31									
32									
33									
34									
35									



	tsbridge Roa 732.564.3200		away, NJ 088	854				Boring	ID: EF-
	ame: PP				Drilling	Company:	SGS		Page
Project N	umber: 6	015-4	801		Drilling	Method: H	land Auger	Coordinates (NJSPNAD83) x: 611134.102	
	ted Drillin shed Drilli				Rig Type Core Siz	e: Hand A	uger	Coordinates (NJSPNAD83) y: 682206.028	
	sneu Driin By: M. Me						Robert Cataldo	Boring Total Depth: 3 ft Depth to Water: N/A ft Surface Elevation: 10.7 ft NAVD88	
Physical	Location:	Park	ing lot on	Pacific	Avenue, n	ear Caven	Point Avenue	Surface Elevation: 10.7 ft NAVD88	nd surface)
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content		USCS	Graphic Log	Su	rface Cover and Thickness:	Sample Numbe
1		0	dry dry	2 6	Fill Fill	-	Asphalt and Gravel	d FILL (concrete, brick), dense. No odor.	_
2		0	ury		1 111			THE (Concrete, blick), dense. No odor.	
									EF-B97_
3			moist	3	Fill		Brown (7.5YR 4/4) v loose. No odor.	very fine SAND, little fine angular Gravel,	
4							End of boring at 3 ft.		
5									
6									
7 -									
8 -									
9									
10									
11									
12									
13									
14									
15 _									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27 _									
28									
29									
30									
31									
32 _									
33 –									
34 _				1 1					



	tsbridge Road		taway, NJ 088 elephone	54				Borin	g ID: EF-98
Project N Project N Date Star	ame: PP umber: 6 ted Drilling	<u>G Soil</u> 6015-4 g: 8/	RIWP 801 11/2011		Drilling Rig Type	Company: Method: Ha e: Hand Au	and Auger	Coordinates (NJSPNAD83) x: 610971.7 Coordinates (NJSPNAD83) y: 682058.45 Decima Tatal Durather 0.6	
	shed Drilli by: M. Me				Core Siz		Robert Cataldo	Boring Total Depth: 3 ft Depth to Water: N/A ft	
				Pacific			Point Avenue	Depth to Water: N/A ft Surface Elevation: 9.4 ft NAVD88 (Note bgs = below gr	
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	GA Class	USCS	Graphic Log	Su	Inface Cover and Thickness:	Sample Number
_1 _		0	dry dry	2	Fill Fill	A 4 4 A A	Asphalt and Gravel Brick and Concrete	slah	
2		0	ary		1		Blick and Concrete	Siab	
			dry	3	Fill		Brown (7.5YR 4/4) f	fine SAND and medium to coarse Gravel,	EF-B98_2.5
							<u>medium dense. No</u> End of boring at 3 ft	odor.	
4									
5									
6									
7									
8									
9 –									
10 _									
12 -									
13									
14									
15									
16									
17									
18									
19									
_20									
25									
29									
30									
31									
32									
33									
35 -			1	1		1			1



30 Knightsbridge Road, Piso 732.564.3200 office							Page: 1
Project Name: PPG Ga					Company: SGS North America		
Project Number: 6015	4801				Method: Soft Dig	Coordinates (NJSPNAD83	
Date Started Drilling:	9/4/2012 1:05	5:00 PN	A	Rig Typ		Coordinates (NJSPNAD83	y: 682399.4375
Date Finished Drilling:		15:00 F	PM	Core Siz		Boring Total Depth: 2 ft	
Logged By: Ben Danie Physical Location:	eis			Project	Manager: Chris Martell	Depth to Water: Surface Elevation:	
				· ·		SUITACE ETEVATION: (Note bgs = b	U.9 IT INAV D88 elow ground surface)
Depth Range (ft bgs)			USCS	Graphic Log	Surface Cover and	Thickness:	Sample ID
range (ff/ff) (pp	m) Content	Class	FILL	Log	Surrace Cover and CONCRETE silty SAND, little fine to medium (7.5YR 4/3) brown, moist, no odd	gravel and fill material,	



Boring ID: EF-128

Page:	1
-------	---

Project Name: Project Number: Date Started Dril		rfield Ave			_			
						ng Company: SGS North America		
Date Started Dril						ng Method: Soft Dig	Coordinates (NJSPNAI	
						ype: NA	Coordinates (NJSPNAD	
Date Finished Dr		12/13/201	2 10:3	0:00 AM		Size: 6 in	Boring Total Depth: 2.	5 ft
Logged By: B.I	Janiels					ct Manager: Chris Martell	Depth to Water: NA Surface Elevation: 10.	4 A NAVDOO
Physical Locatio	n: Cav	en Point A	ve ne	ar Hallada	ay St		Sufface Elevation: 10.	4 ILINA V 1200 s = below ground surface)
Donth								
Depth Range (ft bgs)	(ppm)	Moisture Content	Class		Graphic Log	Surface Cover and Th	ickness:	Sample ID
_	0.0	dry		ASPHAL		ASPHALT		
4	0.0		3	FILL		Dark brown (7.5YR 3/2) silty SAND fine to coarse angular Gravel, dry, u	with Cobbles, some	
1 2.5	0.0		3	FILL		COBBLES		
	0.0	moist	3	FILL		Dark gray (7.5YR 4/1) fine to coars	e SAND with	
		moist	5			Cobbles, little fine to medium angu Material (coal, ash, cinders), moist,	lar Gravel, little Fill	EF-128-2.0-2.5
Comments: No COF	PR/GGM i	identified.						



Boring ID: ICO-07

			away NLL000	54				Boring ID	: ICO-0
30 Knig	htsbridge Road 732.564.3200	d, Piscat office te	away, NJ 088 Ilephone	54					Page:
	ame: PP					Company:		Coordinates (NUCRNAD22) vv. C10424 551	
	umber: 6 ted Drilling					e: Airknife/	rknife/Geoprobe Geoprobe	Coordinates (NJSPNAD83) x: 610434.551 Coordinates (NJSPNAD83) y: 682322.793	
Date Fini	shed Drilli	ng: 5	5/13/2011		Core Siz	e: 2 in		Boring Total Depth: 25 ft	
	By: B. Dar Location:				Project I	Manager: F	Robert Cataldo	Depth to Water: 4.0/20.0 ft	
riiysicai		0						(Note bgs = below ground si	urface)
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture Content		USCS	Graphic Log	Su	rface Cover and Thickness:	Sample Number
1		0	dry	3	Fill			3/2) fine to coarse SAND, little fine to e Fill (brick, glass, coal), loose. No odor.	ICO-7_0.
2		0							ICO-7_2.
3		0	moist	3	Fill			fine to medium SAND, some Silt, little fine le Fill (brick, coal), medium dense. No odor.	
4		0	wet	3	Fill		Dark Brown (7 5YR 1	3/2) SILT, some very fine to medium Sand,	ICO-7_4.
5		0					_ little Clay, trace fine	to medium Gravel, little Fill (brick, coal,	
6		0	moist	3	Fill		Slag), medium stiff. − Reddish Brown (5YF)	No odor. R 4/4) SILT to fine Silty SAND, trace fine /	ICO-7_6.
7 -			moist	6	Fill		\angular Gravel, med	lium dense. No odor.	
8	2.1		moist	6	Fill		Cinders and Brown (7.)	5 YR 4/4) SILT, some Cinders, interbedded	
							No Recovery	· · · · · · · · · · · · · · · · · · ·	
9									
10		0	wot	6	Fill		Plack and Provin (7	5 VP 4/4) SILT some Cinders soft/losss	ICO-7_10
11			wet	6	Fill		No odor.	5 YR 4/4) SILT, some Cinders, soft/loose.	
12		0					Brown crushed FILL Cinders, little Silt, loo	(ceramics, coal, gravel), some Ash and	ICO-7_12
13	2		wet	6	Fill		No Recovery		
14		0.4							
15		0.1	wet	3	Fill		Brown (7 5YR 5/2) fi	ne SAND and SILT, very soft. No odor.	ICO-7_15
16			moist	7	CL		. ,	ace fine angular Gravel, semi-cohesive,	
17			moist	7	CL		\medium stiff. No od	or.	
18	1						No Recovery		
19									
		0							
20			wet	10	SW-SM		Brown (7.5 4/2) fine	to coarse graded SAND, little Silt, loose. No	
21		0	wet	10	SP-SM		odor.	R 4/6-5/6) fine to medium graded SAND,	
22	3.5	0	mol		0. 000		little to trace Silt, loo		
23	5.5								
24			wet	10	SP-SM		No Recovery		
25							,		
26							End of boring at 25 f	it.	
27 -									
28									
29									
30									
31									
32									
33									
_									
34									

PPG - GINT Comments: No GGM/COPR identified at this location.

35



30 Knightsbridge Road, Piscataway, NJ 08854 732.564.3200 office telephone

Boring ID: ICO-08 / SCB-12

	ntsbridge Road 732.564.3200		away, NJ 088 lephone	354				Boring ID: ICO-08	/ SCB-
	ame: PP				Drilling	Company:	SGS		raye
	umber: 6 ted Drilling					Method: Air a: Airknife/0	knife/Geoprobe	Coordinates (NJSPNAD83) x: 610546.215 Coordinates (NJSPNAD83) y: 682222.578	
	shed Drilli				Core Siz			Boring Total Depth: 25 ft	
	y: B. Dar				Project I	Manager: R	obert Cataldo	Depth to Water: 5.0 ft Surface Elevation: 18.6 ft NAVD88	
Physical	Location:	Sout	nern Cana	al Area				(Note bgs = below ground	surface)
Depth Range (ft bgs)	Recovery (ft/ft)		Moisture Content		USCS	Graphic Log	Su	rface Cover and Thickness:	Samp Numb
1	-	0	dry	3	Fill			ine to coarse SAND, some fine to medium k, ash, glass, slag), loose. No odor.	ICO-8_
2	-	0	moist	3	Fill		Brown (7 5VP //3) fi	ne to coarse SAND, some fine to medium	ICO-8_2
3			moist		1 111		angular Gravel, little	Fill (brick, glass, slag, debris), trace	
4		0					organics, medium de		ICO-8_4
5 _		0	moist	3	Fill		Reddish Brown (5YF fine Gravel trace Fil	R 4/3) fine to medium SAND, little Silt, some I (brick, coal, ash), medium dense. No odor.	
6			moist	6	Fill		Brown SILT interbed	Ided with Black ASH and CINDERS, trace	ICO-8
7			to wet	6	Fill		No Recovery	loose to med dense. No odor. Wet at 5.3'.	1000_
	1		wet						
8									
9									
10		0							ICO-8_1
11			wet	3	Fill		coal fragments), me	n SAND, some Silt, little Fill (cinders, ash, dium dense. No odor.	
12 _			wet	3	Fill		No Recovery		
13	1.2								
14									
		2							
15		0.5	wet	3	Fill		Brown (7.5YR 4/3) S	SILT and fine to medium SAND, little coarse	ICO-8_1
16	-						Sand, soft/loose. No	o odor.	ICO-8_1
17	4.3	0.5							_
18		1.2	wet	3	Fill		Black stained SILT, Clay, soft. Slight co	trace Organics, fine angular Gravel, and al tar odor	
19			moist	7	PT		Dark Brown (10YR 3	3/3) PEAT, organics, little Silty Clay,	
20		0.1	moist	7	PT		No Recovery	ium stiff. Sulfur odor.	
21 _			moist moist	9	CL CL		Dark Gray (2.5yr 4/1 medium stiff. Sulfur) Silty CLAY, trace organics, cohesive,/	
22 -					02		No Recovery	/	
23	0.3								
24									
25							End of boring at 25 f	ft.	
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									1



Boring ID: P3BS-PDI-TP0+80-250R

	t Name: [Drilling Company: ENTACT	Coordinates (NI 100	NAD02) VI 640675 0007
	t Number:	00035	140 11/5/2020	7.05.00 444		Drilling Method: Test pit		NAD83) x: 610675.3397
Jate 5	inichad D	iiiig. iiiimaa	11/5/2020	7:05:00 AM) 10:00:00 AN		Rig Type: Mini Excavator Core Size: 2x6 ft	Boring Total Depth:	NAD83) y: 682180.8472
	d By: Alar			5 10.00.00 AN		Project Manager: Cameron Dixon	Depth to Water: N	
byein	allocatio	n Hal	lladav St/Co	aven Point Rd	Interse	tion	Surface Elevation:	
					1110130			
Depth Range it bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphic Log	Surface Cover and	Thickness:	Sample ID
		15.7		FILL		Topsoil, roots, vegetation, (7.5YR 3	3/2) dark brown	
1				FILL		coarse SAND, with gravel, some rc (7.5YR 2.5/1) black		P3BS-PDI-TP-0+80-250R-0.8-1.
-1	3.2			FILL		coarse SAND, with gravel, (7.5YR	2.5/1) black	
_	-							P3BS-PDI-TP-0+80-250R-2.2-2
-3	_							P3BS-PDI-TP-0+80-250R-2.7-3
Notes: bgs - be <u>VIM - me</u> comments:	eadow mat	grade	COPR - chr GGM - gree	omite ore proc en grey mud	essing re	sidue UNDno - non-organic undisturbed n UNDorg - organic undisturbed nativ	ative deposits MGP - mar e deposits CCPW - ch	ufactured gas plant romate chemical production was



Boring ID: P3BS-PDI-TP-1+50-80R

Project Number: 0005148 Drilling Method: Test pit Coordinates (NUSPNADB3) x: 610551.0100 Date Stande Offiling: 11/4/2020 11/2020 12:30:00 PM Core Size: 2:86 ft Boring Test Booth Depth : 6 ft Boring T	Project Name:			Drilling Company: ENTACT	0	
Date Finished Drilling: 11/4/2020 12:30:00 PM Core Size: 2x8 ft Boring Total Depth: 6.ft Logged By: Tarique Islam Project Manager: Cameron Dixon Depth Depth Physical Location: Caveron Point Rd Surface Elevation: 14.4 ft NAVD88 Depth Recovery PID Moisture USCS Graphic Thomas 0.0 FiLL fine to coarse SAND, some coarse gravel, little fill debris: (ash, bricks, ceramic and metal fragments), trace sittl. (7.5 VR 4/2) brown, loose, dry to moist, no odor, no staining -1 -3 0.0 FiLL fine to medium SAND, some coarse gravel, little sitt and fill debris (ash, bricks, ceramic and metal fragments), trace sittle, (7.5 VR 4/2) brown, loose, dry to moist, no odor, no staining			11.00.00 414			
coged By: Tarique Islam Project Manager: Cameron Dixon Depth to Water: NA hysical Location: Caven Point Rd Surface Elevation: 14.4 ft NAVD88 brander targe targe (rtht) PID (rtht) Moisture (ppm) USCS Graphic Log Surface Cover and Thickness: Sample Sample 1						
hysical Location: Caver Point Rd Surface Elevation: 14.4 ft NAVD88 Depth thgs Recovery (tht) (pp) Moisture (pp) USCS Graphic Log Surface Cover and Thickness: Sample ID 1			J 12.30.00 PI			
Depth lange (ft/ft) PID (ppm) Moisture Content USCS Graphic Log Surface Cover and Thickness: Sample ID			2d			
Lange (http://tpm) Content USCS Graphic Log Surface Cover and Thickness: Content						
-1 - 3 -1 - 3 -2 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -3 - - -4 - - -3 - - -4 - - -3 - - -4 - - -3 - - -4 - - -3 - - -4 - - -5 - - - -1 - - - -1 - - - -1 - -	Range (recovery		USCS	c Surface Cover and Th	ickness:	
				(ash, bricks, ceramic and metal fragm (7.5YR 4/2) brown, loose, dry to mois fine to medium SAND, some coarse of debris (ash, bricks, ceramic and meta	pents), trace silt, st, no odor, no staining gravel, little silt and fill al fragments), (7.5YR	P3BS-PDI-TP-1+50-80R-3.7-4.



Boring ID: P3BS-WC-47R

	t Name: F					Drilling Company: ENTACT	Consultants - (11/00	NA D02) we 040004 004
	t Number:			0.00 00 51		Drilling Method: Test pit		NAD83) x: 610681.634
				2:00:00 PM		Rig Type: Mini Excavator		AD83) y: 682177.812
			11/6/2020	1:00:00 PM		Core Size: 3x6 ft	Boring Total Depth:	
	d By: Alar					Project Manager: Cameron Dixon	Depth to Water: N	
nysic	ai Locatio	n: Hal	iaday St/Ca	ven Point Ro	Interse		Surface Elevation:	10.3 π ΝΑΥΔ88
epth ange bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	C Surface Cover and T	hickness:	Sample ID
		0.0	dry to moist	FILL		Topsoil, vegetation, roots, some fine coarse gravel	to coarse sands, little	
-1			dry	FILL		fine to coarse SAND, some coarse g ash, (7.5YR 3/2) dark brown, dry, sli	ravel, little cobbles and ght petroleum odor	
_			dry	FILL		fine to coarse SAND, some coarse g (bricks, metal glass and slag, little co 3/2) dark brown, dry, slight petroleun	bbles and ash, (7.5YR	-
2	4		dry to	FILL		coarse SAND, some cobbles and del metals, wood fragments and ash), lit	bris (bricks, glass,	-
			moist dry to	FILL		moist coarse SAND, with large cobbles and mottled blue-green sands, little grave		-
3			moist moist	FILL		conglomerates with light green staini staining), (5YR 5/3) reddish brown coarse SAND, with large cobbles, gr	ing (chromium-like	-
-4						coarse SAND, with large cobbles, gra (metals, bricks, ceramics), (7.5YR 3, 2.5/1) black, moist		
	low surface adow mat	grade	COPR - chro GGM - greer	omite ore proc	essing re	sidue UNDno - non-organic undisturbed nat UNDorg - organic undisturbed native	tive deposits MGP - man deposits CCPW - ch	ufactured gas plant romate chemical production w



Boring ID: PAC-CC39A

Project No	ame: F					Drilling Company: SGS Drilling Method: Soft Dig and Direct Push	Coordinates (NUSP	NAD83) x: 611135.8
			7/31/2018			Rig Type: Geoprobe		NAD83) y: 682223.1
			8/1/2018			Core Size: 2-inch MacroCore	Boring Total Depth:	
.ogged B			5, 1, 2010			Project Manager: Bill Spronz	Depth to Water: 9.	
hysical I	Locatio	n: Pac	ific Avenue				Surface Elevation:	
Depth Re	ecovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thick		Sample ID
		0.0		ASPHALT		ASPHALT		
		0.0	Ĺ	FILL		fine to medium SAND, little rock fragmer (7.5YR 6/3) light brown	nts trace gravel,	PAC-CC39A-0.7-1.2
-1	5			FILL		Cobbles and gravel encountered above 3 medium SAND, little rock fragments, tra 6/3) light brown	3.0 ft. fine to ce gravel, (7.5YR	
-4		0.0	moist	FILL		fine to medium SAND, little coarse sand	fine groupl trace	PAC-CC39A-3.4-3.9
		0.0	moisi	FILL		coarse gravel, (2.5YR 2.5/3) dark reddis medium dense, moist no odor no stainin	h brown, loose to g	PAC-CC39A-5.4-5.9
-6	5		moist	FILL		fine to coarse SAND, little fine gravel tra crushed concrete, coarse gravel, (5YR 3 brown, medium dense, moist no odor no	/3) dark reddish	
-9			moist	FILL		fine to medium SAND, trace fine gravel t	trace coarse sand	_
-10			moiot			(5YR 6/4) light reddish brown, medium o no odor no staining	lense, moist to wet	
lotes: gs - below /M - meade	surface		COPR - chro GGM - gree		essing r	esidue UNDno - non-organic undisturbed native o UNDorg - organic undisturbed native dep	deposits MGP - man osits CCPW - ch	ufactured gas plant romate chemical production wa



Boring ID: PAC-Y50A

Page: 1

Project	t Name: F	PG Ga	rfield Ave			Drilling Company: SGS		Page: 1
	t Number:					Drilling Method: Soft Dig and Direct Push		NAD83) x: 610880.66
	tarted Dril					Rig Type: Geoprobe		AD83) y: 681983.16
	inished Dr					Core Size: 2-inch MacroCore	Boring Total Depth:	
	d By: Eric					Project Manager: Bill Spronz	Depth to Water: 9.0	
Physic	al Locatio	n: Pad	cific Avenue	2	1	1	Surface Elevation:	9.6 ft NAVD88
Depth Range (ft bgs)	Recovery (ft/ft)	PID (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and Thickr	iess:	Sample ID
		0.0		ASPHALT	XXXX	Asphalt		
 - 1 2 	- 5			FILL		fine to medium SAND, trace cobbles, trac trace ash, (10YR 3/3) dark brown	e gravel, trace silt,	
3	-			FILL	XXX	fine to medium SAND, little ash, trace col	hble trace gravel	-
	-					trace silt. (10YR 5/3) brown.		_
4 	-			FILL		Jackhammer refusal due to heavy slag. B approximately 20 ft north and preclear ad bgs.	Boring relocated vanced to 5.0 ft	
	5	6	moist	FILL		fine to coarse SAND, trace ash, trace cru 4/1) dark gray, medium dense, moist no o	shed brick,, (2.5Y odor no staining	PAC-Y50A-10.8-11.3 PAC-Y50A-12.8-13.3
14 15	-							
Notes: bgs - be MM - m								
bgs - be MM - me	low surface eadow mat	grade	COPR - chr GGM - gree	omite ore proc en grey mud	essing r	esidue UNDno - non-organic undisturbed native d UNDorg - organic undisturbed native depo		ufactured gas plant romate chemical production waste

Comments:



Boring ID: PAC-Z46A

	ne: PPG Ga				Drilling Company: SGS		NA D02) 010071 15
	nber: 60279				Drilling Method: Soft Dig		NAD83) x: 610971.45
	d Drilling:				Rig Type: None		NAD83) y: 682069.78
	ed Drilling:	8/2/2018			Core Size:	Boring Total Depth:	
	Eric Acs				Project Manager: Bill Spronz	Depth to Water: N	
nysical Lo	ocation: Pa	CIFIC Avenue	e		<u> </u>	Surface Elevation:	9.8 TT NAVD88
	eovery PID t/ft) (ppm)	Moisture Content	USCS	Graphi Log	c Surface Cover and	Thickness:	Sample ID
	0.0		ASPHALT	~~~~	ASPHALT	~	
-1 -2	5		FILL		fine to medium SAND, trace silts, dark brown	trace gravel, (7.5YR 3/2)	
-	5		FILL		fine to medium SAND, trace silts,	trace gravel, trace ash.	_
-3					4 (7.5YR 3/2) dark brown		_
_			FILL		fine to medium SAND, little ash, tr trace slag, (7.5YR 3/2) dark browr	ace silts, trace gravel,	PAC-Z46A-3.4-3.9 PAC-Z46A-3.8-4.3
-4			FILL		fine to medium SAND, trace silts, dark brown	trace gravel, (7.5YR 3/2)	FAU-240A-3.6-4.3
otes: gs - below s M - meadow	urface grade	COPR - chr	omite ore proce	essing r	esidue UNDno - non-organic undisturbed UNDorg - organic undisturbed nati	native deposits MGP - man	ufactured gas plant romate chemical production wa

AECOM
0 Knightshridge Bood, Disector

Boring ID: SCB-16

	t Name: P t Number:						ing Company: SGS North America ing Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD	83) x: 610550 6
	tarted Drill			0.28.0	0 414		Type: NA	Coordinates (NJSPNAD	
								i i	
	inished Dri		0/23/2012	1.30:0			e Size: 2 in ect Manager: Chris Martell	Boring Total Depth: 20	ц
.oggeC	d By: B.D. al Locatior		thorn Mar			Pr0	ect manager: Chins Martell	Depth to Water: 6.4 ft Surface Elevation: 17.4	ft NAVD88
nysica	al location	i. <u>5</u> 00	mern Mori	us Can	dl				IT INAV D88 = below ground surface)
								(11010 593	- below ground surface,
Depth Range t bgs)	(#/#)	PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and T	hickness:	Sample ID
	_	0.4	dry	3	FILL		Very dark grayish brown (10YR 3/ SAND, little Silt, little fine to coars Fill Material (glass, wood fragmen	e angular Gravel, little	SCB-16-0.0-0.5
-1		0.0	dry	3	FILL		odor. Reddish brown (2.5YR 4/3) fine to	coarse SAND, some	
-2	5	1.3	dry	3	FILL		fine to coarse angular Gravel, little fragments, debris), trace Silt, dry, Brown (7.5YR 4/2) fine to medium	no odor.	
-3	-	0.0	dry	6	FILL		coarse angular Gravel, little Fill Ma	aterial (wood	
- 4	-	0.0	dry	3	FILL		Gray (7.5YR 5/1) FILL MATERIAL glass, debris), dry, no odor. Dark gray (7.5YR 4/1) fine to coar	se SAND, little Silt,	SCB-16-4.0-4.5
- 5	-	29.2	moist	3	FILL		little fine to medium angular Grave (slag, brick, wood fragments), dry, Gray (7.5YR 5/1) fine to medium S	el, little Fill Material	
- 6	-	0.0					medium angular Gravel, little Fill M	laterial (wood	
-	1	0.0 30.2	moist wet	3	FILL FILL		fragments, asphalt), dense, moist,	//	
-7	2.4				FILL		Very dark gray (5YR 3/1) SILT and GRAVEL, medium stiff, moist to w	et at 6.4 ft, no odor. /	
- 8	-						Very dark gray (5YR 3/1) SILT, litt little Fill Material (glass, wood frag hydrocarbon odor.		
- 9	-						NO RECOVERY		
-10		0.0	wet	3	FILL		Very dark gray (5YR 3/1) SILT, tra	ce wood fragments,	SCB-16-10.0-10.5
–		0.0	wet	3	FILL		soft, wet, no odor.		
-11	-	1.4	wet	3	FILL		Reddish brown (5YR 4/3) SILT, litt no odor. Black (5YR 2.5/1) clayey SILT and	I fine to coarse SAND,	
-12	2.3				FILL		little fine angular Gravel, soft, wet, hydrocarbon odor. NO RECOVERY	moderate	SCB-16-11.8-12.3
-13— — -14— —	-								
-15		0.0	moist	3	FILL		Black (5YR 2.5/1) CLAY, soft, mo	st, no odor.	
-16		0.8 0.0	moist moist	3	FILL FILL		Black (5YR 2.5/1) FILL MATERIAI fragments), dense, moist, slight hy	/drocarbon odor.	SCB-16-16.0-16.5
-17	2.6						Black (5YR 2.5/1) CLAY, little woo moist, no odor.	d fragments, soft,	
-18		0.0	moist	10	SW SW	**************************************	Reddish brown (2.5YR 4/3) fine to Silt, trace shells, medium dense, r		
-19							NO RECOVERY		
20							o		



Boring ID: SCB-17

Date St	Number: arted Drilli nished Dri	60240 i ng: 8/	/23/2012 8	00:00	AM	Drilli Rig 1	ng Company: SGS North America ng Method: Soft Dig/Geoprobe Type: NA Size: 2 in	Coordinates (NJSPNAD Coordinates (NJSPNAD Boring Total Depth: 20	83) y: 682227.9	
	By: B. D		0/23/2012	10.10.			ect Manager: Chris Martell	Depth to Water: 5.5 ft		
	al Location		thern Morr	ris Can	al	FIOJ	Crimanager. Crims Marten	Surface Elevation: 17.	6 ft NAVD88	
nyolo		. 000							= below ground surface)	
Depth Range t bgs)		PID (ppm)	Moisture Content		USCS	Graphic Log	Surface Cover and Th	ickness:	Sample ID	
_ 1	-	0.0	dry	2	FILL FILL		ASPHALT Brown (7.5YR 4/2) fine to coarse S fine to coarse angular Gravel, little brick, coal, debris), dry, no odor.			
-2 -3	5								SCB-17-2.0-2.5	
-	-	0.0	dry	3	FILL		Dark gray (7.5YR 4/1) fine to coars little fine to coarse angular Gravel, (ash, cinders, ceramic, wood fragm	little Fill Material		
- 4 _		0.0	moist	3	FILL		odor. Dark brown (7.5YR 3/2) fine to coal	rse SAND, little Silt,	SCB-17-4.0-4.5	
-5	_	0.0	moist	3	FILL		little fine to coarse angular Gravel, (brick, wood fragments, glass, debr Dark gray (7.5YR 4/1) fine to coars	ris), moist, no odor. /		
-6	-	0.0	wet	3	FILL		little fine to medium angular Gravel moist to wet at 5.5 ft, no odor. Olive (5Y 4/3) clayey SILT, soft, we	, medium dense,		
-7	2				FILL		NO RECOVERY			
-10 -11 -12	2.5	0.0	wet	3	FILL		Dark gray (7.5YR 4/1) fine to coars little fine to medium angular Gravel (wood fragments, brick, metal, deb wet, no odor.	, little Fill Material	SCB-17-10.0-10.5 SCB-17-12.0-12.5	
-13 -14 -	- 2.0				FILL		NO RECOVERY			
-15	-	0.0	wet	3	FILL		Black (5YR 2.5/1) fine to medium s to medium angular Gravel, medium	ilty SAND, little fine dense, wet, no odor.		
-16 -17	-	8.1	moist	7	PT	<u></u>	Dark yellowish brown (10YR 3/4) P stiff, moist, slight organic odor.	EAT, trace organics,	SCB-17-16.0-16.5	
 -18 - -19 -	2.5				PT		NO RECOVERY			
-20										



Boring ID: SCB-18

	Name: P						ng Company: SGS North America	o " ("	
	Number:			1 o = -			ng Method: Soft Dig/Geoprobe	Coordinates (NJSPNAD	
	arted Drilli						Type: NA	Coordinates (NJSPNAD	
	nished Dri			8:52:0	U AM		Size: 2 in	Boring Total Depth: 20) tt
	By: Ben					Proje	ect Manager: Chris Martell	Depth to Water: 6 ft Surface Elevation: 17	7 ft NIAVD00
nysica	al Location	: Sou	thern Morr	ris Can	al				./ Π NAVD88 = below ground surface)
								(NOLE DOS	Solon ground sundle)
epth ange	Recovery	PID	Moisture	GA	USCS	Graphic	Surface Cover and T	hielenaar	Sample
bgs)	(ft/ft)	(ppm)	Content	Class	0303	Log	Surface Cover and T	HICKHESS.	ID
bgo)									
_		0.0	dry	3	FILL		Dark brown (7.5YR 3/2) silty SANI		
4							angular Gravel, little Fill Material (trace organics, dry, no odor.	glass, brick, debris),	
							trace organics, dry, no odor.		
2	F	3.6	moist	3	FILL	XXXX	Dark gray (7.5YR 4/1) silty SAND,	little fine to coarse	SCB-18-2.0-2.5
-	5						angular Gravel, little Fill Material		
3 —		7.7	moist	3	FILL		moist, slight organic odor.		SCB-18-3.0-3.5
		1.1	moist	5			Very dark gray (7.5YR 3/1) silty S/ medium angular Gravel, little Fill N	AND, little fine to	000 10 0.0 0.0
4 —		E 7			E 11 /		ash), moist, slight organic odor.		
_		5.7	moist	3	FILL		Very dark gray (7.5YR 3/1) silty S	AND, little fine to	
5 —							coarse angular Gravel, little Fill Ma		
-		0.0	moist	3	FILL	\otimes	fragments, glass, debris), moist, s Gray (7.5YR 5/1) fine to coarse S/		
6 —							fine to medium angular Gravel, litt		
0		0.0	wet	3	FILL		moist to wet at 6 ft, no odor.		SCB-18-6.0-6.5
					-	\boxtimes	Very dark gray (7.5YR 3/1) fine to	coarse SAND, little	
7 —	2.4					\otimes	Silt, little fine to medium angular G	iravel, dense, wet, no	
_	2.4				FILL		NO RECOVERY		
8 —									
_									
9 —									
_						\boxtimes			
10—									
		0.0	wet	3	FILL		Dark gray (7.5YR 4/1) CLAY, little	silt, medium stiff, wet,	SCB-18-10.0-10.
		0.0	wet	3	FILL		─ no odor. ─ Dark brown (7.5YR 3/2) fine to me		
11		0.0	wet	3	FILL		\neg wet, no odor.		
-		0.0	wet	3	FILL		Black (5YR 2.5/1) fine to medium		
12—	3.2	0.0			DT				
_	3.2	0.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) cla stiff, wet, slight organic odor.	yey SIL I, trace coal,	SCB-18-12.5-13.
13—							\sim Very dark brown (7.5YR 2.5/2) PE	AT, trace organics.	
_					PT	<u></u>	stiff, moist, slight organic odor.	,	
14—						1/ 1/ 1/	NO RECOVERY		
_						<u> 11</u> <u>11</u>			
15—		40.0				(,) (,)			
_		40.0	moist	7	PT		Very dark brown (7.5YR 2.5/2) PE	AT, trace organics,	
16—						<u>1/ 1/ 1/ 1/</u>	stiff, moist, slight organic odor.		
.0						<u>v, 1</u> <u>v, 1</u>			
47						1, <u>1, 1</u>			
17—	3.1					<u> 1/ 1/</u>			
_	J.1								
18—					PT	<u> </u>			
_					ΡI		NO RECOVERY		
19—						<u>// // //</u>			
_						<u> \\ /</u> \ <u>\ /</u>			
20						1/ 1/ 1/ 1			