

Appendix B

APTIM Soil Boring Logs



200 Horizon Center Blvd
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SOIL BORING LOG

PROJECT NUMBER: 146429 **PPG - SITE 174 - WEST FIRST STREET**
SOIL BORING - SB-31

DATE STARTED: 11.07.2013 DATE COMPLETED: 11.07.2013
 Northing: Easting: Elevation: TOTAL DEPTH: 10.0 Ft

Geologist: Jeff Alexander
 DRILLING METHOD: 2" Macro Core Track mounted Geoprobe PAGE: 1 of 1

DEPTH (ft)	RECOVERY (%)	DEPTH (ft)	DESCRIPTION	USCS SYMBOL	SAMPLE DEPTH (Ft)	PID DATA (ppm)	remarks
5.0	100%	0.0-0.5	GRASS and ROOTS		0.0-0.5	---	
		0.5-1.0	Brown SILT and SAND some GRAVEL, dry			---	
		1.0-1.5				---	
		1.5-2.0				---	
		2.0-2.5			2.0-2.5	---	
		2.5-3.0	CONCRETE pieces			---	
		3.0-3.5	Brown SAND and GRAVEL		3.0-3.5	---	
		3.5-4.0				---	
		4.0-4.5	Red BRICK material		4.0-4.5	---	
10.0	100%	5.0-5.5	SAND and GRAVEL			---	
		5.5-6.0	Red brown SAND and GRAVEL			---	
		6.0-6.5			6.0-6.5	---	
		6.5-7.0				---	
		7.0-7.5	3" Dark Gray ASPHALT material			---	
		7.5-8.0	Dark Brown SAND and SILT and GRAVEL, wet			---	
		8.0-8.5			8.0-8.5	---	
		8.5-9.0				---	
		9.0-9.5				---	
12.0	100%	10.0-10.5	Dark Brown SAND and SILT and GRAVEL, wet		10.0-10.5	---	
		10.5-11.0				---	
		11.0-11.5				---	
		11.5-12.0				---	

END OF BORING 12 FT

NOTES:

Drilling Contractor: EPI
 Drilling Equipment: Track-mounted Geoprobe
 Driller: Bob

▼ Groundwater Level intercepted in Soil Boring.

bgs = Below ground surface



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BORING NUMBER SDL_01

CLIENT PPG Industries, Inc.
PROJECT NUMBER 151134
DATE STARTED 11/9/15 **COMPLETED** 11/9/15
DRILLING CONTRACTOR EPI
DRILLING METHOD Track mounted Geoprobe
LOGGED BY K. Treacy **CHECKED BY** J. Alexander
NOTES No PID available

PROJECT NAME PPG 174
PROJECT LOCATION Dennis Collins Park, Bayonne, NJ
GROUND ELEVATION 6.6 ft **HOLE SIZE** 3 inches
GROUND WATER LEVELS:
 ▽ **AT TIME OF DRILLING** 7.00 ft / Elev -0.40 ft
 ▼ **AT END OF DRILLING** 7.00 ft / Elev -0.40 ft
 ▼ **AFTER DRILLING** 7.00 ft / Elev -0.40 ft

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brown coarse SAND, little fine angular gravel, little muscovite, loose, dry	
					Red clayey SILT, little coarse angular gravel, dense, dry	
2.5	GB S02					
	GB S03				Dark Brown fine to medium SAND, some wood, semi dense, dry	
					CONCRETE	
5.0					Gray fine to medium SAND, little silt, trace wood, trace coarse angular FILL, semi dense, moist	
	GB S04					
					Orange Brown silty SAND, some wood, dense, wet	
7.5					Gray Brown sandy SILT, some red silt lenses, trace fine angular gravel, dense, wet	
	GB S05					
10.0						

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BORING NUMBER SDL_01

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Reddish Gray silty SAND, little gray silt lenses, little coarse angular gravel, dense, wet	
12.5	GB S07				Gray SILT, trace wood, wet, dense, staining	Staining at 12' bgs
13.0						Refusal at 13' bgs after three attempts
15.0						

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_02

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/9/15 **COMPLETED** 11/9/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 1.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 1.00 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 1.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.0 - 2.5	GB S01				Red Brown clayey SILT, trace fine angular gravel, semi-dense, dry	
2.5 - 4.0	GB S02					
4.0 - 5.0	GB S03				Black Gray f-m silty SAND, trace fine angular gravel, loose, moist	
5.0 - 7.5	GB S04				SAA, trace shells, trace wood, loose, wet	
7.5 - 8.0						
8.0 - 10.0	GB S05				Black f-m silty SAND, some coarse angular gravel, little coarse angular fill, wet, staining	Staining @ 8- 15' BGS
10.0						

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BORING NUMBER SDL_02

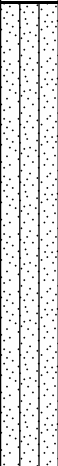

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5						
	GB S07				Black Gray native SILT, dense, wet	
15.0						

13.5 -7.5

15.0 -9.0

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_03

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/9/15 **COMPLETED** 11/9/15 **GROUND ELEVATION** 5.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.40 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Red Brown clayey SILT, some coarse angular gravel, dense, dry	
2.5	GB S02					
	GB S03				Black Gray f-m silty SAND, trace fine angular gravel, trace coarse angular fill, trace wood, semi-dense, moist	
5.0					Red Brown clayey SILT, little fine angular gravel, dense, moist	
	GB S04				Black Gray f-m silty SAND, trace fine angular gravel, trace coarse angular fill, trace wood, semi-dense, moist	
7.5	GB S05				Black f-m silty SAND, some coarse angular gravel, little coarse angular fill, semi dense, wet, staining	Staining at 7'-13' bgs
10.0						

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BORING NUMBER SDL_03

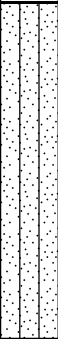

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5						
	GB S07				Black Gray native SILT, dense, wet	
15.0						

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_04

CLIENT PPG Industries, Inc.	PROJECT NAME PPG 174
PROJECT NUMBER 151134	PROJECT LOCATION Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/9/15 COMPLETED 11/9/15	GROUND ELEVATION 5.7 ft HOLE SIZE 3 inches
DRILLING CONTRACTOR EPI	GROUND WATER LEVELS:
DRILLING METHOD Track mounted Geoprobe	▽ AT TIME OF DRILLING 7.00 ft / Elev -1.30 ft
LOGGED BY K. Treacy CHECKED BY J. Alexander	▼ AT END OF DRILLING 7.00 ft / Elev -1.30 ft
NOTES No PID available	▼ AFTER DRILLING 7.00 ft / Elev -1.30 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Red Brown clayey SILT, little coarse angular gravel, dense, dry	
2.5	GB S02					
	GB S03				Black Gray f-m silty SAND, some fine angular gravel, some coarse angular fill, little wood, semi-dense, dry	
5.0					Same as above, moist	
	GB S04					
7.5					Black f-m silty SAND, some black f-m ash, some coarse angular gravel, some coarse angular FILL, little wood, semi-dense, wet, staining	Staining at 7' bgs to 13' bgs
	GB S05					
10.0						

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BORING NUMBER SDL_04

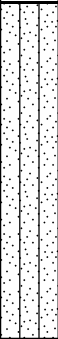

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5						
	GB S07				Black Gray native SILT, dense, wet	-6.8
15.0						
					Bottom of borehole at 15.0 feet.	-9.3



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BORING NUMBER SDL_05

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/9/15 **COMPLETED** 11/9/15 **GROUND ELEVATION** 6.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -0.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -0.40 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -0.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Red Brown clayey SILT, little coarse angular gravel, dense, dry	
2.5	GB S02					
	GB S03				Black Gray f-m silty SAND, some fine angular gravel, some coarse angular fill, little wood, semi-dense, dry	
5.0						
	GB S04				Same as above, moist	
7.5						
	GB S05				Black f-m silty SAND, some black f-m ash, some coarse angular gravel, some coarse angular fill, little wood, semi-dense, wet, staining	Staining at 7' bgs
10.0						

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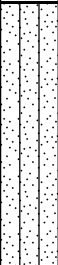



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BORING NUMBER SDL_05

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5	GB S07				Black Gray native SILT, dense, wet	
15.0						

12.0 -5.4

15.0 -8.4

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_06

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/10/15 **COMPLETED** 11/10/15 **GROUND ELEVATION** 6.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** 6.00 ft / Elev 0.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** 6.00 ft / Elev 0.90 ft
NOTES No PID available **AFTER DRILLING** 6.00 ft / Elev 0.90 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.0 - 2.5	GB S01				Red Brown clayey SILT, some brown coarse sand lenses, little fine angular gravel, dense, dry	
2.5 - 5.0	GB S02					
5.0 - 6.0	GB S03				Same as above, moist	1.9
6.0 - 7.5	GB S04				Brownish Red f-m SAND, some silt, loose, wet	0.9
7.5 - 10.0	GB S05					
10.0						-3.1

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BORING NUMBER SDL_06

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Black f-m silty SAND, some black f-m ash, some coarse angular gravel, little wood, trace shells, semi-dense, wet	
12.5						
	GB S07					
14.0						
					Red Brown clayey SILT, some coarse angular gravel, semi-dense, wet	
15.0						
					Black Gray native SILT, loose, wet	
17.5						
					Red Silty CLAY, some coarse angular shale gravel, little f-m brown sand lenses, dense, wet	
20.0						
					Bottom of borehole at 20.0 feet.	



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/10/15 **COMPLETED** 11/10/15 **GROUND ELEVATION** 6.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.10 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.10 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.10 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Red Brown clayey SILT, some brown coarse sand lenses, little fine angular gravel, dense, dry	
2.5	GB S02					
					3.0 3.9	
					Orangish Brown m-c SAND, trace fine angular gravel, semi-dense, dry	
5.0	GB S03					
					5.0 1.9	
					Orangish Brown sandy SILT, trace coarse angular gravel, dense, dry	
7.5	GB S04					
					6.0 0.9	
					Gray Brown SILT, dense, moist	
10.0	GB S05					
					10.0 ▼ -3.1	

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BORING NUMBER SDL_07

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
					13.0 -6.1	
					Red coarse angular GRAVEL, some sandy silt, semi-dense, wet	
15.0					15.0 -8.1	
					Same as above	
17.5						
20.0					20.0 -13.1	
					Same as above	

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BORING NUMBER SDL_07

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
22.5					Same as above <i>(continued)</i>	
	GB S07				Red native SILT, dense, wet	
25.0						

Bottom of borehole at 25.0 feet.



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BORING NUMBER SDL_08

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/10/15 **COMPLETED** 11/10/15 **GROUND ELEVATION** 7 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -2.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -2.00 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -2.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Reddish Brown clayey SILT, little fine angular gravel, dense, dry	
2.5	GB S02				Brownish Red sandy SILT, trace fine angular gravel, trace fibers, dense, dry	
5.0	GB S03				Same as above	
7.5	GB S04					
	GB S05				Gray native SILT, semi-dense, dry	
10.0						

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BORING NUMBER SDL_08

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	

Bottom of borehole at 11.0 feet.

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TREFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ



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BORING NUMBER SDL_09

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/10/15 **COMPLETED** 11/10/15 **GROUND ELEVATION** 7 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -2.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -2.00 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -2.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Reddish Brown clayey SILT, little fine angular gravel, dense, dry	
2.5	GB S02				Brownish Red sandy SILT, trace fine angular gravel, dense, dry	
5.0	GB S03				Same as above, moist	
7.5	GB S04					
	GB S05				Gray native SILT, semi-dense, wet	
10.0						

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BORING NUMBER SDL_09

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5						
					12.0 -5.0 Red coarse angular GRAVEL, some sandy silt, loose, wet	
15.0						
					15.0 -8.0 Bottom of borehole at 15.0 feet.	



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 7.1 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 8.00 ft / Elev -0.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 8.00 ft / Elev -0.90 ft
NOTES No PID available **▼ AFTER DRILLING** 8.00 ft / Elev -0.90 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Reddish Brown clayey SILT, little fine angular gravel, trace fine rounded quartz, dense, dry	
2.5	GB S02				Red stiff CLAY, trace sand lenses, trace fine angular, dense, wet	
					Quartzite COBBLES	
					No recovery due to cobbles	
5.0	GB S03				Quartzite COBBLES	
					No recovery due to cobbles	
7.5	GB S04				Brown Red sandy SILT, semi-dense, moist	
					Schist COBBLES	
	GB S05				Blackish Brown f-m silty SAND, semi-dense, wet	
					Yellow Brown coarse SAND, dense, wet	
					Quartzite COBBLES	
10.0						

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BORING NUMBER SDL_10

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Yellow Brown coarse SAND, dense, wet	
12.5					Red coarse angular GRAVEL, some stiff clay, little loose sand, dense, wet	-4.9
15.0					Same as above	-7.9
17.5	GB S07				Red native soft CLAY, dense, moist	-9.9
19.0					Bottom of borehole at 19.0 feet.	-11.9



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 5.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -3.50 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -3.50 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -3.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 5.0	
	GB S01				0.8 Yellow coarse SAND, dense, dry 4.8	
					1.0 Quartzite COBBLES 4.5	
					Red sandy SILT, little gray silt lenses, trace fine angular gravel, dense, dry	
2.5	GB S02					
					3.0 2.5	
					Gray SILT, some red sandy silt lenses, semi-dense, dry	
					4.0 1.5	
	GB S03				Black f-m ASH, semi-dense, dry	
					4.5 1.0	
					Red native stiff CLAY, dense, moist	
5.0					5.0 0.5	
					Same as above	
	GB S04					
7.5						
	GB S05					
					9.0 ▼ -3.5	
					Red native stiff CLAY, some fine angular gravel, semi-dense, wet	
10.0					10.0 -4.5	

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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
	GB S07				Red sandy SILT, some coarse angular gravel, dense, wet	
15.0						

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_12

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 6.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.50 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.50 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5						6.0
0.8					Yellow coarse SAND, dense, dry	5.8
1.0					CONCRETE	5.5
					Red sandy SILT, semi-dense, dry	
2.0						4.5
2.5	GB S02				Brownish Red clayey SILT, trace gray sand lenses, trace fine angular gravel, dense, moist	
4.0	GB S03				Same as above	2.5
5.0						
	GB S04					
7.5						
	GB S05					
9.0					Red coarse angular GRAVEL, some stiff clay, little coarse sand, dense, moist	-2.5
10.0						-3.5

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BORING NUMBER SDL_12



CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
	GB S07				Red stiff native CLAY, trace coarse angular gravel, dense, wet	
15.0						
					Red stiff native CLAY, little coarse angular gravel, little yellow silt mottling, dense, wet	
17.5						
					Red stiff native CLAY, little coarse angular gravel, dense, wet	
20.0						

Bottom of borehole at 20.0 feet.



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BORING NUMBER SDL_13

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 6.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.50 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.50 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					6.0	
0.8					Yellow coarse SAND, dense, dry	5.8
1.0					CONCRETE	5.5
					Grayish Red sandy SILT, trace fine angular gravel, semi-dense, dry	
2.5	GB S02					
3.0					Brownish Red clayey SILT, trace gray sand lenses, trace fine angular gravel, dense, moist	3.5
5.0	GB S03					
5.0					Same as above	1.5
7.5	GB S04					
9.0					Red coarse angular GRAVEL, some stiff clays, little coarse SAND, dense, moist	-2.5
10.0	GB S05					
10.0						-3.5

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BORING NUMBER SDL_13

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5	GB S07					
				13.0	Red stiff native CLAY, trace fine angular gravel, dense, wet	-6.5
15.0				15.0		-8.5

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_14

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/17/15 **COMPLETED** 11/17/15 **GROUND ELEVATION** 6.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -2.50 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -2.50 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -2.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Medium Brown f-m SAND, little silt, little subrounded fine gravel	
					1.0 5.5	
					Brownish red sandy SILT, some yellow clay lenses, trace fine subrounded gravel, semi-dense, dry	
					2.0 4.5	
2.5	GB S02				Red silty SAND, trace fine subrounded gravel, semi-dense, moist	
					3.0 3.5	
					Brownish Red clayey SILT, little f-m SAND, semi-dense, moist	
					5.0 1.5	
5.0	GB S03				Brownish Gray clayey SILT, some yellow gray clay lenses, trace fine subrounded gravel, dense, moist	
					8.0 -1.5	
					Reddish Brown native SILT, dense, moist	
					9.0 -2.5	
	GB S05				Red coarse angular gravel, some stiff clay, little coarse sand, semi-dense, wet	
10.0					10.0 -3.5	

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BORING NUMBER SDL_14

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0					Same as above	
12.5						
15.0			15.0			

Bottom of borehole at 15.0 feet.

-8.5



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 4.3 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe ∇ **AT TIME OF DRILLING** 10.00 ft / Elev -5.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander ∇ **AT END OF DRILLING** 10.00 ft / Elev -5.70 ft
NOTES No PID available ∇ **AFTER DRILLING** 10.00 ft / Elev -5.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 3.8	
					0.8 Yellow coarse SAND, dense, dry 3.6	
					1.0 CONCRETE 3.3	
					Grayish Red sandy SILT, trace fine angular gravel, dense, dry	
2.5	GB S02					
					4.0 0.3	
	GB S03				Brownish Red clayey SILT, trace gray/yellow sand lenses, trace fine angular gravel, dense, moist	
5.0					5.0 -0.7	
					Same as above	
	GB S04					
7.5						
	GB S05					
					8.5 -4.2	
					Red coarse angular GRAVEL, some stiff clay, dense, moist	
10.0					10.0 -5.7	

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BORING NUMBER SDL_15

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5	GB S07				Red stiff native CLAY, trace fine angular gravel, dense, wet	-8.2
15.0						-10.7

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/11/15 **COMPLETED** 11/11/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -4.20 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -4.20 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -4.20 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					5.3	
0.8					Yellow coarse SAND, dense, dry	5.1
1.3					Dark Brown sandy SILT, little fine subrounded gravel, dense, dry	4.6
2.5	GB S02				Brownish Red clayey SILT, little coarse angular gravel, dense, dry	
4.0	GB S03				Red sandy SILT, trace fine rounded gravel, trace gray sand lenses, dense, dry	1.8
5.0					Red stiff CLAY, dense, moist	0.8
7.5	GB S04					
8.0					Gray Green SILT, trace fine angular gravel, dense, moist	-2.2
8.5	GB S05				Red fine angular GRAVEL, some stiff red clay, dense, moist	-2.7
10.0						-4.2

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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Red clayey SILT, semi-dense, trace gray sandy silt lenses, wet	
12.5						
					12.0 -6.2 Red fine angular GRAVEL, some stiff red clay, dense, wet	
					13.0 -7.2 Red stiff native CLAY, some coarse angular gravel, semi dense, wet	
15.0	GB S07					
					15.0 -9.2	

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/12/15 **COMPLETED** 11/12/15 **GROUND ELEVATION** 6.3 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -2.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -2.70 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -2.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 5.8	
	GB S01				0.8 Yellow coarse SAND, dense, dry 5.6	
					1.0 CONCRETE 5.3	
					Dark Brown sandy SILT, trace black f-m ash, dense, dry	
					2.0 4.3	
2.5	GB S02				Grayish Red sandy SILT, trace fine angular gravel, dense, dry	
					3.0 3.3	
					Red sandy SILT, some fine angular gravel, dense, dry	
					4.0 2.3	
	GB S03				Brownish Red clayey SILT, trace fine angular gravel, dense, moist	
5.0					5.0 1.3	
					Same as above	
	GB S04					
7.5						
	GB S05					
					9.0 ▼ -2.7	
					Red coarse angular GRAVEL, some stiff clays, dense, wet	
10.0					10.0 -3.7	

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CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5	GB S07					
				14.0	Red stiff native CLAY, trace fine angular gravel, dense, wet	-7.7
15.0				15.0		-8.7

Bottom of borehole at 15.0 feet.



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BORING NUMBER SDL_18

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/12/15 **COMPLETED** 11/12/15 **GROUND ELEVATION** 6.3 ft **SOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 8.00 ft / Elev -1.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▽ AT END OF DRILLING** 8.00 ft / Elev -1.70 ft
NOTES No PID available **▽ AFTER DRILLING** 8.00 ft / Elev -1.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01			0.5	ASPHALT	5.8
				0.8	Yellow coarse SAND, dense, dry	5.6
				1.0	CONCRETE	5.3
				1.3	Dark Brown f-m SAND, little f-m ash, semi-dense, dry	5.0
2.5	GB S02				Red clayey SILT, little coarse angular gravel, trace gray silt lenses, dense, dry	
				5.0		1.3
5.0	GB S03				Red stiff native CLAY, trace fine angular gravel, semi-dense, moist	
				8.0		-1.7
7.5	GB S04				Red native CLAY, trace fine angular gravel, semi-dense, wet	
				10.0		-3.7
10.0	GB S05					

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BORING NUMBER SDL_18

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above	
12.5					Red native sandy CLAY, trace fine angular gravel, trace yellow mottled lenses, semi-dense, wet	
	GB S07					
15.0				15.0		

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/12/15 **COMPLETED** 11/12/15 **GROUND ELEVATION** 6.3 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.70 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 5.8	
	GB S01				0.8 Yellow coarse SAND, dense, dry 5.6	
					1.0 CONCRETE 5.3	
					Dark Brown f-m SAND, little f-m ash, semi-dense, dry	
					2.0 4.3	
2.5	GB S02				Brown sandy SILT, little gray silt lenses, little brick fine gravel, dense, dry	
					4.0 2.3	
	GB S03				Same as above, some wood	
5.0					5.0 1.3	
					Same as above, moist	
	GB S04				7.0 -0.7	
7.5					Brownish Red f-m SAND, trace silt, semi-dense, moist	
					8.0 -1.7	
	GB S05				Red native CLAY, some coarse angular gravel, dense, moist	
10.0					10.0 ▼ -3.7	

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BORING NUMBER SDL_19

CLIENT PPG Industries, Inc.

PROJECT NAME PPG 174

PROJECT NUMBER 151134

PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
	GB S07				Red native silty CLAY, trace coarse angular gravel, semi-dense, wet	
13.0						-6.7
15.0						-8.7

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/12/15 **COMPLETED** 11/12/15 **GROUND ELEVATION** 6.3 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.70 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 5.8	
	GB S01				0.8 Yellow coarse SAND, dense, dry 5.6	
					1.0 CONCRETE 5.3	
					Dark Brown f-m SAND, little f-m ASH, semi-dense, dry	
					1.7 4.6	
					2.0 CONCRETE 4.3	
2.5	GB S02				Brown sandy SILT, little coarse, angular gravel, trace wood, dense, dry	
					4.0 2.3	
	GB S03				Brown Gray SILT, semi-dense, moist	
5.0					5.0 1.3	
	GB S04				Same as above, little fine angular gravel, semi-dense, moist	
7.5					8.0 -1.7	
	GB S05				Red native CLAY, some coarse angular gravel, dense, moist	
10.0					10.0 ▼ -3.7	

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BORING NUMBER SDL_20

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
	GB S07				13.0	Red native silty CLAY, semi-dense, wet
15.0				15.0		-8.7

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/12/15 **COMPLETED** 11/12/15 **GROUND ELEVATION** 6.3 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.70 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.70 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
					0.5 5.8	
	GB S01				0.8 CONCRETE 5.6	
					Dark Brown f-m SAND, little f-m ash, semi-dense, dry	
					1.3 5.1	
					1.5 CONCRETE 4.8	
					Brown sandy SILT, little coarse angular gravel, dense, dry	
2.5	GB S02				2.5 3.8	
					Brown Gray SILT, semi-dense, moist	
					5.0 1.3	
	GB S03				Same as above	
					7.5	
	GB S04				8.0 -1.7	
					Red native CLAY, some coarse angular gravel, dense, moist	
10.0	GB S05				10.0 ▼ -3.7	



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, wet	
12.5						
	GB S07				Red native silty CLAY, semi-dense, wet	
15.0						

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/13/15 **COMPLETED** 11/13/15 **GROUND ELEVATION** 6.1 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -3.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -3.90 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -3.90 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
	GB S01				0.5 - 5.6 Gray coarse SAND, some angular gravel, loose, dry	
2.5	GB S02				2.0 - 4.1 Red brown/gray mottled SILT, some subangular gravel, dense, moist	
	GB S03				4.0 - 2.1 Red SILT, some sand, some coarse gravel, semi-dense, moist	
5.0	GB S04				5.0 - 1.1 Brown SAND, f-m gravel, little ash, semi-dense, moist	
7.5	GB S05				7.0 - -0.9 Green Gray native SILT, some sand, little wood, semi-dense, moist	
10.0					9.0 - -2.9	

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BORING NUMBER SDL_22

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Same as above, gray sand lenses, wet	
					11.0 -4.9	
	GB S07				Brown native SILT, soft, wet	
12.5						
					13.0 -6.9	
					Red SILT, some f-c gravel, loose wet	
					14.0 -7.9	
15.0						

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/13/15 **COMPLETED** 11/13/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -4.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -4.00 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -4.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					Gray angular GRAVEL, loose, dry	
1.5					Red Brown SILT, some f-m SAND, little gravel, dense, dry	
2.5	GB S01					
2.5	GB S02					
4.0					Red SILT, some sand, some coarse gravel, dense, dry	
5.0	GB S03					
5.0					Red m-c SAND, angular gravel, dense, moist	
5.0	GB S04					
7.0					Brown SILT, some gravel, soft, moist	
7.5	GB S05					
9.0						
10.0						

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BORING NUMBER SDL_23

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Red Brown silty SAND, some gravel, wet	
					11.0 -5.0	
12.5					Brown SAND, some angular gravel, wet	
	GB S07				Green Gray native SILT, wet	
					14.0 -8.0	
15.0					Bottom of borehole at 15.0 feet.	
					15.0 -9.0	



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BORING NUMBER SDL_24

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/13/15 **COMPLETED** 11/13/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft / Elev -4.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 10.00 ft / Elev -4.00 ft
NOTES No PID available **▼ AFTER DRILLING** 10.00 ft / Elev -4.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					Gray gravel, loose, dry	
1.5					Dark gray SAND, some angular gravel, semi-dense, moist	
2.5	GB S02				Brown SAND, some gravel, semi-dense, moist	
5.0	GB S03				Brown silty SAND, some gravel, semi-dense, moist	
7.0	GB S04				Green Gray/Brown mottled SILT, trace gravel, stiff, moist	
7.5	GB S05					
10.0						

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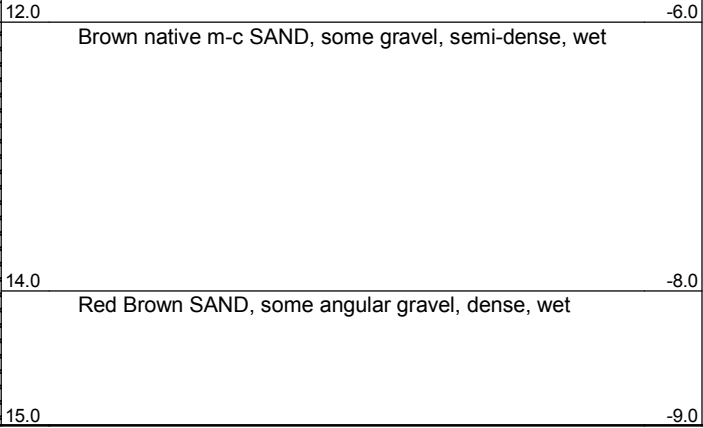
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BORING NUMBER SDL_24

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
	GB S06				Red brown silty SAND, some subangular gravel, wet	
12.5	GB S07				Brown native m-c SAND, some gravel, semi-dense, wet	
					Red Brown SAND, some angular gravel, dense, wet	
15.0					Bottom of borehole at 15.0 feet.	





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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/13/15 **COMPLETED** 11/13/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 9.00 ft / Elev -3.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 9.00 ft / Elev -3.00 ft
NOTES No PID available **▼ AFTER DRILLING** 9.00 ft / Elev -3.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5						
0.8	GB S01				Gray gravel, some fine sand, loose, dry	
1.0					Dark Brown SILT, dry	
					Red Brown SILT, some gravel, loose, dry	
2.0						
2.5	GB S02				Gray SAND, some angular gravel, little ash	
4.0						
4.0	GB S03				Brown SILT, some gravel, moist	
5.0						
6.5	GB S04				Brown native SILT, some roots, moist	
7.0						
7.5	GB S05				Green Gray SILT, soft, moist	
9.0					▼ Red Brown SILT, some gravel, semi-dense, wet	
10.0						

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BORING NUMBER SDL_25

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TREFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0						
					Red Brown SILT, some gravel, semi-dense, wet <i>(continued)</i>	
				11.0	Red Brown SAND, some angular gravel, dense, wet	-5.0
12.5						
				15.0		-9.0

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/13/15 **COMPLETED** 11/13/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
	GB S01				0.5 5.5 Gray gravel, some fine sand, loose, dry	
					0.8 5.3 Brown SILT, some gravel, loose, dry	
2.5	GB S02				2.0 4.0 Dark Gray SAND, some f-c angular gravel, loose, dry	
	GB S03				4.0 2.0 Red Brown SILT, some gravel, stiff, moist	
5.0	GB S04				7.0 -1.0 Dark Brown native SILT, some roots, wet	
7.5	GB S05				7.5 -1.5 Red Brown SAND, some angular gravel, wet	
10.0					10.0 -4.0	

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BORING NUMBER SDL_26

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0					Red Brown SILT, some angular gravel, semi-dense, wet	
12.5						
					13.0 Red Brown SILT, some angular gravel to cobbles, stiff, wet -7.0	
15.0				15.0		-9.0

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/18/15 **COMPLETED** 11/18/15 **GROUND ELEVATION** 5.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRFES01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Light Brown sandy SILT, little fine rounded gravel, dry, loose	0-2' BGS ~ 20% COPR nodules observed
					1.0 Dark Brown sandy SILT, some fine rounded FILL, dry, loose 4.9	
					2.0 Same as above 3.9	2-3' BGS ~ 10% COPR nodules observed
2.5					3.0 2.9	

Bottom of borehole at 3.0 feet.

Refusal with hand auger @ 3' BGS after 3 attempts



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 0.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 0.90 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 0.90 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Asphalt	
					0.5 Concrete	5.4
					1.3 Medium to Dark Brown fine SAND, little fine rounded gravel, loose, dry	4.7
	GB S01				2.0 Same as above, little metal fill	3.9
2.5					2.5 Cobbles	3.4
					3.0 Red Brown f-m SAND, little silt, little fine subrounded gravel, loose, dry	2.9
	GB S02				5.0 ▼ Red m-c SAND, some silt, little coarse angular gravel, dense, wet	0.9
5.0					6.5 Gray coarse native SAND, some fibers, some shells, dense, wet	-0.6
	GB S03				7.5 Reddish Gray m-c SAND, some m-c angular gravel, semi-dense, wet	-1.6
7.5					9.0 Red sandy SILT, some coarse angular gravel, some yellow clay lenses, dense, wet	-3.1
10.0					10.0	-4.1

Hand-auger and vac down to 5' bgs

Bottom of borehole at 10.0 feet.

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\ITREFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ



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BORING NUMBER SDL_28

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/18/15 **COMPLETED** 11/18/15 **GROUND ELEVATION** 5.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Light Brown sandy SILT, little fine rounded gravel, dry, loose	0-2' BGS ~ 15% COPR nodules observed
1.0					Dark Brown sandy SILT, some fine rounded fill, dry, loose	
2.0						

Bottom of borehole at 2.0 feet.

Refusal with hand auger @ 2' BGS after 3 attempts



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 0.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 0.90 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 0.90 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Asphalt	
0.5					Concrete	
1.3					Dark Brown f-m SAND, some fine subrounded fill, little concrete, loose, dry	
2.0	GB S01				Dark Brown f-m SAND, some red silt, trace fine subrounded gravel, semi-dense, moist	
2.5					Cobbles	
3.0	GB S02				Red silty SAND, little fine rounded gravel, little wood, semi-dense, moist	
5.0	GB S03				Red coarse SAND, little coarse angular gravel, dense, wet	Hand-auger and vac down to 5' bgs
6.0	GB S04				Gray native SILT, some yellow fine sand, some fibers, dense, wet	
7.5					Gray fine SAND, dense, dry	
8.0					Red clayey SAND, some coarse angular gravel, little clay lenses, dense, wet	
10.0						

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_29

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/18/15 **COMPLETED** 11/18/15 **GROUND ELEVATION** 7.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
					Light Brown sandy SILT, little fine rounded gravel, loose, dry	0-1' BGS ~ 30% COPR nodules observed
					Dark Brown sandy SILT, little fine rounded gravel, loose, dry	1-2' BGS ~ 15% COPR nodules observed
					Same as above	2-2.5' BGS ~ 10 % COPR nodules observed, Hand auger refusal @ 2.5' BGS after 3 attempts
2.5					Bottom of borehole at 2.5 feet.	



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 0.80 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▽ AT END OF DRILLING** 5.00 ft / Elev 0.80 ft
NOTES No PID available **▽ AFTER DRILLING** 5.00 ft / Elev 0.80 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Asphalt	
0.5					Concrete	
1.3					Dark Brown f-m SAND, some fine subrounded fill, little concrete, loose, dry	
2.0	GB S01				Dark Brown f-m SAND, some red silt, trace fine subrounded gravel, semi-dense, moist	
2.5					Concrete	
3.0					Concrete	
3.5	GB S02				Red silty SAND, little fine rounded gravel, trace yellow clay lenses, semi-dense, moist	
5.0					5.0 ▼ Brown COBBLES, little brown fine sand, dense, wet	Hand-auger and vac down to 5' bgs
6.0	GB S03				Gray coarse SAND, semi-dense, wet	
6.5					Grayish Green native SILT, some fibers, some yellow clay, dense, wet	
7.5	GB S04				7.5 Gray coarse SAND, some red silt lenses, semi-dense, wet	
8.0					8.0 Bottom of borehole at 8.0 feet.	Refusal at 8' bgs



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/18/15 **COMPLETED** 11/18/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
					Light Brown sandy SILT, litte fine rounded gravel, loose, dry	0-1' BGS ~ 15% COPR nodules observed
					Black fine rounded FILL, some brick, some f-m ash, loose, dry	No COPR observed 1-1.5' bgs
					Bottom of borehole at 1.5 feet.	Refusal @ 1.5' BGS after 3 attempts



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BORING NUMBER SDL_30a

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 0.80 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▽ AT END OF DRILLING** 5.00 ft / Elev 0.80 ft
NOTES No PID available **▽ AFTER DRILLING** 5.00 ft / Elev 0.80 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Asphalt	
0.5					Concrete	
1.0	GB S01				Blackish Dark Brown f-m SAND, some fine subrounded fill, little ash, little fine subrounded gravel, loose, dry	
1.5					Concrete	
2.0					Red sandy SILT, trace fine subrounded gravel, semi-dense, moist	
2.5					Red silty SAND, some subangular coarse gravel, little yellow fine sand lenses, semi-dense, loose	
3.5	GB S02				Red silty SAND, some subangular coarse gravel, little yellow fine sand lenses, semi-dense, moist	
4.5					Yellow fine SAND, little red silty sand, trace black ash, trace fine rounded gravel, loose moist	
5.0					Reddish Brown silty SAND, some coarse subangular gravel, dense, wet	Hand-auger and vac down to 5' bgs
6.0	GB S03				Gray coarse SAND, little shells, semi-dense, wet	
6.5					Gray green fine SAND, some silt, dense, wet	
7.0	GB S04				Gray green native SILT, little clay, little yellow sand mottling, dense, wet	
8.5					Yellowish Brown coarse SAND, some shells, little f-m subrounded gravel, semi-dense, wet	
10.0						

Bottom of borehole at 10.0 feet.

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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/18/15 **COMPLETED** 11/19/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brown sandy SILT, little fine rounded gravel, loose, dry	0-1' BGS ~ 10 % COPR nodules observed
					1.0 4.8 Black fine rounded FILL, some f-m black ash, loose, dry	No COPR observed @ 1' BGS
2.5	GB S02					
					3.0 2.8 Red Brown clayey SILT, little fine angular gravel	
	GB S03					
5.0					5.0 0.8 Brown sandy SILT, little fine subrounded gravel, loose, moist	
	GB S04					
					7.0 -1.2 Blue Green hydric native SILT, dense, wet	
7.5	GB S05					
					9.0 -3.2 Gray Brown coarse SAND, little coarse, angular gravel, semi-dense, wet	
10.0					10.0 -4.2	

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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0					Same as above	
12.5					Red sandy SILT, little clay, little coarse angular gravel, dense, wet	
15.0					Bottom of borehole at 15.0 feet.	

12.0 -6.2

15.0 -9.2



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 0.80 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 0.80 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 0.80 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Asphalt	
0.5					Concrete	
1.0	GB S01				Light Brown fine SAND, some medium coarse subangular gravel, little fill, loose, dry	
1.5					Dark Brown fine SAND, some red sandy silt, little fine subangular gravel, loose, moist	
2.5						
3.0	GB S02				Red silty SAND, some m-c subangular gravel, little yellow fine sand lenses, semi-dense, moist	
4.0					Red sandy SILT, some m-c subangular gravel, little clay, trace coal, semi-dense, moist	
5.0	GB S03				Red sandy SILT, some f-m subangular gravel, semi-dense, wet	Hand-auger and vac down to 5' bgs
7.0	GB S04				Dark Brown coarse SAND, semi-dense, wet	
7.5	GB S05				Grayish green native SILT, some fibers, dense, wet	
8.0					Grayish green f-m SAND, semi-dense, wet	
8.5					Reddish Brown silty SAND, some coarse angular gravel, little yellow sand, semi-dense, wet	
10.0						

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_32

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/19/15 **COMPLETED** 11/19/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 8.50 ft / Elev -2.70 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 8.50 ft / Elev -2.70 ft
NOTES No PID available **▼ AFTER DRILLING** 8.50 ft / Elev -2.70 ft

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.5					Light Brown sandy SILT, trace fine rounded gravel, loose, dry	0-1' BGS ~ 5% COPR nodules observed
1.0					Dark Brown sandy SILT, little fine rounded gravel, loose, dry	
2.0	GB S01				Black fine rounded FILL, some f-m black ash, loose, dry	No COPR nodules observed
2.5					Red Brown clayey SILT, semi-dense, dry	
3.5	GB S02				Red Gray sandy SILT, dense, moist	
5.0	GB S03				Brown sandy SILT, little fine subrounded gravel, dense, moist	
7.0	GB S04				Red Gray sandy SILT, little roots, trace fine rounded gravel, dense, moist	
8.5	GB S05				Blue Green hydric native SILT, little roots, trace angular fine gravel, dense, wet	
9.5					Red sandy SILT, little clay, little coarse angular gravel, dense, wet	
10.0						

Bottom of borehole at 10.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/8/15 **COMPLETED** 12/10/15 **GROUND ELEVATION** 5.8 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 4.00 ft / Elev 1.80 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▽ AT END OF DRILLING** 4.00 ft / Elev 1.80 ft
NOTES No PID available **▽ AFTER DRILLING** 4.00 ft / Elev 1.80 ft

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.5					Asphalt	
1.0					Concrete	
1.8					Dark Brown fine SAND, some silt, little yellow m-c subrounded gravel, trace clay lenses, semi-dense, dry	
2.5	GB S01				Boulder	
3.3					Gray Yellow SILT, some clay, little fine SAND, trace fine subrounded gravel, semi-dense, moist	
3.5	GB S02				Gray fine SAND, little silt, little fine subrounded gravel, little coal ash, loose, wet	
4.0					Cobble in Geoprobe shoe, no recovery.	
5.0						Hand-auger and vac down to 5' bgs
7.0						Refusal @ 7' bgs

Bottom of borehole at 7.0 feet.



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BORING NUMBER SDL_33

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/19/15 **COMPLETED** 11/19/15 **GROUND ELEVATION** 5.7 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.30 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.30 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.30 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brown sandy SILT, little rounded fine gravel, loose, dry	
					1.0 4.7	
					Black fine rounded FILL, some f-m ash, loose, dry	
					2.0 3.7	
2.5	GB S02				Red Brown clayey SILT, loose, dry	
					4.0 1.7	
	GB S03				Red Brown sandy SILT, some clay, semi-dense, moist	
					5.0 0.7	
5.0					Same as above, little coarse angular gravel, semi-dense, moist	Hand-auger and vac down to 5' bgs
	GB S04				7.0 ▼ -1.3	
					Gray coarse SAND, some silt, dense, wet	
7.5					8.0 -2.3	
	GB S05				Brown Yellow silty SAND, some fine rounded gravel, dense, wet	
					9.5 -3.8	
					Brown Yellow sandy native SILT, some yellow mottling, dense, wet	
10.0					10.0 -4.3	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_34

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/19/15 **COMPLETED** 11/19/15 **GROUND ELEVATION** 5.7 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.30 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.30 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.30 ft

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brown sandy SILT, little fine rounded gravel, loose, dry	
					1.0 4.7	
					Black fine rounded FILL, some f-m ash, loose, dry	
2.5	GB S02					
					2.5 3.2	
					Reddish Brown SILT, some yellow clay lenses, trace fine subrounded gravel, semi-dense, dry	
					3.5 2.2	
					Red clayey SILT, semi-dense, moist	
5.0	GB S03					
					5.0 0.7	
					Same as above, moist	Hand-auger and vac down to 5' bgs
7.5	GB S05					
					7.0 ▼ -1.3	
					Gray Red native SILT, little sand, little native roots, dense, wet	
					9.0 -3.3	
					COBBLES	
					9.5 -3.8	
					Red clayey SILT, little coarse rounded gravel, dense, wet	
10.0					10.0 -4.3	

Bottom of borehole at 10.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/20/15 **COMPLETED** 11/20/15 **GROUND ELEVATION** 5.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 3.00 ft / Elev 2.60 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 3.00 ft / Elev 2.60 ft
NOTES No PID available **▼ AFTER DRILLING** 3.00 ft / Elev 2.60 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brown sandy SILT, little fine rounded gravel, loose, moist	
					1.0 4.6	
					Black fine rounded FILL, little f-m black ash, little red clay, semi-dense, moist	
					2.0 3.6	
2.5	GB S02				Red clayey SILT, semi-dense, moist	
					3.0 ▼ 2.6	
					Gray SILT, trace red clays, semi-dense, wet	
					4.5 1.1	
	GB S03				Red silty CLAY, trace fine angular gravel, semi-dense, wet	
5.0					5.0 0.6	
					Same as above	
					6.0 -0.4	
	GB S04				Gray Black SILT, some fibers and roots, dense, wet	
					6.5 -0.9	
	GB S05				Gray native SILT, little yellow sand lenses, dense, wet	
7.5					8.5 -2.9	
					Red silty CLAY, little yellow sand lenses, trace coarse angular gravel, dense, wet	
10.0					10.0 -4.4	

Hand-auger and vac down to 5' bgs

Bottom of borehole at 10.0 feet.

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\DRIFT BORING LOGS REV01.GPJ



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BORING NUMBER SDL_36

CLIENT PPG Industries, Inc.
PROJECT NUMBER 151134
DATE STARTED 11/20/15 **COMPLETED** 11/20/15
DRILLING CONTRACTOR EPI
DRILLING METHOD Track mounted Geoprobe
LOGGED BY K. Treacy **CHECKED BY** J. Alexander
NOTES No PID available

PROJECT NAME PPG 174
PROJECT LOCATION Dennis Collins Park, Bayonne, NJ
GROUND ELEVATION 5.5 ft **HOLE SIZE** 3 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					Light brown sandy SILT, little fine rounded gravel, coarse, dry	0-1' BGS 1 nodule observed
				1.0	Black fine rounded FILL, little red clays, semi-dense, moist	
				2.0	Red clayey SILT, semi-dense, moist	
2.5				3.0		

Bottom of borehole at 3.0 feet.

Refusal at 3' bgs (hand auger broken)



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/23/15 **COMPLETED** 11/23/15 **GROUND ELEVATION** 5.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.40 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.3					ASPHALT	
2.5	GB S01				Brown Sandy SILT, trace fine subangular gravel, semi-dense, moist	
5.0	GB S02				Brown SILT, little greenish yellow silty clay lenses, trace fine subangular gravel, semi-dense, moist	
7.5	GB S03				Red sandy native CLAY, some coarse angular gravel, dense, wet	Hand-auger and vac down to 5' bgs
7.5	GB S04				Red sandy native CLAY, some coarse angular gravel, dense, wet	
7.5	GB S05				Red sandy native CLAY, some coarse angular gravel, dense, wet	
10.0						

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BORING NUMBER SDL_36a

CLIENT PPG Industries, Inc. PROJECT NAME PPG 174
 PROJECT NUMBER 151134 PROJECT LOCATION Dennis Collins Park, Bayonne, NJ

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10.0					Same as above	
12.5						
13.0					Red silty CLAY, trace fine angular gravel, dense, wet	
15.0						

Bottom of borehole at 15.0 feet.



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/23/15 **COMPLETED** 11/23/15 **GROUND ELEVATION** 5.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

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DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
				0.3	ASPHALT	
				0.3	Brown sandy SILT, trace fine subangular gravel, semi-dense, moist	
2.5				3.0		
				3.0		

Bottom of borehole at 3.0 feet.

Hand auger refusal at 3' bgs on three attempts



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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/24/15 **COMPLETED** 11/24/15 **GROUND ELEVATION** 5.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.40 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Light Brownish Yellow silty SAND, trace fine rounded gravel, semi dense, dry	
					1.0 4.6	
					Dark Brownish Black Fill, some sandy silt, loose, dry	
					1.5 4.1	
					Red sandy SILT, little fine angular gravel, little f sand lenses, semi dense, moist	
2.5	GB S02					
	GB S03					
5.0						
	GB S04				Dark Gray coarse Sand, some shells, semi dense, wet	
					6.0 -0.4	
	GB S05				Greenish Gray native sandy SILT, dense, wet	
7.5					7.0 ▼ -1.4	
					8.0 -2.4	
					Red native sandy SILT, some coarse angular gravel, dense, wet	
10.0					10.0 -4.4	

Hand-auger and vac down to 5' bgs

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_38

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/23/15 **COMPLETED** 11/23/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 6.00 ft / Elev 0.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 6.00 ft / Elev 0.00 ft
NOTES No PID available **▼ AFTER DRILLING** 6.00 ft / Elev 0.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.3					ASPHALT	
0.3	GB S01				Brown SILT, little sand, trace fine subangular gravel, semi-dense, moist	
2.5	GB S02					
3.0					Brown sandy SILT, semi-dense, moist	
5.0	GB S03					
5.0					Gray Green sandy SILT, semi-dense, moist	
6.0	GB S04					
6.0					Brown sandy native SILT, little coarse subrounded gravel, dense, wet	
7.5	GB S05					
10.0						

Hand-auger and vac down to 5' bgs

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_39

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/24/15 **COMPLETED** 11/24/15 **GROUND ELEVATION** 6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -1.00 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -1.00 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -1.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
0.3					ASHPHALT	
0.3	GB S01				Brown sandy SILT, trace fine subangular gravel, semi-dense, moist	
2.0						
2.5	GB S02				Brownish Red sandy CLAY, little silt, semi-dense, moist	
5.0	GB S03				Same as above	Hand-auger and vac down to 5' bgs
6.0						
6.0					Gray m-c SAND, semi-dense, moist	
7.0	GB S04					
7.5	GB S05				Red f-m native SAND, some silt, some fine angular gravel, dense, wet	
10.0						

Bottom of borehole at 10.0 feet.



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BORING NUMBER SDL_40

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/24/15 **COMPLETED** 11/24/15 **GROUND ELEVATION** 6.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
					Light Brown fine SAND, little silt, loose, dry	0-1' BGS ~3% COPR nodules observed
					Red silty CLAY, trace fine rounded gravel, semi-dense, moist	
2.5						
5.0					Bottom of borehole at 5.0 feet.	Refusal @ 5' BGS after 3 attempts

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CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/24/15 **COMPLETED** 11/24/15 **GROUND ELEVATION** 6.6 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev -0.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev -0.40 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev -0.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Red sandy CLAY, little yellow sand lenses, semi-dense, moist	
2.5	GB S02					
					3.0 3.6	
					Red Gray sandy SILT, little yellow sand lenses, semi dense, moist	
5.0	GB S03					
					5.0 1.6	
					Red clayey SILT, trace fine rounded gravel, dense, moist	Hand-auger and vac down to 5' bgs
					7.0 ▼ -0.4	
					Gray coarse SAND, semi-dense, wet	
7.5	GB S04					
					8.0 -1.4	
					Red sandy native SILT, some yellow sand mottling, little fine subrounded gravel, dense, wet	
	GB S05					
					9.5 -2.9	
					Quartzite COBBLES	
10.0						
					10.0 -3.4	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_41

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/24/15 **COMPLETED** 11/24/15 **GROUND ELEVATION** 6.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.50 ft / Elev -0.60 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▽ AT END OF DRILLING** 7.50 ft / Elev -0.60 ft
NOTES No PID available **▽ AFTER DRILLING** 7.50 ft / Elev -0.60 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					6.4	
1.0	GB S01				Yellow coarse SAND, semi-dense, dry	
1.5					CONCRETE	
2.0					Red Brown silty SAND, trace fine rounded gravel, semi-dense, moist	
2.5					4.4	
3.0	GB S02				Gray sandy SILT, semi-dense, moist	
4.0						
5.0	GB S03				5.0	
6.0					Same as above	Hand-auger and vac down to 5' bgs
7.0						
7.5					▽	
8.0	GB S04				8.0	
8.5	GB S05				Gray sandy native SILT, some fibers, semi-dense, wet	
9.0					-1.1	
9.5					Gray coarse SAND, semi-dense, wet	
10.0					-1.6	
					9.5	
					Red sandy SILT, some coarse angular gravel, semi-dense, wet	
					-2.6	
					10.0	
					-3.1	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_42

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/11/15 **COMPLETED** 12/11/15 **GROUND ELEVATION** 7.4 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 2.40 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 2.40 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 2.40 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					6.9	
	GB S01				Medium to Dark Brown silty SAND, little fill, little fine rounded gravel, loose, dry	
2.0					5.4	
2.5					Medium to Dark Brown sandy SILT, little clays, semi dense, moist	
2.5	GB S02				4.9	
					Reddish Brown sandy SILT, some clays, semi dense, moist	
5.0	GB S03				5.0 ▼ 2.4	Hand-auger and vac down to 5' bgs
					Reddish Brown sandy SILT, little fine rounded gravel, trace fibers, semi dense, wet	
7.5	GB S04					
					8.0 -0.6	
	GB S05				8.5 -1.1	
10.0					10.0 -2.6	
					Red silty clay, some coarse subangular gravel, some yellow silt lenses, dense, wet	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_43

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/25/15 **COMPLETED** 11/25/15 **GROUND ELEVATION** 7.4 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **AT TIME OF DRILLING** ---
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **AT END OF DRILLING** ---
NOTES No PID available **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					6.9	
0.8	GB S01				Yellow coarse SAND, semi-dense, dry	
1.3					CONCRETE	
1.3					6.2	
2.0					Brownish Red sandy SILT, trace fine rounded gravel, semi-dense, moist	
2.0					5.4	
2.5	GB S02				Brown Gray SILT, some sands, semi-dense, moist	
5.0	GB S03				5.0	
5.0					Brown Gray SILT, some sands, trace white coarse sand lenses, semi-dense, wet	Hand-auger and vac down to 5' bgs
7.5	GB S04					
9.0	GB S05				9.0	
9.0					Gray coarse SAND, semi-dense, wet	
9.5	GB S06				9.5	
9.5					Red clayey native SILT, little sand, little fine angular gravel, dense, wet	
10.0					10.0	
10.0					-2.6	

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_44

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/25/15 **COMPLETED** 11/25/15 **GROUND ELEVATION** 7.5 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 2.50 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 2.50 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 2.50 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5						
0.8	GB S01				Yellow coarse SAND, semi-dense, dry	
1.5					CONCRETE	
2.0					Brownish Red sandy SILT, trace fine rounded gravel, semi-dense, moist	
2.5	GB S02				Brown Gray SILT, some sand, semi-dense, moist	
5.0	GB S03				▼ Brown Gray SILT, some sand, trace white coarse sand lenses, semi-dense	Hand-auger and vac down to 5' bgs
7.5	GB S04					
8.0					Gray red coarse SAND, semi-dense, wet	
9.0	GB S05				Red clayey native SILT, little sand, yellow mottling, little coarse angular gravel, dense, wet	
10.0						

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_45

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 11/25/15 **COMPLETED** 11/25/15 **GROUND ELEVATION** 8.1 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 3.10 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 3.10 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 3.10 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					CONCRETE	
1.0	GB S01				Brownish Red sandy SILT, trace fine angular gravel, semi-dense, dry	
2.0					Brown Gray SILT, some sand, dense, moist	
2.5	GB S02					
5.0	GB S03				Brown Gray SILT, some red sands, trace white coarse sand lenses, semi-dense, wet	Hand-auger and vac down to 5' bgs
7.0	GB S04				Gray coarse SAND, little brown fibers, semi-dense, wet	
7.5					Gray coarse SAND, little brown fibers, semi-dense, wet	
8.0					Red clayey native SILT, little sand, little yellow mottling, little coarse angular gravel, dense, wet	
10.0	GB S05					

Bottom of borehole at 10.0 feet.

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BORING NUMBER SDL_46

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/7/15 **COMPLETED** 12/11/15 **GROUND ELEVATION** 8.2 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 3.20 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 3.20 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 3.20 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0					ASPHALT	
0.5					CONCRETE	
1.0	GB S01				Medium to Dark Brown silty SAND, little fill, little rounded fine gravel, loose, dry	
2.0					Same as above	
2.5					Light Brown silty SAND, little fine rounded gravel, semi-dense, moist	
4.0	GB S02				Light Brown sandy SILT, semi-dense, moist	
4.5					Red silty SAND, some coarse angular gravel, dense, wet	
5.0	GB S03				Red silty SAND, trace rounded coarse gravel, dense, wet	Hand-auger and vac down to 5' bgs
6.0					Red silty SAND, some coarse angular gravel, dense, wet	
8.5	GB S04				Red native silty SAND, trace clay, trace fine rounded gravel, dense, wet	
9.0	GB S05					
10.0						

Bottom of borehole at 10.0 feet.

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\ITREFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ



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BORING NUMBER SDL_47

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/7/15 **COMPLETED** 12/7/15 **GROUND ELEVATION** 10.1 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 5.00 ft / Elev 5.10 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 5.00 ft / Elev 5.10 ft
NOTES No PID available **▼ AFTER DRILLING** 5.00 ft / Elev 5.10 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Brown f-m SAND, trace rounded gravel, trace silt, dense, dry	
2.5	GB S02				Brown f-m SAND, trace silt, trace subrounded gravel, loose, dry	
					Reddish Brown fine SAND, little coarse angular gravel, loose, dry	
	GB S03				Schist Cobbles	
5.0					Red silty SAND, trace fine subrounded gravel, semi-dense	hand-auger and Vac down to 5' bgs
					Concrete	
	GB S04				Red silty SAND, trace fine subrounded gravel, semi-dense, wet	
7.5	GB S05					
	GB S06				Red clayey native silty SAND, some fibers, little fine rounded gravel, dense, wet	
10.0						

Bottom of borehole at 10.0 feet.

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\TRF\S01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ



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BORING NUMBER SDL_48

CLIENT PPG Industries, Inc. **PROJECT NAME** PPG 174
PROJECT NUMBER 151134 **PROJECT LOCATION** Dennis Collins Park, Bayonne, NJ
DATE STARTED 12/11/15 **COMPLETED** 12/11/15 **GROUND ELEVATION** 9.9 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR EPI **GROUND WATER LEVELS:**
DRILLING METHOD Track mounted Geoprobe **▽ AT TIME OF DRILLING** 7.00 ft / Elev 2.90 ft
LOGGED BY K. Treacy **CHECKED BY** J. Alexander **▼ AT END OF DRILLING** 7.00 ft / Elev 2.90 ft
NOTES No PID available **▼ AFTER DRILLING** 7.00 ft / Elev 2.90 ft

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 3/18/16 15:05 - \\ITREFS01\COMMON\MORAN\PPG - CHROME\SITE 174\FIELD DATA\LOGS\BORING LOGS\IDRAFT BORING LOGS REV01.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0						
	GB S01				Brown silty SAND, some fine rounded gravel, loose, dry	
2.5	GB S02				Brown fine SAND, little fine semi-angular gravel, loose, dry	
					2.0 7.9	
	GB S03				Brown f SAND, little fine semi-angular gravel, loose, dry	
5.0					Schist Cobbles	
					4.0 5.9	
					Brown silty SAND, trace fine angular gravel, semi-dense, moist	
					Concrete	
					4.5 5.4	
	GB S04				Yellowish Brown coarse angular GRAVEL, some fine brown sand, loose, moist	
					5.0 4.9	
7.5					Black FILL, little wood, little rounded fine gravel, loose, wet	
					5.5 4.4	
					6.0 3.9	
					7.0 2.9	
					7.0 1.9	

Hand-auger and vac down to 5' bgs

Bottom of borehole at 8.0 feet.

Refusal @ 8'