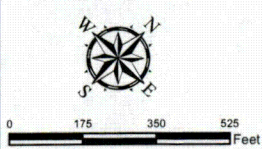


Source: Esri, DigitalGlobe, GeoEye, Earthstar, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, ICG, swisstopo, and the GIS User Community, Copyright © 2014 Esri, Delorme, FIARE, TomTom

- Legend**
- Soil boring location without landfill material found
  - Soil boring location with landfill material found
  - ▲ MSW Not Identified
  - ▲ MSW Identified
  - National Park Service Legislative Boundary
  - New York City Property Boundary
  - TCRA Investigation Boundary
  - Proposed Fence
  - Grid Cell



<b>GKP Landfill Delimitation Eastern Boundary</b>		
DESIGNED BY	Great Kills Park, Staten Island, NY	Figure #
DRAWN BY		
CHECKED BY		
Contract No: W92BU-13-C-0010		June 2014



Trimble uncorrected numbers

$$\begin{aligned} \checkmark 10.1 &= 40.5466132 \\ &- 74.1272531 \\ &\quad \bullet \end{aligned}$$

$$\checkmark 15.0 = 40.5459041 \\ - 74.1206196$$

$$\checkmark 6.0 = 40.5549453 \\ - 74.1252549$$

$$\checkmark 7.0 = 40.5536011 \\ - 74.1232103$$

$$\checkmark 7.1 = 40.5536426 \\ - 74.1229778$$

$$\checkmark 9.1 = 40.544509 \\ - 74.12873449$$

$$\checkmark 9.2 = 40.5445655 \\ - 74.1283302$$

$$\checkmark 10.0 = 40.5454895 \\ - 74.1260285$$

$$\checkmark 11.0 = 40.546795 \\ - 74.123499$$

$$\checkmark 11.1 = 40.547932 \\ - 74.124096$$

$$\cancel{12.0} = \cancel{40.} \\ \quad \quad \quad \cancel{74.}$$

$$\cancel{13.0}$$

$$\checkmark 13.0 = 40.543022 \\ - 74.126155$$

$$\checkmark 14.0 = 40.5436368 \\ - 74.1248630$$

$$\checkmark 16.0 = 40.54761242 \\ - 74.11802490$$

$$\checkmark 9.0 = 40.5447983 \\ - 74.12745048$$

$$\checkmark 12.1 = 40.54904188 \\ - 74.11946941$$

1800-704-9804  
68647656

59 wlex  
2002  
wed.  
106-7957 201  
wed.

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH 61KP BORING # 3KPM0024-01.0  
 PROJECT NAME \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn sly med SAND  Brick piece NO Trash  Brn clayey SILT								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-01.0

SAND + SILT

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # CRPMOD4-021  
 PROJECT NAME CRP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions.	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Reddish Brown clayey SILT								
2									
3	Reddish Brown SILT w/ some CLAY								
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 MRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP MOD4-02.0

Reddish Brn sly CLAY  
& Clayey SILT

**RECORD OF SOIL EXPLORATION**

CONTRACTED WITH \_\_\_\_\_ PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
 BORING # 104-03.0 JOB # \_\_\_\_\_

**SAMPLER**  
 Datum \_\_\_\_\_ Hesser Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_  
 Date Started \_\_\_\_\_ In. Pipe size \_\_\_\_\_ In. Boring Method \_\_\_\_\_  
 Foreman \_\_\_\_\_ Inspector \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRAPE DEPTH	DEPTH SCALE	Cond.	Blows/6"	No.	SAMPLE		BORING & SAMPLING NOTES
							Type	Rec.	
0.0	SURFACE								
	<i>Ben 5 1/4</i>								
	<i>ASH</i>								

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNOBTAINED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELDY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ FT.  
 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

*4*  
*3*  
*2*  
*1*



GKP TCRA

GKPMOD 4-03.0

7/13/13 1540

Ash + trash

RECORD OF SOIL EXPLORATION

CONTRACTED WITH

PROJECT NAME

LOCATION

BORING # 64P W 04-03.1

JOB #

SAMPLER

Datum \_\_\_\_\_ Lbs. Hammer Wt. \_\_\_\_\_ In. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ In. Pipe Size \_\_\_\_\_ Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, etc.	STRA. DEPTH	DEPTH SCALE	Cond.	Blows/6"	No.	Type	Rec.	BORING & SAMPLING NOTES
0.0	SURFACE								
1	Bm fine silt								Surf. 7342 cm Core = 4224 cm
2									40.55287959 -74.13217660
3									
4									

SAMPLE CONDITIONS  
 0-DISINTEGRATED  
 1-INTACT  
 U-UNDISTURBED  
 L-LOST

SAMPLE TYPE  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

GROUND WATER DEPTH  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

BORING METHOD  
 NSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GRP TCR A

GRP MOD 4 - 03.1

7/14/13  
1000

thin  
layer of Atk  
+ glass

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH OKP BORING # 62KPMOD4-03.2  
 PROJECT NAME OKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
0.0	SURFACE								
1	Brn clayey silt no trash								Surface 5636 COPM  Core 5422 COPM
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP MOD 4-03.2

Clayey SILT

7/14/13

1547

**RECORD OF SOIL EXPLORATION**

33

CONTRACTED WITH 6 K P PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
 BORING # 10 K P M D 4 - 0.3 JOB # \_\_\_\_\_

**SAMPLER**  
 Hammer Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_  
 Date Started \_\_\_\_\_ In. Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_  
 Foreman \_\_\_\_\_ Inspector \_\_\_\_\_ Date Completed \_\_\_\_\_

Elev.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity,	STRA. DEPTH	DEPTH SCALE	Cond.	Blows/cm	No.	Type	Rec.	SOILS & SAMPLING NOTES	
									SOILS & SAMPLING NOTES	SOILS & SAMPLING NOTES
0.0	Surface									
	topsoil									
	Brn Sandy									
	Clay									
	with 10% glass									

**SAMPLE CONDITIONS**  
 D-DISTURBED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELTY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MS. \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MS. \_\_\_\_\_ FT.

**BORING METHOD**  
 RSA-ROLLER STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-03.3

7/16/13

0845

Ash + glass @ 2' depth

# RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
 BORE # \_\_\_\_\_ JOB # \_\_\_\_\_  
 6/16/54

### SAMPLER

Datum \_\_\_\_\_ Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Rammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_  
 Date Started \_\_\_\_\_ In. Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_  
 Inspector \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	COND.	SAMPLER	NOTES
0.0	SURFACE				
1	2 ft 3 ft 4 ft 5 ft 6 ft 7 ft 8 ft 9 ft 10 ft 11 ft 12 ft 13 ft 14 ft 15 ft 16 ft 17 ft 18 ft 19 ft 20 ft 21 ft 22 ft 23 ft 24 ft 25 ft 26 ft 27 ft 28 ft 29 ft 30 ft	1	1	1	
2		2	2	2	
3		3	3	3	
4		4	4	4	

2 ft  
 3 ft  
 4 ft  
 5 ft  
 6 ft  
 7 ft  
 8 ft  
 9 ft  
 10 ft  
 11 ft  
 12 ft  
 13 ft  
 14 ft  
 15 ft  
 16 ft  
 17 ft  
 18 ft  
 19 ft  
 20 ft  
 21 ft  
 22 ft  
 23 ft  
 24 ft  
 25 ft  
 26 ft  
 27 ft  
 28 ft  
 29 ft  
 30 ft

STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30" COUNT MADE AT 6" INTERVALS  
 SOIL CONDITIONS: D-DISINTEGRATED, I-INTACT, U-UNDISTURBED, L-LOOSE  
 SAMPLER TYPE: OS-DRIVEN SPLIT SPOON, P1-PRESSED SHEATH TUBE, CA-CONTINUOUS FLIGHT AUGER, RC-ROCK CORE  
 AT COMPLETION: \_\_\_\_\_ FT., \_\_\_\_\_ INCHES  
 AFTER \_\_\_\_\_ MINS. \_\_\_\_\_ FT., \_\_\_\_\_ INCHES  
 AFTER 24 HRS. \_\_\_\_\_ FT., \_\_\_\_\_ INCHES  
 GROUND WATER DEPTH: \_\_\_\_\_ FT.  
 BORING METHOD: MSA-MILLED STEEL AUGERS, CA-CONTINUOUS FLIGHT AUGERS, OS-DRIVEN CASINGS, MO-MTD DRILLING



GP TCRA

GP MOD 4 - 03.4

7/16/13 0915

Sand + gravel - wet

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # GKP, MOD 4-63.5  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer, Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV. ft.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH ft.	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
10 9 8 7 6 5 4 3 2 1 0	<p style="font-size: 1.2em; margin: 0;">Topsoil</p> <hr style="border: 0.5px solid black; margin: 5px 0;"/> <p style="font-size: 1.2em; margin: 0;">Brn. sly sand with some coarse gravel</p>							<p style="font-size: 1.2em; margin: 0;">Adjacent to sidewalk and drop-off to creek</p>	

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 FT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 MRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKPMDD4-03.5

GKP TERA

7/16/13

0950

Brn Sly Sand  
w/ some coarse  
gravel.

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 688 MOD 4-04.0  
 PROJECT NAME 12K11 JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
1	SURFACE	0.0							
2	Brn Coarse SAND  No Trash Brick pieces at bottom								4983 CPM
3									
4									
5									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKPTURA

GKPMOD4-04.0

7/13/13

1330

Coarse SAND

Brick pieces at bottom

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GAPMODY. 5.0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1									
2	Brn Silt w/some clay								
3									
4	Brn Coarse Sand								

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # 6KPM004-05-1  
 PROJECT NAME \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Bra coarse Sand.								<del>4320</del> 4320 74-12697-3
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP MOD 4-05.1

7/13/13 1300

Coarse SAND

7 yR/hr 4320 CPM



### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6/1RMDY-05.7  
 PROJECT NAME GRP JOB # 6  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	3m sly unbl. possible coal as no glass or trash observed								Surface Core = 4751
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-NO-DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMWD4-05.2

7/16/13 1600

~~100~~ possible industrial  
fill - coal pieces  
no trash or glass  
observed

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6KPMODY-06.0  
 PROJECT NAME LOKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbc. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0						"	
1	Brn sly coarse Sand								
2	lgy sly clay								
3	Brn sly coarse SAND								
4									

**SAMPLE CONDITIONS**  
 0-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 RSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH BKP BORING # 6KPMOD4-06.1  
 PROJECT NAME \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Mt. \_\_\_\_\_ Lbs. \_\_\_\_\_ Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	3 in sly coarse sand w/ some light grey clay								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-ND DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

Course kind  
5 y/r/h 4032 crn  
7/13/13 1016  
GKP MOD 4 - 06.1  
GKP TCRA

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # \_\_\_\_\_  
 PROJECT NAME SKP JOB # SKP MOD 4 - 06:2  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA- DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Bm Coarse Sand								

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 OS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MID DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

6KP TCF A

6KP MOD 4- DL-2

7/16/13 1207

Bm Course STAND

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # \_\_\_\_\_  
 PROJECT NAME CRP JOB # 10K RMOD4-06.3  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE				BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	
	SURFACE	0.0						
	<p style="font-size: 1.2em; margin: 0;">Top soil</p> <hr style="border: 0.5px solid black; margin: 5px 0;"/> <p style="font-size: 1.5em; margin: 0;">Glass</p> <p style="font-size: 1.2em; margin: 0;">Bore silt + sand w/ glass &amp; metal</p>							

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-ROLLW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



GKPMODY-06.3

7/16/13     ~~1230~~

Glass + metal

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6KPMOD 4-06.7  
 PROJECT NAME 6KIP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
0	SURFACE	0.0							524L
1	Glass + Ash						Surface		54
2							Core		5555
3	Dk gray clay								
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-DL.4

7/16/13 1625

Asht Glass

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPM074-07.0  
 PROJECT NAME GAP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
SURFACE		0.0							40.55361059 14.12321864
1	Trash. glass pieces Black slag								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-07.0

7/12/13

1530

Trash - Glass

7 GR/hr

620600Pm

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPM004-7.1  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0						■	
1	<i>metal glass pieces</i>								
2									
3	<i>glass coal/glas</i>								
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 MRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD 4-7.1

7/12/13 1600

Trash - glass

metal

5 yk/hr 7337 cpm

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPMODY-7.2  
 PROJECT NAME GKP \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
	Topsoil								
1	Brn Coarse sand								
2	Trash + glass								
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 BSA-BOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPM04-08-0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Glass bottle neck plastic Trash								40.55164019 74.12088535 4712 cpm 5 yR/hr 4970 cpm 5 yR/hr
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

6KPMOD4-0.8.0

7/13/13 0800

4970 <sup>CAY</sup>  
~~4R/hr~~ 5 4R/hr

Trash

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKP MODY 0.8.1  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Rammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Rammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">3 in Coarse Sand</div>								<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 10px;">4460 rpm</div> <div style="font-size: 1.5em; font-weight: bold;">6 in/hr</div>
2									
3	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">Glass</div>								
4	<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">metal chunks</div>								

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKBMOD4-08.1

7/13/13 0830

Trash - metal & Glass

4460 <sup>CPM</sup>~~4R/hr~~ 6 yr/hr

**RECORD OF SOIL EXPLORATION**

CONTRACTED WITH NPS/USACE BORING # GKPMOD4-09.0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION GKP

**SAMPLER**

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman J. Konck.  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector J. Konck.  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method GP Date Completed 7/15/13

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
0.5	Brn sly sand + gravel								
1									
2	gravel layers								
3	<del>Brick</del> Brn sly Sand + gravel								
4	Brick Pieces + charcoal pieces								

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6KPMDD4-09.1  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							3 1/2 ft/hr with 3-5 v. ft/hr on core
1	Brn Coarse Sand								
2									
3									
4									

<b>SAMPLE CONDITIONS</b> D-DISINTEGRATED I-INTACT U-UNDISTURBED L-LOST	<b>SAMPLE TYPE</b> DS-DRIVEN SPLIT SPOON PT-PRESSED SHELBY TUBE CA-CONTINUOUS FLIGHT AUGER RC-ROCK CORE	<b>GROUND WATER DEPTH</b> AT COMPLETION _____ FT. AFTER _____ MRS. _____ FT. AFTER 2% MRS. _____ FT.	<b>BORING METHOD</b> RSA-ROLLW STEN AUGERS CFA-CONTINUOUS FLIGHT AUGERS OC-DRIVING CASING ND-HUD DRILLING
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GRPMODY-09.2  
 PROJECT NAME GRP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
0	SURFACE	0.0							1.5' recovery
1	glass and fill Black in color								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 RSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH NPS/USACE BORING # GKPMDDH-10.0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0						"	
1	Brn coarse SAND								
2									
3									
4									

<b>SAMPLE CONDITIONS</b> O-DISINTEGRATED I-INTACT U-UNDISTURBED L-LOST	<b>SAMPLE TYPE</b> OS-DRIVEN SPLIT SPOON PT-PRESSED SHELBY TUBE CA-CONTINUOUS FLIGHT AUGER RC-ROCK CORE	<b>GROUND WATER DEPTH</b> AT COMPLETION _____ FT. AFTER _____ MRS. _____ FT. AFTER 24 HRS. _____ FT.	<b>BORING METHOD</b> NSA-HOLLOW STEM AUGERS CFA-CONTINUOUS FLIGHT AUGERS DC-DRIVING CASTING ND-NDL DRILLING
------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPMODH-10.1  
 PROJECT NAME 62 KP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0						"	
1	<i>Ten Coarse Sand</i>								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH GKP BORING # GKP/MO/DY-11-0  
 PROJECT NAME \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Bon Coarse Sand <del>g</del>								
2									
3									
4		some gravel							

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6KPM0D4-11.1  
 PROJECT NAME 6KP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	<i>Brn coarse Sand &amp; gravel</i>								
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-ROLLW STEN AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6KPM04-12.0  
 PROJECT NAME 6K1P JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							Surface 2507
1	3.5m + BTK sly clay								Core 29.66 3 w/h/hr
2									
3									
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 MRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEEL AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKPMOD4-12.0

7/15/13 0900

Brn + BK Sly LLAY

### RECORD OF SOIL EXPLORATION

CONTRACTED WITH          BORING # 6KP MODY-101  
 PROJECT NAME 6KP JOB #           
 LOCATION         

#### SAMPLER

Datum          Hammer Wt.          Lbs. Hole Diameter          Foreman           
 Surf. Elev.          Ft. Hammer Drop          In. Rock Core Dia.          Inspector           
 Date Started          Pipe Size          In. Boring Method          Date Completed         

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions.	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							40,5490418 74,1194694
1									
2	glass Coal Ash								4207 CPM Surface
3									3883 CPM Sample

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION          FT.  
 AFTER          HRS.          FT.  
 AFTER 24 HRS.          FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

GKP TCRA

GKP NLOD 4-12.1

Trash - glass - coal

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPM2D4-13.0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES	
				Cond.	Blows/6"	No.	Type	Rec.		
	SURFACE	0.0						"		
1	<i>Tan Coarse Sand w/ some gravel</i>								<i>2.3' recovery</i>	
2										
3										
4										

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 RSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 ND-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1" WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS



### RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # GKPM054-14.0  
 PROJECT NAME GKP \_\_\_\_\_ JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

#### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
SURFACE		0.0							Boring moved ~ 40' inland due to storm sand at Chris H.'s. + Kathleen's request.
1	Tan coarse sand + gravel								
2									
3									
4									
5									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PY-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

**RECORD OF SOIL EXPLORATION**

CONTRACTED WITH USACE/NPS BORING # 6KPMOD4-15.0  
 PROJECT NAME LVP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

**SAMPLER**

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brown Coarse SAND								
2									
3									
4									

**SAMPLE CONDITIONS**  
 0-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ MRS. \_\_\_\_\_ FT.  
 AFTER 24 MRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 NSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

## RECORD OF SOIL EXPLORATION

CONTRACTED WITH \_\_\_\_\_ BORING # 6 KPM 074-16.0  
 PROJECT NAME GKP JOB # \_\_\_\_\_  
 LOCATION \_\_\_\_\_

### SAMPLER

Datum \_\_\_\_\_ Hammer Wt. \_\_\_\_\_ Lbs. Hole Diameter \_\_\_\_\_ Foreman \_\_\_\_\_  
 Surf. Elev. \_\_\_\_\_ Ft. Hammer Drop \_\_\_\_\_ In. Rock Core Dia. \_\_\_\_\_ Inspector \_\_\_\_\_  
 Date Started \_\_\_\_\_ Pipe Size \_\_\_\_\_ In. Boring Method \_\_\_\_\_ Date Completed \_\_\_\_\_

ELEV.	SOIL DESCRIPTION Color, Moisture, Density, Plasticity, Size, Proportions	STRA. DEPTH	DEPTH SCALE	SAMPLE					BORING & SAMPLING NOTES
				Cond.	Blows/6"	No.	Type	Rec.	
	SURFACE	0.0							
1	Brn 6"7 sly clay								40.5476124 -74.71802470
2									
3	Brn Coarse sly sand								
4									

**SAMPLE CONDITIONS**  
 D-DISINTEGRATED  
 I-INTACT  
 U-UNDISTURBED  
 L-LOST

**SAMPLE TYPE**  
 DS-DRIVEN SPLIT SPOON  
 PT-PRESSED SHELBY TUBE  
 CA-CONTINUOUS FLIGHT AUGER  
 RC-ROCK CORE

**GROUND WATER DEPTH**  
 AT COMPLETION \_\_\_\_\_ FT.  
 AFTER \_\_\_\_\_ HRS. \_\_\_\_\_ FT.  
 AFTER 24 HRS. \_\_\_\_\_ FT.

**BORING METHOD**  
 HSA-HOLLOW STEM AUGERS  
 CFA-CONTINUOUS FLIGHT AUGERS  
 DC-DRIVING CASING  
 MD-MUD DRILLING

\*STANDARD PENETRATION TEST DRIVING 2" OD SAMPLER 1' WITH 140# HAMMER FALLING 30"; COUNT MADE AT 6" INTERVALS

PROJECT: *Great Kills Park Removal Action* WELL / PROBEHOLE / BOREHOLE NO: *GKP-A23-01*  
 LOCATION: *Great Kills Park, Staten Island, NY*  
 PROJECT NUMBER: \_\_\_\_\_ PAGE *1* OF *1*  
 DRILLING: STARTED *6/26/14* COMPLETED: *6/26/14* NORTHING (ft): *40,55721808* EASTING (ft): *-74,1265021*  
 INSTALLATION: STARTED *N/A* COMPLETED: *N/A* LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_  
 DRILLING COMPANY: *TideWater* GROUND ELEV (ft): *-24.44* TOC ELEV (ft): \_\_\_\_\_  
 DRILLING EQUIPMENT: *Geoprobe 7822DT* INITIAL DTW (ft): \_\_\_\_\_ BOREHOLE DEPTH (ft): *8*  
 DRILLING METHOD: *Direct Push* STATIC DTW (ft): \_\_\_\_\_ WELL DEPTH (ft): *N/A*  
 SAMPLING EQUIPMENT: *Continuous Core* WELL CASING DIAMETER (in): *N/A* BOREHOLE DIAMETER (in): *2*  
 LOGGED BY: *D. Dressler* CHECKED BY: *C Gray*

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
0			Top soil, organic rich		0945	70% 7 feet	N/A	N/A	0	Backfilled w/ bentonite chips
0-5	SM		Silty sand, little fine gravel, brown (7.5% 4/4), fine to medium grained, med dense, dry to moist, no odor/stn, no landfill material, NATIVE						0-5	
5-20	ML		Sandy silt, brown (7.5% 4/4), very fine to fine grained, non plastic, firm, noddy to moist, no odor/stn, no landfill material, NATIVE						5-20	
20-25	SM		Same as 0.5-2ft Sample						20-25	
25-30	SM		Same as above, some fine to coarse gravel, mottled greenish gray (GLEY 1 5/56)						25-30	
30-8			TD = 8 feet logs						30-8	

PROJECT: <b>Great Kills Park Removal Action</b>	WELL / PROBEHOLE / BOREHOLE NO: <b>GKP-C23-02</b>
LOCATION: <b>Great Kills Park, Staten Island, NY</b>	PAGE <b>1</b> OF <b>1</b>
PROJECT NUMBER:	
DRILLING: STARTED <b>6/26/14</b> COMPLETED: <b>6/26/14</b>	NORTHING (ft):
INSTALLATION: STARTED <b>N/A</b> COMPLETED: <b>N/A</b>	LATITUDE: <b>40.5863343</b>
DRILLING COMPANY: <b>Tidewater</b>	GROUND ELEV (ft): <b>-27.985</b>
DRILLING EQUIPMENT: <b>Geoprobe 7822DT</b>	INITIAL DTW (ft):
DRILLING METHOD: <b>Direct Push</b>	STATIC DTW (ft):
SAMPLING EQUIPMENT: <b>Continuous Core</b>	WELL CASING DIAMETER (in): <b>N/A</b>
	LOGGED BY: <b>D. Dressler</b>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		0918	90%	N/A	N/A		
		ML	Sandy silt, reddish brown (5YR 4/4), very fine to fine grained, non plastic, firm, dry to moist, no odor/stn, no landfill material			7 feet				
		SM	NATIVE Silty sand, trace fine to coarse gravel, reddish brown (5YR 4/4), fine to coarse							
			Sandy, med dense, dry to moist, no odor/stn, no landfill material							
			NATIVE							
			wet @ 4 feet bgs, some fine to coarse gravel, mottled greenish gray (6.5Y 1 5/5G)							
			TD = 8 feet bgs							
										Backfill w/ bentonite chips

PROJECT: <i>Great Kills Park Removal Act</i>	WELL / PROBEHOLE / BOREHOLE NO: <i>GKP-E24-03</i>
LOCATION: <i>Great Kills Park, Staten Island, NY</i>	PAGE <i>1</i> OF <i>1</i>
DRILLING: STARTED <i>6/25/14</i> COMPLETED: <i>6/25/14</i>	NORTHING (ft): <i>40.555733944</i> EASTING (ft): <i>74.12430229</i>
INSTALLATION: STARTED <i>N/A</i> COMPLETED: <i>N/A</i>	LATITUDE: GROUND ELEV (ft): <i>-27.016</i> TOC ELEV (ft):
DRILLING COMPANY: <i>Tidewater</i>	INITIAL DTW (ft): BOREHOLE DEPTH (ft): <i>8</i>
DRILLING EQUIPMENT: <i>Geoprobe 7822DT</i>	STATIC DTW (ft): WELL DEPTH (ft): <i>N/A</i>
DRILLING METHOD: <i>Direct Push</i>	WELL CASING DIAMETER (in): <i>N/A</i> BOREHOLE DIAMETER (in): <i>2</i>
SAMPLING EQUIPMENT: <i>Continuous Core</i>	LOGGED BY: <i>P. Messler</i> CHECKED BY: <i>C. Gray</i>

Time & Depth (feet)	Graphic Log	USCS	Description	sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			<i>Top soil, organic rich</i>		<i>1148</i>	<i>75%</i>	<i>N/A</i>	<i>N/A</i>	<i>7</i>	<i>Back filled w/ bentonite chips</i>
	<i>SM</i>		<i>Silty sand, brown (7.5%R 4/4), fine grained, med dense, dry to moist, no odor / str, no landfill materials.</i>			<i>6 feet</i>			<i>8</i>	
<i>5</i>			<i>Native Material</i>						<i>9</i>	
	<i>SM</i>		<i>Same as above, little fine to coarse gravel</i>						<i>10</i>	
<i>10</i>			<i>fine to coarse grained, wet</i>						<i>11</i>	
			<i>Native Material</i>						<i>12</i>	
<i>15</i>									<i>13</i>	
									<i>14</i>	
<i>20</i>									<i>15</i>	
									<i>16</i>	
<i>25</i>									<i>17</i>	
									<i>18</i>	
<i>30</i>									<i>19</i>	
									<i>20</i>	
<i>35</i>									<i>21</i>	
									<i>22</i>	
									<i>23</i>	
									<i>24</i>	
									<i>25</i>	
									<i>26</i>	
									<i>27</i>	
									<i>28</i>	
									<i>29</i>	
									<i>30</i>	
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									<i>45</i>	
									<i>46</i>	
									<i>47</i>	
									<i>48</i>	
									<i>49</i>	
									<i>50</i>	

*TD = 8 feet logs*



PROJECT: *Great Kills Park Removal Action* WELL / PROBEHOLE / BOREHOLE NO: *GKP-624-04*  
 LOCATION: *Great Kills Park, Staten Island, NY* PAGE *1* OF *1*  
 PROJECT NUMBER: \_\_\_\_\_

DRILLING: STARTED *6/25/14* COMPLETED: *6/25/14* NORTHING (ft): *40.55614274* EASTING (ft): *74.1229781*  
 INSTALLATION: STARTED *N/A* COMPLETED: *N/A* LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_  
 DRILLING COMPANY: *Tidewater* GROUND ELEV (ft): *-30.061* TOC ELEV (ft): \_\_\_\_\_  
 DRILLING EQUIPMENT: *Geoprobe 7822DT* INITIAL DTW (ft): \_\_\_\_\_ BOREHOLE DEPTH (ft): *8*  
 DRILLING METHOD: *Direct Push* STATIC DTW (ft): \_\_\_\_\_ WELL DEPTH (ft): *N/A*  
 SAMPLING EQUIPMENT: *Continuous Core* WELL CASING DIAMETER (in): *N/A* BOREHOLE DIAMETER (in): *2*  
 LOGGED BY: *D. Dressler* CHECKED BY: *C Gray*

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, organic rich		0936	25% 2 feet	N/A	N/A		
	SM		Silty sand with gravel, fine to coarse gravel, dark brown (7.54R 3/4) fine to coarse grained sand, med dense, wet, no odor/stn, no landfill material found, native soil							Backfill w/ native material, borehole filled in
			TD = 8 feet bgs							

PROJECT: Great Kills Park Removal Action WELL / PROBEHOLE / BOREHOLE NO: GKP-J24-05  
 LOCATION: Great Kills Park, Staten Island, NY  
 PROJECT NUMBER: \_\_\_\_\_ PAGE 1 OF 1  
 DRILLING: STARTED 6/24/14 COMPLETED: 6/24/14 NORTHING (ft): 40,553,786.87 EASTING (ft): 74,121,205.08  
 INSTALLATION: STARTED N/A COMPLETED: N/A LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_  
 DRILLING COMPANY: Tidewater GROUND ELEV (ft): -27.983 TOC ELEV (ft): \_\_\_\_\_  
 DRILLING EQUIPMENT: Geoprobe 7822DT INITIAL DTW (ft): \_\_\_\_\_ BOREHOLE DEPTH (ft): \_\_\_\_\_  
 DRILLING METHOD: Direct Push STATIC DTW (ft): \_\_\_\_\_ WELL DEPTH (ft): N/A  
 SAMPLING EQUIPMENT: Continuous Core WELL CASING DIAMETER (in): N/A BOREHOLE DIAMETER (in): 2  
 LOGGED BY: D. Dressler CHECKED BY: C. Gray

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top soil, organic rich		1634	25% 1 foot	N/A	N/A		
		SM	Silty sand, high % of silt, dark yellowish brown (10YR 4/3) mottling, almost all black (10YR 2/1), fine to medium grained, med dense, wet, no odor / black strn (lots of organics, landfill material present (amber and clear glass, brick) throughout core, only 1 foot recovered,							
5										
10										
15										
20			FILL MATERIAL							
25										
30										
35										
			TD = 4 feet bgs							
										Backfilled w/ bentonite chips









PROJECT: <b>Great Kills Park Removal Action</b>	WELL / PROBEHOLE / BOREHOLE NO: <b>GKP-Q23-09</b>
LOCATION: <b>Great Kills Park, Staten Island, NY</b>	PAGE <b>1</b> OF <b>1</b>
PROJECT NUMBER:	
DRILLING: STARTED <b>6/24/14</b> COMPLETED: <b>6/24/14</b>	NORTHING (ft): <b>40,550,453.55</b> EASTING (ft): <b>-77,118,509.82</b>
INSTALLATION: STARTED <b>N/A</b> COMPLETED: <b>N/A</b>	LATITUDE:
DRILLING COMPANY: <b>Tidewater</b>	GROUND ELEV (ft): <b>-28.073</b> TOC ELEV (ft):
DRILLING EQUIPMENT: <b>Geoprobe 7822DT</b>	INITIAL DTW (ft):
DRILLING METHOD: <b>Direct Push</b>	STATIC DTW (ft):
SAMPLING EQUIPMENT: <b>Continuous Core</b>	WELL CASING DIAMETER (in): <b>N/A</b> BOREHOLE DIAMETER (in): <b>2</b>
	LOGGED BY: <b>D. Dressler</b> CHECKED BY: <b>C. Gray</b>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			TOP Soil, organic rich		1036	50%	N/A	N/A		
		SM	Silty sand with fine to coarse gravel (asphalt material), dark yellowish brown (10YR 4/3), fine to medium grained, med dense, dry to moist, no odor/stn, landfill material found in last foot of material (glass, plastic knob)			2 feet				
			Fill Material:							
			TD = 4 feet bgs							
										Backfill w/ bentonite chips



PROJECT: <i>Great Kills Park Removal Action</i>	WELL / PROBEHOLE / BOREHOLE NO: <i>GKP-624-11</i>
LOCATION: <i>Great Kills Park, Staten Island, NY</i>	PAGE <i>1</i> OF <i>1</i>
PROJECT NUMBER:	
DRILLING: STARTED <i>6/25/14</i> COMPLETED: <i>6/25/14</i>	NORTHING (ft): <i>46,539,799.24</i> EASTING (ft): <i>74,123,142.75</i>
INSTALLATION: STARTED <i>N/A</i> COMPLETED: <i>N/A</i>	LATITUDE:
DRILLING COMPANY: <i>Tidewater</i>	GROUND ELEV (ft):
DRILLING EQUIPMENT: <i>Geoprobe 782DT</i>	INITIAL DTW (ft):
DRILLING METHOD: <i>Direct Push</i>	STATIC DTW (ft):
SAMPLING EQUIPMENT: <i>Continuous Core</i>	WELL CASING DIAMETER (in): <i>N/A</i> BOREHOLE DIAMETER (in): <i>2</i>
	LOGGED BY: <i>D. Dressler</i> CHECKED BY: <i>C. Gray</i>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
		SM	Top Soil, organic rich,		1019	35%	N/A	N/A		Backfilled w/ bentonite chips
		SM	Silty Sand, some fine to coarse gravel, very dark brown (10YR 2/2),			3 feet				
5		CL	fine to medium grained, dry, med dense, no odor/stn, found							
		SM	little landfill material (glass, brick). Fill Material							
10			Silty sand, little fine to coarse gravel, higher % of silt, black (10YR 2/1), fine to medium grained, med dense, moist to wet, <del>no</del> odor (organic staining), HC landfill material found (glass, brick) Fill Material							
15			Clay, dark gray (10YR 4/1), med plasticity, soft, moist, no odor/stn, possible landfill liner							
20			Silty sand, dark brown (7.5YR 3/4), fine to coarse grained, med dense, moist to wet, no odor. stn, organic material present (believed native soil)							
25										
30										
35										

TD = 8 feet bgs

PROJECT: <b>Great Kills Park Removal Action</b>	WELL / PROBEHOLE / BOREHOLE NO: <b>GKP-F23-12</b>
LOCATION: <b>Great Kills Park, Staten Island, NY</b>	PAGE <b>1</b> OF <b>1</b>
PROJECT NUMBER:	
DRILLING: STARTED <b>6/25/14</b> COMPLETED: <b>6/25/14</b>	NORTHING (ft): <b>40.55522499</b> EASTING (ft): <b>74.12393202</b>
INSTALLATION: STARTED <b>N/A</b> COMPLETED: <b>N/A</b>	LATITUDE:
DRILLING COMPANY: <b>Tidewater</b>	GROUND ELEV (ft): <b>-29.238</b> TOC ELEV (ft):
DRILLING EQUIPMENT: <b>Geoprobe 7822DT</b>	INITIAL DTW (ft):
DRILLING METHOD: <b>Direct Push</b>	STATIC DTW (ft):
SAMPLING EQUIPMENT: <b>Continuous Core</b>	WELL CASING DIAMETER (in): <b>N/A</b> BOREHOLE DIAMETER (in): <b>2</b>
	LOGGED BY: <b>D. Dressler</b> CHECKED BY: <b>Army</b>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, organic rich, roots, 0-3 inches		1120	50% 4 feet	N/A	N/A		
5	SM		Silty Sand, some gravel, dark reddish brown (5YR 3/3), fine to coarse gravel, fine to coarse sand, med dense, moist, no odor/Fe stain, no landfill material Native Material ↑ % silt from 7-8 feet bgs						5	Backfill w/ bentonite chips
10									10	
15									15	
20									20	
25									25	
30									30	
35									35	
			TD = 8 feet bgs							

PROJECT: <i>Great Kills Park Removal Action</i>	WELL / PROBEHOLE / BOREHOLE NO: <i>GKP-F23-13</i>
LOCATION: <i>Great Kills Park, Staten Island, NY</i>	PAGE <i>1</i> OF <i>1</i>
PROJECT NUMBER:	
DRILLING: STARTED <i>6/25/14</i> COMPLETED: <i>6/25/14</i>	NORTHING (ft): <i>40.55502129</i> EASTING (ft): <i>-74.1240383</i>
INSTALLATION: STARTED <i>N/A</i> COMPLETED: <i>N/A</i>	LATITUDE:
DRILLING COMPANY: <i>Tidewater</i>	GROUND ELEV (ft): <i>28.589</i> TOC ELEV (ft):
DRILLING EQUIPMENT: <i>Geoprobe 7822DT</i>	INITIAL DTW (ft):
DRILLING METHOD: <i>Direct Push</i>	STATIC DTW (ft):
SAMPLING EQUIPMENT: <i>Continuous Core</i>	WELL CASING DIAMETER (in): <i>N/A</i> BOREHOLE DIAMETER (in): <i>2</i>
	LOGGED BY: <i>D. Dressler</i> CHECKED BY: <i>CLW</i>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
0		SM	Top Soil, organic rich		1249	35% 3 feet	N/A	N/A	0	backfilled w/ bentonite chips
5		SM	Silty sand, trace fine gravel, dark <del>yellowish</del> brown (7.5% 3/3), fine to coarse grained, med dense, dry to moist, no <del>the</del> odor/stn, no landfill material						5	
10			Same as above, brown (10% 4/3), fine grained. organic staining (black) from 1.0 to 1.5 feet bgs						10	
15									15	
20		SM	Same as 0.5 to 1 feet bgs, trace fine to coarse gravel, wet, mottled organic stn (black) landfill material found (glass, brick, porcelain) between 4 to 6 feet bgs						20	
25									25	
30									30	
35									35	
			TD = 8 feet bgs							



PROJECT: <i>Great Kills Park Removal Action</i>	WELL / PROBEHOLE / BOREHOLE NO: <i>GKP-D23-14</i>
LOCATION: <i>Great Kills Park, Staten Island, NY</i>	PAGE <i>1</i> OF <i>1</i>
PROJECT NUMBER:	
DRILLING: STARTED <i>6/25/14</i> COMPLETED: <i>6/25/14</i>	NORTHING (ft): <i>10,555,705.45</i> EASTING (ft): <i>-74,124,979.29</i>
INSTALLATION: STARTED <i>N/A</i> COMPLETED: <i>N/A</i>	LATITUDE: LONGITUDE:
DRILLING COMPANY: <i>Tidewater</i>	GROUND ELEV (ft): <i>-28.004</i> TOC ELEV (ft):
DRILLING EQUIPMENT: <i>Geoprobe 7822DT</i>	INITIAL DTW (ft): BOREHOLE DEPTH (ft):
DRILLING METHOD: <i>Direct Push</i>	STATIC DTW (ft): WELL DEPTH (ft): <i>N/A</i>
SAMPLING EQUIPMENT: <i>Continuous Cone</i>	WELL CASING DIAMETER (in): <i>N/A</i> BOREHOLE DIAMETER (in): <i>2</i>
	LOGGED BY: <i>D. Dressler</i> CHECKED BY: <i>Clay</i>

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			<p><i>Top Soil, organic rich</i></p> <p><i>Well graded</i></p> <p><i>Sand, some silt</i></p> <p><i>fine to coarse gravel,</i></p> <p><i>dark brown (7.54R</i></p> <p><i>3/3), fine to coarse</i></p> <p><i>grained, med dense,</i></p> <p><i>dry, no odor/stn,</i></p> <p><i>landfill material</i></p> <p><i>found (glass) at</i></p> <p><i>approx. 2 to 3 ft bgs</i></p> <p><i>TD = 4 feet</i></p>		<i>1507</i>	<i>25%</i> <i>1 foot</i>	<i>N/A</i>	<i>N/A</i>		<p><i>backfill</i></p> <p><i>w/ bentonite</i></p> <p><i>chips</i></p>

PROJECT: Great Kills Park Removal Action WELL / PROBEHOLE / BOREHOLE NO: GKP-G24-15  
 LOCATION: Great Kills Park, Staten Island, NY  
 PROJECT NUMBER: \_\_\_\_\_ PAGE 1 OF 1  
 DRILLING: STARTED 6/25/14 COMPLETED: 6/25/14 NORTHING (ft): 40,5548,1624 EASTING (ft): 74,12312629  
 INSTALLATION: STARTED N/A COMPLETED: N/A LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_  
 DRILLING COMPANY: Tidewater GROUND ELEV (ft): -29.622 TOC ELEV (ft): \_\_\_\_\_  
 DRILLING EQUIPMENT: Geoprobe 7822DT INITIAL DTW (ft): \_\_\_\_\_ BOREHOLE DEPTH (ft): 8  
 DRILLING METHOD: Direct Push STATIC DTW (ft): \_\_\_\_\_ WELL DEPTH (ft): N/A  
 SAMPLING EQUIPMENT: Continuous Core WELL CASING DIAMETER (in): N/A BOREHOLE DIAMETER (in): 2  
 LOGGED BY: D. Dressler CHECKED BY: Clayton

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			TOP Soil, organic rich		1547	15%	n/a	n/a		
		SM	Silty Sand, some fine to coarse gravel, dark brown (7.5YR 3/3) fine to coarse grained, med dense, wet, no odor / mottled black (organic) staining, no landfill material found			1 foot				
			NATIVE MATERIAL							
			TD = 8 feet bgs							
										Backfill w/ native material, Cave in

PROJECT: <b>Great Kills Park Removal Action</b>		WELL / PROBEHOLE / BOREHOLE NO: <b>GKP-B23-16</b>	
LOCATION: <b>Great Kills Park, Staten Island, NY</b>		PAGE <b>1</b> OF <b>1</b>	
PROJECT NUMBER:		DRILLING: STARTED <b>6/26/14</b> COMPLETED: <b>6/26/14</b>	
INSTALLATION: STARTED <b>N/A</b> COMPLETED: <b>N/A</b>		NORTHING (ft): <b>46,556,438.16</b> EASTING (ft): <b>-74,126,185.3</b>	
DRILLING COMPANY: <b>Tidewater</b>		LATITUDE:	
DRILLING EQUIPMENT: <b>Geoprobe 7822DT</b>		GROUND ELEV (ft): <b>-25,774</b> TOC ELEV (ft):	
DRILLING METHOD: <b>Direct Push</b>		INITIAL DTW (ft):	
SAMPLING EQUIPMENT: <b>Continuous Core</b>		STATIC DTW (ft):	
		WELL CASING DIAMETER (in): <b>N/A</b> BOREHOLE DEPTH (ft): <b>4</b>	
		LOGGED BY: <b>D. Dressler</b> BOREHOLE DIAMETER (in): <b>2</b>	
		CHECKED BY: <b>C. Gray</b>	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			<p>Top Soil, organic rich</p> <p>Silty sand, mottled dark brown (10YR 3/3) and black (10YR 2/1), fine to medium grained, med dense, dry, no odor / black (organic) landfill material found (glass, rubber, metal). <b>FILL MATERIAL</b></p> <p>TD = 4 feet bgs</p>		1120	50% 2 feet	N/A	N/A		<p>Backfill w/ bentonite chips</p>

PROJECT: <b>Great Kills Park Removal Action</b>		WELL / PROBEHOLE / BOREHOLE NO: <b>GKP-A22-17</b>	
LOCATION: <b>Great Kills Park, Staten Island, NY</b>		PAGE <b>1</b> OF <b>1</b>	
PROJECT NUMBER:		DRILLING: STARTED <b>6/26/14</b> COMPLETED: <b>6/26/14</b>	
INSTALLATION: STARTED <b>N/A</b> COMPLETED: <b>N/A</b>		NORTHING (ft): <b>40.65665541</b> EASTING (ft): <b>-74.12723199</b>	
DRILLING COMPANY: <b>Tidewater</b>		LATITUDE: GROUND ELEV (ft): <b>-27.631</b> LONGITUDE: <b></b>	
DRILLING EQUIPMENT: <b>Hand Auger</b>		INITIAL DTW (ft): <b></b> TOC ELEV (ft): <b></b>	
DRILLING METHOD: <b>Hand Auger</b>		STATIC DTW (ft): <b></b> BOREHOLE DEPTH (ft): <b>8</b>	
SAMPLING EQUIPMENT: <b>Hand Auger</b>		WELL CASING DIAMETER (in): <b>N/A</b> WELL DEPTH (ft): <b>N/A</b>	
		BOREHOLE DIAMETER (in): <b>4</b>	
		LOGGED BY: <b>D. Dressler</b> CHECKED BY: <b>Clay</b>	

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)	Borehole Backfill
			Top Soil, Organic Rich		1435	100	N/A	N/A		Backfilled w/ bentonite chips
		SM	Silty sand, little fine to coarse gravel, brown (10YR 4/3), fine to coarse grained, med dense, dry to moist, no odor/stn, no landfill material, APPEARS NATIVE			8ft				
		SM	Same as above, trace fine to coarse gravel, fine to medium grained, no landfill material, APPARENT FILL							
		CL	Sandy Clay, brown (10YR 4/3), fine to coarse grained, med plasticity, soft, moist to wet, no odor/mottled organic (black) staining, no landfill material							
		CI	Clay, gray, high plasticity, firm, no odor/stn, no landfill material							
			TD = 8 feet bgs							