



Tetra Tech EM Inc.

BORING/WELL ID:

B-101 / WP-101

CLIENT: U.S. EPA Region 3

SUBCONTRACTOR: Vironex, Inc.

DATE: 07/23/03

PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC

RIG: Geoprobe Model 5400

SHEET NO.: 1 OF 2

JOB NO.: SE3-03-03-012

DRILLER: J. Sorto

INSPECTOR: C. Sklaney

BEGIN/END TIME: 0900 / 1050

COORDINATES: 1313407.01 E / 471072.30 N

WELL CONSTRUCTION		DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING	8" STEEL FLUSH-MOUNT					
SURFACE SEAL	PORTLAND CEMENT (0-1')	0			CONCRETE, GRAVEL BED (0-8")	
					MEDIUM BROWN, POORLY GRADED DIRTY SAND WITH GRAVEL (8-14")	(SP)g
		2	48/48	NR	LIGHT ORANGE-BROWN, DRY, FAT CLAY (14-48"), 1" LAYERS OF LIGHT GRAY, DRY, SILTY SAND [SM] AT 40", 43", AND 46"	SW
BACKFILL	NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-10')	4			LIGHT ORANGE-GRAY, DRY, POORLY GRADED DIRTY SAND (48-132"), 1" LAYERS OF LIGHT GRAY, DRY, FAT CLAY [CH] AT 60", 70", AND 80"	CH
RISER	1.0" SCH. 40 PVC (0-12.5')	6	36/48	NR		
		8				
ANNULAR SEAL	GRANULAR BENTONITE (PREPACKED, 10-12.5')	10	36/48	NR		
		12				
SAND	20/40 GRADE OTTAWA SAND (PREPACKED (12.5-22.5')	14	38/48	NR	LIGHT BROWN AND LOCALLY LIGHT ORANGE-BROWN, MOIST, WELL- GRADED CLEAN SAND (132-186"), 0.2" LAYERS OF LIGHT GRAY, DRY, FAT CLAY [CH] APPROXIMATELY EVERY 12-15"	SW
		16			DARK RED-BROWN, MOIST, WELL-GRADED CLEAN SAND (186-194")	SW
SCREEN	1.0" SCH. 40 PVC, 0.011-INCH SLOT (12.5-22.5')	18	39/48	NR	LIGHT BROWN, WET, WELL-GRADED CLEAN SAND (194-260")	SW

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used (NR = not recorded).
4. Water table observed in boring approximately 17 feet below grade; boring terminated in fat clay layer.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded



Tetra Tech EM Inc.

BORING/WELL ID:
B-101 / WP-101

CLIENT: U.S. EPA Region 3 SUBCONTRACTOR: Vironex, Inc. DATE: 07/23/03
PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC RIG: Geoprobe Model 5400 SHEET NO.: 2 OF 2
JOB NO.: SE3-03-03-012 DRILLER: J. Sorto INSPECTOR: C. Sklaney
BEGIN/END TIME: 0900 / 1050 COORDINATES: 1313407.01 E / 471072.30 N

WELL CONSTRUCTION	DEPTH (FEET)	REC. (Rec/ 48 In.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
REFER TO PAGE 1	20				
	22	48/48	NR	LIGHT RED-BROWN, MOIST, FAT CLAY (260-288")	CH
	24			END OF BORING @ 288"	
	26				
	28				
	30				
	32				
	34				
	36				
	38				

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used (NR = not recorded).
4. Water table observed in boring approximately 17 feet below grade; boring terminated in fat clay layer.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded



Tetra Tech EM Inc.

BORING/WELL ID:

B-102 / WP-102

CLIENT: U.S. EPA Region 3

SUBCONTRACTOR: Vironex, Inc.

DATE: 08/22/03

PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC

RIG: Geoprobe Model 5400

SHEET NO.: 1 OF 2

JOB NO.: SE3-03-03-012

DRILLER: G. Burke

INSPECTOR: C. Sklaney

BEGIN/END TIME: 0915 / 1100

COORDINATES: 1313674.72 E / 470817.84 N

WELL CONSTRUCTION		DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING	8" STEEL FLUSH-MOUNT					
SURFACE SEAL	PORTLAND CEMENT (0-1')	0			ASPHALT, GRAVEL BED (0-18")	
		2	38/48	NR	LIGHT BROWN, DRY, POORLY GRADED, CLEAN SAND WITH GRAVEL (18-28")	(SW)g
					LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (28-38"); LOCALLY MOTTLED	SW
BACKFILL	NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-19.5')	4			LIGHT OLIVE-BROWN, DRY, FAT CLAY (38-42")	CH
					LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (42-58")	SW
RISER	1.0" SCH. 40 PVC (0-22')	6	42/48	NR	LIGHT ORANGE-BROWN, DRY, WELL-GRADED SILTY SAND (58-103"); LOCALLY MOTTLED	SM
		8				
ANNULAR SEAL	GRANULAR BENTONITE (PREPACKED, 19.5-22')	10	33/48	NR	LIGHT ORANGE-BROWN, DRY, SANDY FAT CLAY (103-110")	s(CH)
					LIGHT PINK-GRAY, DRY, WELL-GRADED SILTY SAND (110-120"); LOCALLY MOTTLED	SM
					LIGHT PINK-GRAY, DRY, SANDY FAT CLAY (120-130")	s(CH)
SAND	20/40 GRADE OTTAWA SAND (PREPACKED (22-32')	12			LIGHT GRAY AND LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (130-252"); LOCALLY MOTTLED	SW
		14	34/48	NR		
SCREEN	1.0" SCH. 40 PVC, 0.011-INCH SLOT (22-32')	16				
		18	38/48	NR		

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used (NR = not recorded).
4. Water table observed in boring approximately 26 feet below grade.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded



Tetra Tech EM Inc.

BORING/WELL ID:
B-102 / WP-102

CLIENT: U.S. EPA Region 3 SUBCONTRACTOR: Vironex, Inc. DATE: 08/22/03
PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC RIG: Geoprobe Model 5400 SHEET NO.: 2 OF 2
JOB NO.: SE3-03-03-012 DRILLER: G. Burke INSPECTOR: C. Sklaney
BEGIN/END TIME: 0915 / 1100 COORDINATES: 1313674.72 E / 470817.84 N

WELL CONSTRUCTION	DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
REFER TO PAGE 1	20				
	22	36/48	NR	LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND WITH GRAVEL (252-274"), 0.1" LAYERS OF LIGHT GRAY, DRY, FAT CLAY AT 262" AND 264"	(SW) _g
	24			LIGHT BROWN, MOIST, POORLY GRADED SILTY GRAVEL WITH SAND (274-288")	(GM) _s
	26	38/48	NR	LIGHT GRAY, MOIST, WELL-GRADED CLEAN SAND (288-306")	SW
	28			LIGHT ORANGE-BROWN, WET, WELL-GRADED DIRTY SAND WITH SILT (306-336")	SW-SM
	30			END OF BORING @ 336"	
	32				
	34				
	36				
	38				

NOTES:

- Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
- No soil samples were collected for laboratory analyses.
- Oxygen vapor analyzer not used (NR = not recorded).
- Water table observed in boring approximately 26 feet below grade.
- Well construction diagram not to scale.
- Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded

...\\0303012 CHILLUM PERC\FIELD LOGS\CP_WP102.DWG (DRAWN BY C.S.)



Tetra Tech EM Inc.

BORING/WELL ID:

B-103 / WP-103

CLIENT: U.S. EPA Region 3

SUBCONTRACTOR: Vironex, Inc.

DATE: 08/22/03

PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC

RIG: Geoprobe Model 5400

SHEET NO.: 1 OF 2

JOB NO.: SE3-03-03-012

DRILLER: G. Burke

INSPECTOR: C. Skloney

BEGIN/END TIME: 1145 / 1310

COORDINATES: 1313494.51 E / 470780.34 N

WELL CONSTRUCTION		DEPTH (Feet)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING	8" STEEL FLUSH-MOUNT					
SURFACE SEAL	PORTLAND CEMENT (0-1')	0			DARK GRAY-BROWN, DRY, POORLY GRADED SILTY SAND (0-3")	SM
					LIGHT OLIVE-BROWN, DRY, POORLY GRADED, CLEAN SAND WITH GRAVEL (3-7")	(SP)g
		2	42/48	NR	MEDIUM RED-BROWN, DRY, POORLY GRADED DIRTY SAND WITH SILTY CLAY AND GRAVEL (7-17")	(SP-SC)g
					LIGHT OLIVE-GRAY, DRY FAT CLAY (17-39")	CH
BACKFILL	NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-17.5')	4			LIGHT OLIVE-GRAY, DRY CLAYEY GRAVEL (39-48")	GC
					LIGHT OLIVE-GRAY, DRY, FAT CLAY (48-81"), 1" LAYERS OF MEDIUM RED-BROWN, POORLY GRADED CLEAN SAND WITH GRAVEL [(SW)g] AT 54", 64", AND 75"	CH
RISER	1.0" SCH. 40 PVC (0-20')	6	48/48	NR		
		8			LIGHT YELLOW-BROWN, LIGHT GRAY, AND LOCALLY LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (81-202"), 0.3" LAYER OF LIGHT GRAY, DRY, FAT CLAY [CH] AT 173"	SW
ANNULAR SEAL	GRANULAR BENTONITE (PREPACKED, 17.5-20')	10	38/48	NR		
		12				
SAND	20/40 GRADE OTTAWA SAND (PREPACKED (20-30')	14	36/48	NR		
		16				
SCREEN	1.0" SCH. 40 PVC, 0.011-INCH SLOT (20-30')	18	37/48	NR	LIGHT GRAY, MOIST, WELL-GRADED CLEAN SAND (202-255")	SW

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used (NR = not recorded).
4. Water table observed in boring approximately 22 feet below grade.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded

...\\0303012 CHILLUM PERC\FIELD LOGS\CP_WP103.DWG (DRAWN BY C.S.)



Tetra Tech EM Inc.

BORING/WELL ID:
B-103 / WP-103

CLIENT: U.S. EPA Region 3 SUBCONTRACTOR: Vironex, Inc. DATE: 08/22/03
PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC RIG: Geoprobe Model 5400 SHEET NO.: 2 OF 2
JOB NO.: SE3-03-03-012 DRILLER: G. Burke INSPECTOR: C. Skloney
BEGIN/END TIME: 1145 / 1310 COORDINATES: 1313494.51 E / 470780.34 N

WELL CONSTRUCTION	DEPTH (FEET)	REC. (Rec/ 48 In.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
REFER TO PAGE 1	20				
	22	38/48	NR	LIGHT YELLOW-BROWN, LIGHT GRAY, AND LIGHT ORANGE-BROWN, WET, WELL-GRADED CLEAN SAND (255-288")	SW
	24			END OF BORING @ 288"	
	26				
	28				
	30				
	32				
	34				
	36				
	38				

NOTES:

- Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
- No soil samples were collected for laboratory analyses.
- Oxygen vapor analyzer not used (NR = not recorded).
- Water table observed in boring approximately 22 feet below grade.
- Well construction diagram not to scale.
- Non-qualitative terms used to describe soil color.

NOTES:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded

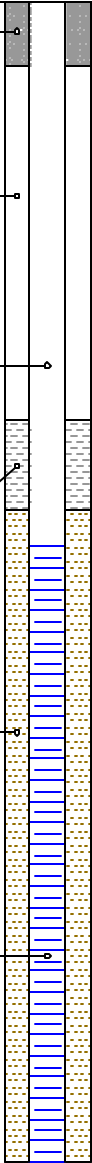
...\\0303012 CHILLUM PERC\FIELD LOGS\CP_WP103.DWG (DRAWN BY C.S.)



Tetra Tech EM Inc.

BORING/WELL ID:
B-104 / WP-104

CLIENT: U.S. EPA Region 3 SUBCONTRACTOR: Vironex, Inc. DATE: 08/22/03
PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC RIG: Geoprobe Model 5400 SHEET NO.: 1 OF 1
JOB NO.: SE3-03-03-012 DRILLER: G. Burke INSPECTOR: C. Sklaney
BEGIN/END TIME: 1415 / 1520 COORDINATES: 1312640.26 E / 471429.69 N

WELL CONSTRUCTION		DEPTH (FEET)	REC. (Rec/ 48 In.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING	8" STEEL FLUSH-MOUNT					
SURFACE SEAL PORTLAND CEMENT (0-1')		0	33/48	NR	DARK GRAY-BROWN, DRY, POORLY GRADED SILTY SAND (0-10")	SM
					MEDIUM GRAY-BROWN, DRY, SILTY LEAN CLAY (10-23")	CL-ML
		2			MEDIUM BROWN, DRY, WELL-GRADED CLEAN SAND (23-48")	SW
BACKFILL NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-8.5')		4	29/48	NR	MEDIUM RED-BROWN, DRY, SILTY SAND WITH GRAVEL (48-60")	(SM)g
					LIGHT BROWN, DRY, WELL-GRADED CLEAN SAND (60-96")	SW
RISER 1.0" SCH. 40 PVC (0-11')		6	32/48	NR		
ANNULAR SEAL GRANULAR BENTONITE (PREPACKED, 8.5-11')		8			LIGHT ORANGE-BROWN, MOIST, WELL-GRADED CLEAN SAND (120-132")	SW
SAND 20/40 GRADE OTTAWA SAND (PREPACKED 11-21')		10	39/48	NR	LIGHT ORANGE-BROWN, MOIST, WELL-GRADED CLEAN SAND WITH GRAVEL (132-152")	(SW)g
		12			LIGHT ORANGE-BROWN, WET, WELL-GRADED CLEAN GRAVEL WITH SAND (152-158")	(GW)s
SCREEN 1.0" SCH. 40 PVC, 0.011-INCH SLOT (11-21')		14			LIGHT ORANGE-BROWN, WET, WELL-GRADED CLEAN SAND (158-192")	SW
		16				
		18			END OF BORING @ 192"	

NOTES:

- Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
- No soil samples were collected for laboratory analyses.
- Oxygen vapor analyzer not used (NR = not recorded).
- Water table observed in boring approximately 14 feet below grade.
- Well construction diagram not to scale.
- Non-qualitative terms used to describe soil color.

DEFINITIONS:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded



CLIENT: U.S. EPA Region 3

SUBCONTRACTOR: Vironex, Inc.

DATE: 08/22/03

PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC

RIG: Geoprobe Model 5400

SHEET NO.: 1 OF 1

JOB NO.: SE3-03-03-012

DRILLER: G. Burke

INSPECTOR: C. Sklaney

BEGIN/END TIME: 1525 / 1640

COORDINATES: 1312864.00 E / 471630.68 N

WELL CONSTRUCTION		DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING	8" STEEL FLUSH-MOUNT					
SURFACE SEAL	PORTLAND CEMENT (0-1')	0			ASPHALT, GRAVEL BED (0-18")	
		2	40/48	NR	MEDIUM BROWN, DRY, POORLY GRADED SILTY SAND (18-38")	SM
BACKFILL	NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-15.5')	4			MEDIUM ORANGE-BROWN, DRY, POORLY GRADED CLEAN SAND WITH GRAVEL (38-50")	(SP)g
		6	41/48	NR	MEDIUM ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND WITH CLAY (50-58")	SW-SC
RISER	1.0" SCH. 40 PVC (0-18')	8			LIGHT ORANGE-BROWN, DRY, FAT CLAY (58-91")	CH
		10	35/48	NR	LIGHT RED-BROWN, DRY, WELL-GRADED CLEAN SAND (91-99")	SW
ANNULAR SEAL	GRANULAR BENTONITE (PREPACKED, 15.5-18')	12			LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (99-102")	SW
		14	48/48	NR	LIGHT GRAY, DRY, FAT CLAY (102-110")	CH
SAND	20/40 GRADE OTTAWA SAND (PREPACKED 18-28')	16			LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND, LOCALLY PRESENT 0.5-2" INTERVALS OF LIGHT GRAY, DRY, FAT CLAY (CH) EVERY 6" (WET AT 240") (110-240")	SW
SCREEN	1.0" SCH. 40 PVC, 0.011-INCH SLOT (18-28')	18	48/48	NR		
END OF BORING @ 240"						

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used.
4. Water table observed in boring approximately 20 feet below grade.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

DEFINITIONS:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded



Tetra Tech EM Inc.

BORING/WELL ID:

B-106 / WP-106

CLIENT: U.S. EPA Region 3

SUBCONTRACTOR: Vironex, Inc.

DATE: 08/22/03

PROJECT: Chillum PERC, Hyattsville, MD/Wash., DC

RIG: Geoprobe Model 5400

SHEET NO.: 1 OF 1

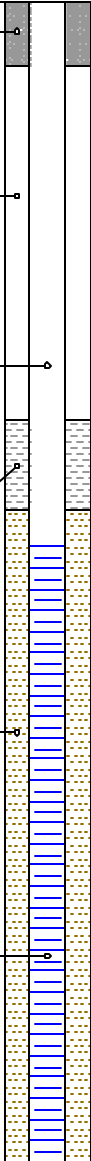
JOB NO.: SE3-03-03-012

DRILLER: G. Burke

INSPECTOR: C. Skloney

BEGIN/END TIME: 1711 / 1805

COORDINATES: 1313027.92 E / 471431.73 N

WELL CONSTRUCTION		DEPTH (FEET)	REC. (Rec/ 48 in.)	PID HS	TEXTURAL DESCRIPTION	USCS GROUP SYMBOL
PROTECTIVE CASING 8" STEEL FLUSH-MOUNT						
SURFACE SEAL PORTLAND CEMENT (0-1')		0	39/48	NR	DARK GRAY-BROWN, DRY, POORLY GRADED SILTY SAND (0-6")	SM
					DARK BROWN, DRY, POORLY GRADED GRAVELLY DIRTY SAND WITH SILT (6-15")	g(SP-SM)
-2		LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (15-48"), 0.2" LAYERS OF LIGHT GRAY, DRY, FAT CLAY (CH) AT 28" AND 35"			SW	
BACKFILL NATIVE (COLLAPSE) AND 20/40 GRADE OTTAWA SAND (1-11.5')		-4	32/48	NR	MEDIUM ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (48-116")	SW
RISER 1.0" SCH. 40 PVC (0-14')		-6				
ANNULAR SEAL GRANULAR BENTONITE (PREPACKED, 11.5-14')		-8				
SAND 20/40 GRADE OTTAWA SAND (PREPACKED 14-24')		-10	34/48	NR	LIGHT GRAY, DRY, POORLY GRADED, GRAVELLY FAT CLAY WITH SAND (116-128")	g(CH)s
					LIGHT ORANGE-BROWN, DRY, WELL-GRADED CLEAN SAND (128-137")	SW
		-12			LIGHT GRAY, DRY, POORLY GRADED, GRAVELLY FAT CLAY WITH SAND (137-160")	g(CH)s
SCREEN 1.0" SCH. 40 PVC, 0.011-INCH SLOT (14-24')		-14	25/48	NR	LIGHT GRAY, DRY, FAT CLAY (160-180")	CH
		-16			LIGHT GRAY, MOIST, POORLY GRADED DIRTY SAND WITH SILT (180-192")	SP-SM
		-18			LIGHT ORANGE-BROWN, MOIST, WELL-GRADED CLEAN SAND (192-208")	SW
		35/48	NR	LIGHT GRAY, WET, WELL-GRADED CLEAN SAND (208-229")	SW	
				LIGHT ORANGE-BROWN, WET, WELL-GRADED CLEAN SAND (229-240")	SW	
				END OF BORING @ 240"		

NOTES:

1. Used 4-foot long, stainless steel Macro-core™ tube with dedicated PETG liner in open-piston configuration.
2. No soil samples were collected for laboratory analyses.
3. Oxygen vapor analyzer not used.
4. Water table observed in boring approximately 17 feet below grade.
5. Well construction diagram not to scale.
6. Non-qualitative terms used to describe soil color.

DEFINITIONS:

Rec. = Recovery (of soil/material in a particular boring)
PID HS = Photoionization detector headspace
NR = Not recorded