



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-01

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Single Rod
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: J. Lavoie (MEDEP)
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 6/29/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 6/29/2021
 DRILLING DATE END: 6/30/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SM -	Very loos at surface to medium dense 1-2 ft. bgs (rock?), dark brown,	
1									SP	POORLY GRADED SAND WITH SILT with ORGANICS (0 - 0.75 ft. bgs),	
2									SP	transitioning to brown POORLY GRADED SAND WITH SILT, few gravel,	
3									SP	some bricks and/or linoleum (0.75 - 1.75 ft. bgs), transitioning to medium,	
4									SP	POORLY GRADED SAND.	
5									SP	Medium, light brown POORLY GRADED SAND, trace gravel (2-2.75 ft bgs)	
6									SP	little to some gravel (2.75 - 3.25 ft. bgs), transiting to dark SP, with trace gravel. SHAKE TEST: No. 6 oil present, mild odor.	
7									SP	Fine, very dark gray (stained?) POORLY GRADED SAND, dense, brick and/or linoleum fragments, transiting to	
8									ML	very dark gray to black SILT WITH SAND, trace gravel	
9									ML	Stiff, dry, cohesive SILT WITH SAND, very dark brown, linoleum fragments, trace gravel, maybe some minor oil	+
10									ML	Same as above	
11									CH	Very stiff, greenish-gray FAT CLAY, Presumpscot Fm.	
12									ML	Transitions back to SILT and SILT WITH SAND, linoleum fragments.	+
13										End of boring.	
14											
15											
16											
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-02

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Single Rod
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: J. Lavoie (MEDEP)
 LANDSCAPE POSITION: Top of rip-rapped bank, west side of Sabattus River
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 6/29/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 6/29/2021
 DRILLING DATE END: 6/30/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2				■					SM - Loose, light brown SILTY SAND, trace gravel, some organics, transitioning to fine POORLY GRADED SAND (1.75 - 2.0 ft.)	+	
4				■					SP - Medium, light brown, POORLY GRADED SAND transitioning to very dark gray (staining?) (3.5 - 3.75 ft.) Shake Test: light sheen (3.5 - 3.75 ft.)	+	
6				■					ML - Very dark gray (staining?) SILT WITH SAND, trace gravel, linoleum fragments, plug of brown cohesive SILT (5.25 - 5.5 ft.)	+	
8				■					SM - Mix of dark gray, SILTY SAND and CLAYEY SAND, cohesive, trace gravel and linoleum fragments		
10				■					ML - Mix of very dark gray SILTY SAND and SILT WITH SAND, plug of dense, FAT CLAY (9 - 9.25 ft.), with linoleum fragments CH - Shake Test: positive for oil with odor, slightly moist at 9.5 ft.	+	
12				■					SM - Same as above, SATURATED SOILS (11.25 - 12.0 ft), visible No. 6 oil, moist	+	
14				■					OIL - Same as above, OIL SATURATED SOILS, particularly 13 - 14 ft.		
15				■					OIL - OIL SATURATED SOILS, pocket of No. 6 oil visible, SILT		
16				■					some FAT CLAY at 16 ft.		
18				■					OIL - POORLY GRADED GRAVEL, Fluvial Deposits, No. 6 Oil FREE PRODUCT in gravel (16.5 - 17.75 ft.) CH - FAT CLAY, Presumpscot Fm (17.75 - 18.0 ft.)		
20				■					GP - Mix of POORLY GRADED GRAVEL, POORLY GRADED SAND, Fluvial Deposits, with some FAT CLAY, Presumpscot Fm. SATURATED SOILS still present to 21 ft. bgs. Refusal at 21 ft. bgs.	+	

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-03

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Single Rod
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: J. Lavoie (MEDEP)
 LANDSCAPE POSITION: Landfill area (AOC #1)
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 6/30/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 6/29/2021
 DRILLING DATE END: 6/30/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2											
4											
5											
6				■	■			SP	POORLY GRADED SAND, loose to med. dense, dark gray (stained), transitions to SILT, moist, then transitions back to POORLY GRADED		+
				■	■			ML	No. 6 OIL present., OIL odor		
				■	■			SP	Transitions back to SILT with OIL odor, some clay, linoleum, and gravel.		
				■	■			ML	Then approx. 6-inch lift of POORLY GRADED SAND, transitioning to approx. 4-inch lift of SILT with OIL, and alternating to 10ft. bgs.		+
8				■	■						
				■	■			ML	Same as above.		
10				■	■			SP			
				■	■			SP	POORLY GRADED SAND. Shake Test from sand, light sheen, no visible oil.		
12				■	■				Same as above.		
				■	■			SP			
				■	■			ML	SILT with OIL staining and odor.		
14				■	■				Refusal, water in sleeve.		
15											
16											
18											
20											

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-04

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Southern end of rip-rapped bank.
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2				■					ML CH SP	Top soil, sand w/ gravel, transitioning to SILT dense, FAT CLAY Uniform, medium-grained POORLY GRADED SAND	
4				■					SP	fine, gray POORLY GRADED SAND	
8				■					SP	LEAN CLAY, transitions back to fine POORLY GRADED SAND both are moist (water table).	
14				■					CL - SP	POORLY GRADED SAND WITH GRAVEL, NO. 6 OIL IN SHAKE TEST, but not saturated.	
15				■					CH	FAT CLAY, Presumpscot Fm. Shake test @ 19 ft. clean.	
18				■							
20				■							

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-05(R)

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Southern end of rip-rapped bank.
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2				■					ML	Top soil, transitioning to dense, very-dark gray SILT WITH SAND	+
4				■							
5				■							
6											
8				■					SP-SM	oil-stained SAND WITH SILT at 8 ft. bgs	+
10				■					SP	Fine, gray POORLY GRADED SAND.	
12											
14				■					SP	Fine, gray POORLY GRADED SAND, stained black by No. 6 oil, but not saturated.	+
15				■						*Hit refusal at 14 ft., moved over approximately 3 ft. and continued geoprobng (SB-05R).	+
16											
18				■					SP	Very fine, gray POORLY GRADED SAND	
20				■							



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-06

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Similar location as SB-01
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									ML SP SM	See boring log SB-01. Mostly SILT and/or POORLY GRADED SAND WITH SILT, with lots of linoleum pieces and pockets of POORLY GRADED SAND.	
2											
4											
5											
6											
8											
10											
12											
14									SP	Moist/wet, dark gray, fine POORLY GRADED SAND	
15											
16										Very dark, fine POORLY GRADED SAND w/ trace gravel.	
18										FAT CLAY, Presumpscot Fm. 17.5 ft. - 20 ft. bgs.	
20										**No oil-saturated soils were encountered.	

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-07(R)

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube

 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP- SM	very dark gray, SAND WITH SILT, some linoleum, pockets of fine gray POORLY GRADED SAND.	
2										*No oil-saturated soils encountered 0 - 15 ft. bgs.	
4										*Recovery not recorded.	
5											
6											
8											
10											
12											
14											
15											
16											
18									SP CH	SB-07R. Fine, dark gray POORLY GRADED SAND. **Shake test negative. Maybe very slight sheen. FAT CLAY, Presumpscot Fm.	
20											

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-08

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	Fine, brown <u>POORLY GRADED SAND</u>	
2											
4											
5											
6									SP - SM	<u>SAND WITH SILT and linoleum.</u>	
8											
10									SP - SM	<u>Same as above, trace gravel</u>	
12											
14											
15											
16										<u>Very dark gray POORLY GRADED SAND, trace gravel to 18 ft. bgs. Maybe some minor amounts of No. 6 oil.</u>	
18									CH	<u>FAT CLAY, Presumpscot Fm. Clean</u>	
20										<u>**OIL SATURATED SOILS NOT ENCOUNTERED</u>	

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-09

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Similar location as SB-02
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0											
10											
15											
20								OIL	OIL-SATURATED SOILS		
25								OIL	OIL-SATURATED SOILS		
30									Transitions to FAT CLAY, Presumpscot Fm at 23.5 ft. bgs. Fairly clean compared to soils above clay.		
35								CH	FAT CLAY, Presumpscot Fm. Clean		

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-10

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	POORLY GRADED SAND and	
1									SP - SM	POORLY GRADED SAND WITH SILT 0-5 ft. bgs.	
2											
3											
4											
5									OIL		
6									SP - SM	VISIBLE NO. 6 OIL AND ODOR. POORLY GRADED SAND WITH SILT	
7											
8											
9											
10											
11											
12											
13									OIL		
14									SP - SM	OIL-SATURATED SOILS, Hard to determine soil type due to oil saturation. (POORLY GRADED SAND WITH SILT?) REFUSAL @ 14 ft.	
15											
16											
17											
18											
19											
20											

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-11

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube

 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	Mix of fine, brown POORLY GRADED SAND and POORLY GRADED SAND WIT SILT, some linoleum	
2									SP - SM	Clean 0 - 10 ft.	
4											
5											
6											
8											
10											
12											
14										Dark black SILT, cohesive.	
15										Shake Test showed some oil, but minimal odor.	
16										REFUSAL @ 15 ft.	
18										*Oil-saturated soils not encountered.	
20											

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-12

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	Mix of fine to medium, brown and gray POORLY GRADED SAND and POORLY GRADED SAND WIT SILT, some linoleum	
2									SP - SM	Clean 0 - 10 ft.	
4											
5											
6											
8											
10											
12										Gray, POORLY GRADED SAND, transitioning to POORLY GRADED SAND WITH SILT, some linoleum.	
14					■					Moist @ 13 ft. *Shake Test positive for oil but no odor or visible oil in soils.	
15										REFUSAL @ 14 ft.	
16										*Oil-saturated soils not encountered.	
18											
20											

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**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-13

BORING ID

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2											
4											
5											
6											
8											
10				■						Some NO. 6 OIL on tip of sleeve 10 - 11 ft. bgs.	
11				■						REFUSAL @ 11 ft.	
12											
14											
15											
16											
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-14

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: _____
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2									SP Fine, brown POORLY GRADED SAND		
4								OIL	OIL-CONTAMINATED SOILS		
5											
6											
8								OIL	LINOLEUM w/ No. 6 OIL		
10								SP CL	gray, POORLY GRADED SAND 8.5 - 9 ft. bgs., transitioning to LEAN CLAY 9 - 9.25 ft. bgs., then OIL CONTAMINATED SOILS 9.25 - 10 ft.		
12											
14								SP OIL	gray, POORLY GRADED SAND OIL-CONTAMINATED SOILS 13.5 - 13.75 and 14.2 - 14.4 ft. bgs		
15									Flowing sands, no recovery 15 - 20 ft. bgs.		
16											
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-15

BORING ID

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Landfill area, between monitoring well and shed
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	Alternating layers of brown, fine POORLY GRADED SAND and gray (stained), POORLY GRADED SAND.	
2											
4											
5											
6											
8											
10					■				OIL	OIL-SATURATED SOILS	
12										REFUSAL @ 12 ft.	
14											
15											
16											
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-16

BORING ID

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Between landfill area and most contaminated geoprobe points
 REGIONAL GEOLOGY: SB-9 and SB-10

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
2											
4											
5											
6											
8											
10											
12											
14											
15											
16								ML OIL	SILT, very wet. OIL-SATURATED SOILS. HEAVY.		
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-17

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Between landfill area and SB-9
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP -	Brown POORLY GRADED SAND, transitioning to very dark gray POORLY GRADED SAND WITH SILT.	
2											
4											
5				■	■					Shake test - No. 6 oil present with odor.	
6											
8											
10										Dark gray POORLY GRADED SAND. No strong oil odor.	
12											
14											
15										Flowing sands, no recovery 15 - 20 ft. bgs.	
16											
18											
20											



**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOIL AND STRATIGRAPHIC BORING LOG**

SB-18

DRILLING METHOD: Geoprobe
 SAMPLING METHOD: Dual Tube
 RIG TYPE: _____
 CO./ GEOLOGIST: M. O'Connor (MEDEP)
 CO./ DRILLER: EPI
 LANDSCAPE POSITION: Approx. 10 ft. west from SB-8
 REGIONAL GEOLOGY: _____

AFTER BORING COMPLETION

DECOMMISSION WELL INSTALLATION
 SEALING MATERIAL: Boring Material WELL MATERIAL: _____
Example: PVC, Stainless, Steel
 PLACEMENT METHOD: By hand SCREEN DEPTH: _____
 DATE: 8/16/2021 DATE: _____
 WELL ID: _____

BORING ID

PROJECT NO: _____
 PROJECT: FARWELL MILL
 SITE: LISBON, ME
 GROUND SURFACE ELEV: _____
 COORDINATE TYPE: _____
 NORTH: _____ EAST: _____
 DRILLING DATE START: 8/16/2021
 DRILLING DATE END: 8/16/2021

DEPTH (FT BGS)	SAMPLING DATA						LITHOFACIES CODE	GRAPHIC LOG	USCS	SOIL DESCRIPTION AND DRILLING COMMENTS	STRAT
	BLOWS	N VALUE	ATTEMPT	RECOVERY	PETROLEUM	SAMPLE TYPE					
0									SP	brown, fine POORLY GRADED SAND	
2										0 - 5 ft. bgs.	
4											
5											
6									SP - SM	Very dark gray, POORLY GRADED SAND WITH SILT.	
8										5 - 10 ft. bgs.	
10									SP	Very dark gray POORLY GRADED SAND	
15										9 - 15 ft. bgs.	
20									SP OIL	Some No. 6 OIL CONTAMINATION, not super-saturated.	
25									CH	FAT CLAY, Presumpscot Fm.	
										20 - 25 ft. bgs.	

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