



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING LOG

LINCOLN  
BRF 0188(8)  
TH-1 BR-19

Boring No.: B-104  
Page No.: 1 of 1  
Pin No.: 10J066  
Checked By: CCB

Boring Crew: GARROW, WELLS  
Date Started: 12/22/11 Date Finished: 12/27/11  
VTSPG NAD83: N 583873.44 ft E 1511538.02 ft  
Station: 102+60.4 Offset: -5.50  
Ground Elevation: 999.53 ft

Casing Type: WB  
Sampler Type: SS  
I.D.: 4 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C SKID CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
		No Water to Depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.7 ft								
2.5		A-1-b, SaGr, brn, Moist, Rec. = 1.7 ft				40-30-18-13 (48)	6.0	49.8	36.8	13.4
5.0		A-1-a, Gr, gry, Wet, Rec. = 0.8 ft				14-15-12-3 (27)	9.4	77.7	17.5	4.8
5.0		A-1-a, SaGr, gry, Dry, Rec. = 1.0 ft				25-17-21-11 (38)	2.6	67.1	20.7	12.2
7.5		A-1-a, SaGr, gry, Moist, Rec. = 1.2 ft				3-4-7-6 (11)	11.8	63.8	26.0	10.2
10.0		Field Note: Stone in sampler. Appears to be Gravel, gry, Wet NXDC, Concrete, 9.2 ft - 11.1 ft				R@2.5"				
12.5		11.1 ft - 15.1 ft, Gray, Phyllitic Schist, with some large quartz veins. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 66	1 (45)	90 (83)	9					
15.0		15.1 ft - 16.1 ft, Gray, Phyllitic Schist, with some large quartz veins. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 62	2 (45)	80 (70)	20					
17.5		Hole stopped @ 16.1 ft								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 LINCOLN BRF 0188(8).GPJ VERMONT AOT.GDT 1/17/12



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BORING LOG

LINCOLN  
BRF 0188(8)  
TH-1 BR-19

Boring No.: B-105  
Page No.: 1 of 1  
Pin No.: 10J066  
Checked By: CCB

Boring Crew: GARROW, SALISBURY, THOMAS  
Date Started: 12/08/11 Date Finished: 12/08/11  
VTSPG NAD83: N 583976.61 ft E 1511519.00 ft  
Station: 103+61.6 Offset: 22.20  
Ground Elevation: 993.58 ft

Casing: WB  
Sampler: SS  
Type: WB SS  
I.D.: 4 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C SKID CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.5		A-2-4, GrSiSa with grass & roots, brn, Moist, Rec. = 0.5 ft				WH-WH-WH-2 (WH)	24.8	24.9	48.4	26.7
0.5 - 2.5		A-1-b, SiSaGr, brn, MTD, Rec. = 0.6 ft, Broken Rock was within sample.				7-12-11-10 (23)	7.8	43.7	30.8	25.5
2.5 - 5.0		Visual Classification, SiSa with Broken Rock, brn, Dry, Rec. = 0.2 ft, Insufficient sample for testing. Material similar as 6-8 ft.				9-7-9-5 (16)				
5.0 - 7.5		A-2-4, GrSiSa, brn, MTW, Rec. = 0.9 ft, Broken Rock was within sample.				7-12-12-17 (24)	11.0	26.0	46.9	27.1
7.5 - 9.4		Field Note: NXDC, Cobbles								
9.4 - 12.4		9.4 ft - 12.4 ft, Light gray, Phyllitic Schist, with some quartz veins. Quartz vein at 12.1 to 12.4 ft has slight orange staining along joint. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 71	1 (23)	100 (80)	7	Top of Bedrock @ 9.4 ft				
12.4 - 16.4		12.4 ft - 16.4 ft, Gray, Phyllitic Schist, with some quartz veins. Yellow/orange stained joints at 14.0 to 14.2 feet. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 71	2 (?)	93 (80)	4					
16.4 - 19.4		16.4 ft - 19.4 ft, Gray, Phyllitic Schist, with quartz veins. Orange stained joint at 16.4 feet. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 71	3 (?)	80 (80)	5					
19.4 - 20.0		Hole stopped @ 19.4 ft								

Notes:

1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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BORING LOG

LINCOLN  
BRF 0188(8)  
TH-1 BR-19

Boring No.: B-106  
Page No.: 1 of 1  
Pin No.: 10J066  
Checked By: CCB

Boring Crew: GARROW, WELLS  
Date Started: 12/21/11 Date Finished: 12/22/11  
VTSPG NAD83: N 583998.83 ft E 1511476.87 ft  
Station: 104+00 Offset: -6.00  
Ground Elevation: 998.07 ft

Casing Type: WB  
Sampler SS  
I.D.: 4 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C SKID CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
12/22/11	11.9	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 1.0 ft								
2.5		A-1-a, SaGr, brn, Wet, Rec. = 1.4 ft				12-10-9-7 (19)	8.5	61.4	29.7	8.9
		A-1-a, Gr, brn, Wet, Rec. = 1.0 ft				10-4-4-2 (8)	7.4	73.4	19.5	7.1
5.0		A-1-a, Gr, gry, Wet, Rec. = 0.2 ft, Washed Stone Fill.				10-7-3-3 (10)	2.3	99.2	0.7	0.1
7.5		A-1-a, SaGr, brn, Wet, Rec. = 1.0 ft, Trace of Wood shavings.				4-R@6.0"	16.4	53.4	35.7	10.9
		Field Note:, NXDC, Cleaned out barrel. Appears to be Sandy Gravel								
10.0		Field Note:, No Recovery. Appears to be Sandy Silt				3-4-5-5 (9)				
		A-2-4, SiGrSa, gry, Wet, Rec. = 1.0 ft, Broken Rock was within sample.				6-7-R@6.0"	15.8	25.2	52.6	22.2
12.5		12.5 ft - 15.5 ft, Gray, Phyllitic Schist, with some quartz veins. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 52	1 (45)	93 (12)	5					
15.0		15.5 ft - 20.5 ft, Gray, Phyllitic Schist, with some quartz veins. Moderately hard, Unweathered, Good rock, NXMDC, Yellow/orange stained joint at 17.95 ft. RMR = 69	2 (45)	100 (96)	8					
17.5					6					
20.0					5					
22.5		20.5 ft - 22.5 ft, Gray, Phyllitic Schist, with quartz veins. Moderately hard, Unweathered, Good rock, NXMDC, RMR = 69	3 (45)	95 (95)	5					
					5					
		Hole stopped @ 22.5 ft								

Notes:  
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BORING LOG 2 LINCOLN\_BRF\_0188(B).CPJ VERMONT AOT.GDT 1/17/12