



STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 CONSTRUCTION AND
 MATERIALS BUREAU
 CENTRAL LABORATORY

BORING LOG

Springfield
 BF 0134(45)
 VT 11 Culv. 60

Boring No.: **B-102A**

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Pin No.: 13d336

Checked By: END

Boring Crew: Emerson, Judkins, Gomes
 Date Started: 7/28/16 Date Finished: 7/28/16
 VTSPG NAD83: N 291172.28 ft E 1641334.86 ft
 Station: 364+61 Offset: 23.22
 Ground Elevation: 491.6 ft

Casing Sampler
 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 SKISUB>><<SUB>> = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
07/28/16	10.4	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0 - 0.45		Asphalt Pavement, 0.0 ft - 0.45 ft								
0.45 - 8.2		Field Note:, NXDC, Cleaned out casing								
8.2 - 9.1		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft				5-4-6-15 (10)	11.7	37.6	48.7	13.7
9.1 - 9.5		A-1-b, GrSa, brn, Moist, Rec. = 0.3 ft				5-7-10-10 (17)	12.7	37.5	45.7	16.8
9.5 - 10.4		Field Note:, NXDC, Cleaned out casing								
10.4 - 11.2		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft				9-18-R@5" (R)	12.6	29.4	57.2	13.4
11.2 - 13.0		Field Note:, NXDC, Cleaned out casing								
13.0 - 14.3		13.0 ft - 14.3 ft, White, Biotite-muscovite-quartz-plagioclase-hornblend GNEISS, Brown and orange staining along joints. Hard, Slightly weathered, NX	1 (70)	76 (32)	2					
14.3 - 18.0		14.3 ft - 18.0 ft, Gray to black, Biotite-muscovite-quartz-plagioclase SCHIST, Rust staining along joints. Moderately hard, Slightly weathered, Fair rock, RMR=43			3					
18.0 - 23.0		18.0 ft - 23.0 ft, Gray, Interlayered biotite-quartz-plagioclase SCHIST, and white, biotite-muscovite-quartz-plagioclase-garnet GNEISS. Slightly vuggy. Light brown, yellow, and orange staining along joints. Gneiss is hard.. Moderately hard, Slightly weathered, Fair rock, NX, RMR=49	2 (70)	100 (64)	3					
23.0 - 25.0		Hole stopped @ 23.0 ft			2					
25.0 - 26.0		Remarks: Hole collapsed at 8.2 feet.			3					
26.0 - 27.0					3					
27.0 - 28.0					4					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

BORING LOG - Z:SPRINGFIELD BF-0134(45).GPFJ VERMONT AOT.GDT 3/9/10