



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

BORING LOG

**KILLINGTON
BF 020-2(42)
US-4 BR #33**

Boring No.: **B-104**
Page No.: **1 of 2**
Pln No.: **13b260**
Checked By: **MRG**

Boring Crew: Gardner, GARROW, NIETO
Date Started: 11/03/15 Date Finished: 11/05/15
VTSPG NAD83: N 405959.45 ft E 1572933.11 ft
Station: 398+28 Offset: 10.40
Ground Elevation: 1160.0 ft

Type: WB Casing 4 in Sampler 1.5 in
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 C = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes
11/04/15	12.6	W.T. before drilling
11/05/15	12.8	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.62 ft					
		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken rock was within sample.	10-7-8-9 (15)	9.1	44.8	40.4	14.8
		A-1-b, SaGr, brn, Wet, Rec. = 1.2 ft	7-6-5-5 (11)	24.3	44.1	39.9	16.0
5		Field Note:, NXDC, Cleaned out casing.					
		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft	5-6-6-7 (12)	16.4	59.5	27.8	12.7
		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft		9.3	42.1	41.5	16.4
		A-1-b, GrSa, brn, Wet, Rec. = 0.7 ft	8-15-6-5 (21)	25.9	46.2	47.5	6.3
		Field Note:, NXDC, Cleaned out casing.					
10		A-2-4, SiGrSa, brn, MTW, Rec. = 1.1 ft	2-2-6-6 (8)	32.9	32.2	41.7	26.1
		A-1-b, GrSa, brn-gry, Moist, Rec. = 1.4 ft	10-15-11-9 (26)	15.8	35.9	47.3	16.8
		Field Note:, NXDC, Cleaned out casing., Cobbles					
		A-2-4, GrSa, brn, Moist, Rec. = 1.5 ft, Lab Note: Sample contained rust colored layers.	6-7-8-6 (15)	17.7	24.9	56.4	18.7
15		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Sample contained rust colored layers.	2-WH-2-3 (W.H.)	26.1	9.1	65.8	25.1
		A-2-4, Sa, brn, Moist, Rec. = 1.0 ft	1-2-2-4 (4)	27.8	2.7	78.9	18.4
20		A-3, Sa, brn, Moist, Rec. = 1.0 ft	2-3-4-4 (7)	25.4	9.4	80.7	9.9
		Field Note:, NXDC, Cleaned out casing.					
25		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample.	6-7-6-6 (13)	13.6	58.7	36.3	5.0
		Field Note:, NXDC, Cleaned out casing., Cobbles					
30		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample.	8-8-8-8 (16)	16.3	55.4	38.6	6.0
		Field Note:, NXDC, Cleaned out casing., Cobbles					
35		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample.	6-33-8-10 (41)	12.8	60.1	32.2	7.7
		Field Note:, NXDC, Cleaned out casing., Boulder					

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C 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.



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Groundwater Observations		
Date	Depth (ft)	Notes
11/04/15	12.6	W.T. before drilling
11/05/15	12.8	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/(N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample.	10-9-6-5 (15)	11.8	54.6	34.8	10.6
		Field Note:, NXDC, Cleaned out casing., Cobbles					
45		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	34-34-R@2.5" (R)	15.3	27.9	58.9	13.2
		Field Note:, NXDC, Cleaned out casing., Cobbles					
50		A-1-b, SiGrSa, brn, Moist, Rec. = 0.8 ft	20-R@3.5 (R)	15.6	27.1	51.3	21.6
		Field Note:, NXDC, Cleaned out casing., Cobbles					
55		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. Field Note:, Sleeved 3.0 inch casing. Sampling with AWJ rod.	R@5" (R)	10.2	55.8	30.4	13.8
60		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample.	4-R@6" (R)	11.0	59.3	28.2	12.5
		Field Note:, NXDC, Cleaned out casing.					
65		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft	23-R@3.5" (R)	12.0	56.6	28.7	14.7
		Field Note:, NXDC, Cleaned out casing.					
70		Field Note:, No Recovery	R@1" (R)				
		Hole stopped @ 70.1 ft					
75		Remarks: Hole Collapsed at 12.3 1.) Started mud drilling at 25.0 feet. 2.) Additional sample taken of cuttings from 61.0-65.0 feet. Sample had a moth ball like smell and had brown "oil like" spots. (Lab Note: Sample was not tested)					

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BORING LOG 2 KILLINGTON BF020-2(42)GPJ VERMONT AOT.I.GDT 11/12/15

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(Lab