



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

**BORING LOG**

**Sudbury  
STP SCRP(19)  
VT-30**

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 16d032

Checked By: **END**

Boring Crew: Gomes, Judkins, Emerson  
 Date Started: 9/07/16 Date Finished: 9/07/16  
 VTSPG NAD83: N 459231.13 ft E 1457076.60 ft  
 Station: 31+82.2 Offset: -9.46  
 Ground Elevation: 490.4 ft

Casing: 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 = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
09/07/16	3.4	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.88 ft					
5		A-1-b, GrSa, brn-blk, Moist, Rec. = 1.0 ft	6-9-10-10 (19)	10.7	41.2	44.3	14.5
		A-1-b, GrSa, brn-blk, Moist, Rec. = 1.1 ft, Lab Note: A lot of broken rock was within sample Field Note: NXDC, Cleaned out casing	8-22-11-5 (33)	10.7	42.3	44.8	12.9
		A-1-a, SaGr, blk, Moist, Rec. = 0.1 ft, Lab Note: Decomposing wood was within sample Field Note: NXDC, Cleaned out casing	5-3-2-1 (5)	47.0	60.6	29.5	9.9
		Field Note: No Recovery	2-2-2-2 (4)				
10		Field Note: Rollercone, Cleaned out casing Field Note: No Recovery	1-2-2-3 (4)				
		Field Note: No Recovery	1-2-2-1 (4)				
		A-2-4, Sa, gry, Moist, Rec. = 1.2 ft	1-1-1-WH (2)	24.7	7.0	80.2	12.8
15		A-2-4, SiSa, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic	1-WH-1-WH (1)	35.4	3.4	67.2	29.4
20		A-4, GrSaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Some clay was within sample. Sample tested non-plastic	3-4-11-5 (15)	27.8	20.2	21.4	58.4
25		A-4, SiSa, gry, Moist, Rec. = 0.3 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic	5-3-3-5 (6)	13.2	14.1	49.1	36.8
30		A-4, SaSi, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken rock was within sample. Sample tested non-plastic	6-4-3-9 (7)	11.1	11.1	24.0	64.9
		Hole stopped @ 32.0 ft					
35		Remarks: Hole collapsed at 17.5 feet.					

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.



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

**BORING LOG**

**Sudbury  
STP SCR(19)  
VT-30**

Boring No.: **B-102**

Page No.: 1 of 1

Pin No.: 16d032

Checked By: **END**

Boring Crew: Garrow, Emerson  
Date Started: 9/06/16 Date Finished: 9/06/16  
VTSPG NAD83: N 459247.17 ft E 1457088.89 ft  
Station: 31+92.1 Offset: 8.15  
Ground Elevation: 490.4 ft

Type: WB Casing SS Sampler  
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 = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
09/06/16	3.8	W.T. during drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 1.5		Asphalt Pavement, 0.0 ft - 1.5 ft							
1.5 - 2.3		A-2-4, GrSa, brn, Moist, Rec. = 1.0 ft	8-11-12-12 (23)	11.8	28.9	52.9	18.2		
2.3 - 3.1		A-1-b, SaGr, blk-brn, Moist, Rec. = 0.8 ft Field Note: NXDC, Cleaned out casing, Cobbles	13-12-8-15 (20)	13.7	44.1	38.0	17.9		
3.1 - 3.7		A-2-4, SiSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Decomposing wood was within sample	1-5-3-1 (8)	42.7	13.1	56.8	30.1		
3.7 - 4.9		A-2-4, Sa, gry, Moist, Rec. = 1.2 ft	1-2-2-1 (4)	28.1	11.9	70.4	17.7		
4.9 - 6.2		A-4, SaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic	1-1-1-1 (2)	23.5	7.1	41.5	51.4		
6.2 - 7.7		A-2-4, SiSa, gry, Moist, Rec. = 1.5 ft, Lab Note: A small amount of clay and decomposing wood was within sample. Sample tested non-plastic	1-1-WH-WH (1)	33.9	4.6	71.7	23.7		
7.7 - 9.2		A-4, SiSa, gry, Moist, Rec. = 1.5 ft	1-WH-WH-WH (WH)	38.9	2.2	60.0	37.8		
9.2 - 11.2									
11.2 - 13.2		A-4, SaSi, gry, Moist, Rec. = 2.0 ft, A very small amount of clay was within sample. Sample tested non-plastic	WR-WR-WH-WH (WH)	18.4	12.5	36.5	51.0		
13.2 - 13.9									
13.9 - 14.6		A-6, SiCl, gry, Moist, Rec. = 0.7 ft	WH-WH-WH-WH (WH)	47.2	2.7	9.0	88.3	31	14
14.6 - 15.3									
15.3 - 16.0									
16.0 - 16.7									
16.7 - 17.4									
17.4 - 18.1									
18.1 - 18.8									
18.8 - 19.5									
19.5 - 20.2									
20.2 - 20.9									
20.9 - 21.6									
21.6 - 22.3									
22.3 - 23.0									
23.0 - 23.7									
23.7 - 24.4									
24.4 - 25.1									
25.1 - 25.8									
25.8 - 26.5									
26.5 - 27.2									
27.2 - 27.9									
27.9 - 28.6									
28.6 - 29.3									
29.3 - 30.0									
30.0 - 30.7		A-1-a, SaGr, gry, Moist, Rec. = 0.7 ft, Lab Note: Sample consisted entirely of broken and weathered rock	13-20-27-37 (47)	6.8	56.3	30.6	13.1		
30.7 - 31.4									
31.4 - 32.1									
32.1 - 32.8									
32.8 - 33.5									
33.5 - 34.2									
34.2 - 34.9									
34.9 - 35.6									
35.6 - 36.3									
36.3 - 37.0									
37.0 - 37.7									
37.7 - 38.4									
38.4 - 39.1									
39.1 - 39.8									
39.8 - 40.5									
40.5 - 41.2									
41.2 - 41.9									
41.9 - 42.6									
42.6 - 43.3									
43.3 - 44.0									
44.0 - 44.7									
44.7 - 45.4									
45.4 - 46.1									
46.1 - 46.8									
46.8 - 47.5									
47.5 - 48.2									
48.2 - 48.9									
48.9 - 49.6									
49.6 - 50.3									
50.3 - 51.0									
51.0 - 51.7									
51.7 - 52.4									
52.4 - 53.1									
53.1 - 53.8									
53.8 - 54.5									
54.5 - 55.2									
55.2 - 55.9									
55.9 - 56.6									
56.6 - 57.3									
57.3 - 58.0									
58.0 - 58.7									
58.7 - 59.4									
59.4 - 60.1									
60.1 - 60.8									
60.8 - 61.5									
61.5 - 62.2									
62.2 - 62.9									
62.9 - 63.6									
63.6 - 64.3									
64.3 - 65.0									
65.0 - 65.7									
65.7 - 66.4									
66.4 - 67.1									
67.1 - 67.8									
67.8 - 68.5									
68.5 - 69.2									
69.2 - 69.9									
69.9 - 70.6									
70.6 - 71.3									
71.3 - 72.0									
72.0 - 72.7									
72.7 - 73.4									
73.4 - 74.1									
74.1 - 74.8									
74.8 - 75.5									
75.5 - 76.2									
76.2 - 76.9									
76.9 - 77.6									
77.6 - 78.3									
78.3 - 79.0									
79.0 - 79.7									
79.7 - 80.4									
80.4 - 81.1									
81.1 - 81.8									
81.8 - 82.5									
82.5 - 83.2									
83.2 - 83.9									
83.9 - 84.6									
84.6 - 85.3									
85.3 - 86.0									
86.0 - 86.7									
86.7 - 87.4									
87.4 - 88.1									
88.1 - 88.8									
88.8 - 89.5									
89.5 - 90.2									
90.2 - 90.9									
90.9 - 91.6									
91.6 - 92.3									
92.3 - 93.0									
93.0 - 93.7									
93.7 - 94.4									
94.4 - 95.1									
95.1 - 95.8									
95.8 - 96.5									
96.5 - 97.2									
97.2 - 97.9									
97.9 - 98.6									
98.6 - 99.3									
99.3 - 100.0									

Hole stopped @ 32.0 ft

Remarks:  
Hole collapsed at 8.4 feet.

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 2 SUDBURY STP SCR(19).GPJ VERMONT AOT.GDT 9/29/16