



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

BORING LOG

MILTON  
 IM CULV(50)  
 I-89 SB MM 99.85 SINK HOLE

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 14A006

Checked By: CEE

Boring Crew: DAIGNEAULT, HOOK, EWALD  
 Date Started: 1/17/14 Date Finished: 1/17/14  
 VTSPG NAD83: N 772499.28 ft E 1467963.57 ft  
 Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
 Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A.  
 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  $C_r = 1.33$

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note:, Asphalt Pavement, Depth was not measured.					
		Field Note:, Crushed stone, 2" - 3" minus material.					
2.5		Visual Description:, Broken Rock pieces (Crushed stone) with sand, gry, Moist, Rec. = 0.4 ft Stone in sampler. Insufficient sample for testing.	50	2.9			
		A-2-4, Sa, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	38-43-R@2.5" (R)	5.2	19.2	68.9	11.9
5.0		Field Note:, Augered to 8 feet. Appeared to be brown sand					
7.5		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft	12-11-14-17 (25)	6.4	12.3	65.4	22.3
10.0		Hole stopped @ 10.0 ft					
12.5							
15.0							
17.5							

BORING LOG 2 MILTON IM CULV(50).GPJ VERMONT AOT.GDT 3/6/14

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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MILTON  
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Boring No.: B-102  
 Page No.: 1 of 1  
 Pin No.: 14A006  
 Checked By: CEE

Boring Crew: DAIGNEAULT, HOOK, EWALD  
 Date Started: 1/17/14 Date Finished: 1/17/14  
 VTSPG NAD83: N 772516.22 ft E 1467988.08 ft  
 Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
 Ground Elevation: \_\_\_\_\_

Casing H.S.A. 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 C = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 2.0		Field Note:, Crushed stone to 2.0 feet					
2.5 - 10.0		Field Note:, Brown sand to 10.0 feet, Noticed material at 10 feet becoming silty.					
10.0 - 12.0		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	14-17-21-19 (38)	7.8	4.9	71.6	23.5
12.0 - 12.5		Hole stopped @ 12.0 ft					
12.5 - 15.0							
15.0 - 17.5							

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MILTON  
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Boring No.: B-201  
 Page No.: 1 of 1  
 Pin No.: 14A006  
 Checked By: CEE

Boring Crew: DAIGNEAULT, HOOK, NIETO  
 Date Started: 1/28/14 Date Finished: 1/28/14  
 VTSPG NAD83: N 772546.74 ft E 1467974.06 ft  
 Station: 99.85+61.5 Offset: -13.50  
 Ground Elevation: \_\_\_\_\_

Casing H.S.A. Sampler SS  
 I.D.: 2.75 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<sub>e</sub> = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.62		Asphalt Pavement, 0.0 ft - 0.62 ft					
2.5							
3.0 - 3.5		A-2-4, SiSa, brn, Moist, Rec. = 0.5 ft	R@6.0"	10.9	3.2	76.4	20.4
4.0 - 4.9		A-4, SiSa, brn, Moist, Rec. = 1.9 ft	21-21-18-22 (39)	6.8	1.7	62.4	35.9
6.0 - 6.9		A-2-4, SiSa, brn, Moist, Rec. = 1.9 ft	8-16-19-20 (35)	10.0	1.5	65.4	33.1
7.0 - 7.9		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft	7-14-14-10 (28)	10.8	2.4	67.1	30.5
9.0 - 10.0		A-4, SaSi, brn, Moist, Rec. = 0.5 ft		15.3	0.8	31.3	67.9
10.0 - 10.0		Hole stopped @ 10.0 ft					
12.5							
15.0							
17.5							

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

MILTON  
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Boring No.: B-202  
 Page No.: 1 of 1  
 Pin No.: 14A006  
 Checked By: CEE

Boring Crew: DAIGNEAULT, HOOK, NIETO  
 Date Started: 1/28/14 Date Finished: 1/28/14  
 VTSPG NAD83: N 772516.36 ft E 1467969.95 ft  
 Station: 99.85-27.9 Offset: -4.60  
 Ground Elevation: \_\_\_\_\_

Casing: H.S.A. Sampler: SS  
 I.D.: 2.75 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<sub>c</sub> = 1.33

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	6-12-16-21 (28)	10.3	1.7	48.5	49.8
10		A-2-4, SiSa, brn, Moist, Rec. = 1.8 ft	7-13-13-16 (26)	8.3	2.2	75.2	22.6
15		A-4, SiSa, brn, Moist, Rec. = 1.9 ft	10-17-19-20 (36)	15.8	0.3	55.3	44.4
20		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft	2-3-2-3 (5)	12.1	0.5	78.1	21.4
25		A-4, SiSa, brn, Moist, Rec. = 1.6 ft	2-2-2-2 (4)	16.8	0.5	59.9	39.6
Hole stopped @ 27.5 ft							
30	Remarks: Hole collapsed at 11.0 ft.						

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Boring No.: B-203  
 Page No.: 1 of 1  
 Pin No.: 14A006  
 Checked By: CEE

Boring Crew: DAIGNEAULT, HOOK, NIETO  
 Date Started: 1/28/14 Date Finished: 1/28/14  
 VTSPG NAD83: N 772509.61 ft E 1467982.78 ft  
 Station: 99.85+26.9 Offset: 7.60  
 Ground Elevation: \_\_\_\_\_

Casing Type: H.S.A. Sampler: SS  
 I.D.: 2.75 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<sub>s</sub> = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
0.0 - 0.88		Asphalt Pavement, 0.0 ft - 0.88 ft								
5										
10										
15										
20										
25										
28.5		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft	1-2-3-3 (5)	12.3	1.6	68.2	30.2			
30.5		A-4, Si, Lt/brn, Moist, Rec. = 0.5 ft	2-2-3-3 (5)	23.8		5.7	94.3	27	4	
31.0		A-4, Si, gry, Moist, Rec. = 1.6 ft		27.8		5.6	94.4	30	4	
Hole stopped @ 31.0 ft										
Remarks: Hole collapsed at 9.2 ft.										

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