



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

BORING LOG

Boring No.: B-108  
Page No.: 1 of 2  
Pin No.: 08J096  
Checked By: CAA

RUTLAND CITY  
BRF 3000(19)  
TH-10 BR-17

Boring Crew: PORTER, GARROW  
Date Started: 6/17/10 Date Finished: 6/21/10  
VTSPG NAD83: N 401988.35 ft E 1507401.58 ft  
Station: 10+15 Offset: 0.00  
Ground Elevation: 519.6 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 55 TRACK CE = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
06/18/10	9.7	Prior to drilling.
06/21/10	10.4	Prior to drilling.

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 %
5		A-2-4, GrSiSa, brn-white, Moist, Rec. = 1.4 ft, Broken Marble rock was within sample.				1-3-6-6 (9)	12.6	28.6	40.0	31.4
		Visual Classification, Broken Marble rock with silty sand, white, Moist, Rec. = 0.8 ft				3-7-5-5 (12)	5.4			
		Visual Classification, Broken Marble rock with silty sand, brn-white, Moist, Rec. = 0.7 ft				3-5-6-3 (11)	5.7			
		Visual Classification, Broken Marble rock with sandy silt, white, Moist, Rec. = 1.0 ft				3-5-6-4 (11)	6.6			
10		A-4, Si, brn, Moist, Rec. = 0.7 ft				3-2-1-1 (3)	35.4	1.3	18.4	80.3
		Visual Classification, SI with Broken rock, brn-white, Moist, Rec. = 0.4 ft				2-1-1-3 (2)	14.6			
15		A-2-4, SiSa, brn, MTW, Rec. = 1.4 ft, Lab Note: A rust color was noticeable in the sample.				4-1-1-1 (2)	31.0		71.0	29.0
		A-1-b, GrSa, brn, MTW, Rec. = 0.8 ft				1-1-2-3 (3)	16.6	41.4	50.5	8.1
		A-1-b, GrSa, brn, Wet, Rec. = 0.4 ft, Lab Note: A very rusty colored sample.				5-3-2-2 (5)	15.8	27.4	64.1	8.5
20		A-3, Sa, brn, Wet, Rec. = 1.4 ft				3-1-1-1 (2)	28.8		94.4	5.6
25		A-4, Si, gry, Wet, Rec. = 1.2 ft				4-3-3-3 (6)	27.5		4.9	95.1
30		Field Note: NXDC, Boulder								
		A-2-4, SiGrSa, gry, MTW, Rec. = 1.6 ft				11-20-28-30 (48)	13.1	30.3	45.4	24.3
		Field Note: NXDC, Gravel								
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.6 ft				7-5-5-5 (10)	12.0	28.0	44.6	27.4

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.

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40		Field Note: NXDC, Gravel								
		A-1-b, SiGrSa (HP), gry, MTW, Rec. = 0.6 ft, Broken rock was within sample.				10-60-70-6" (R)	15.2	37.7	39.7	22.6
45		Field Note: NXDC, Gravel								
		A-1-b, SiSaGr (HP), gry, MTW, Rec. = 0.3 ft, Insufficient sample for a true gradation.				50-R/2.5" (R)	7.6	49.7	30.0	20.3
50		Field Note: NXDC, (HP)								
		Field Note: No Recovery, Appears to be SaSi (HP)				R/4.5" (R)				
55		Field Note: NXDC, Cleaned out casing								
		51.5 ft - 53.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing.. Very hard, Fresh, Fair rock, NXDC				1 (?)	73 (0)	10		
60		53.0 ft - 57.0 ft, Same as Run #1. NXMDC				2 (?)	92 (62)	10		
		57.0 ft - 62.0 ft, Same as Run #1. NXMDC				3 (?)	100 (14)	8		
65		Hole stopped @ 62.0 ft								

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