



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

BORING LOG

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

Boring No.: B-105
Page No.: 1 of 2
Pin No.: 08J096
Checked By: CAA

Boring Crew: PORTER, GARROW
Date Started: 6/10/10 Date Finished: 6/15/10
VTSPG NAD83: N 402017.30 ft E 1507370.82 ft
Station: 9+73 Offset: -10.00
Ground Elevation: 519.0 ft

Casing Type: WB
Sampler Type: 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
06/11/10	8.4	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 %
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.5 ft, insufficient sample for a true gradation.				WH-2-2 (2)	25.3	24.9	40.5	34.6
		Visual Classification, Broken rock, Rec. = 0.3 ft, (Quartzite & Marble)				7-7-3-3 (10)				
5		A-2-4, GrSa, brn, Moist, Rec. = 0.8 ft, Broken rock (Marble) was within sample.				3-3-7-5 (10)	6.0	41.5	42.1	16.4
		A-1-b, SaGr, white, Moist, Rec. = 0.4 ft, Broken rock (Marble) was within sample.				6-4-4-2 (8)	12.4	50.5	38.2	11.3
		Field Note: No Recovery				1-2-3-6 (5)				
10		A-2-4, GrSa, brn-white, Moist, Rec. = 0.3 ft, Broken rock (Marble) was within sample.				6-4-2-1 (6)	16.7	41.8	43.2	15.0
		A-4, SaSi with Trace of Organics (6.2%), brn, Moist, Rec. = 1.1 ft				2-2-2-4 (4)	51.5	1.4	41.5	57.1
		Field Note: No Recovery, Appears to be silt.				1-2-1-1 (3)				
		Field Note: No Recovery, Appears to be silty sand.				2-4-8-4 (12)				
		A-1-b, SaGr, gry, Moist, Rec. = 0.6 ft				7-6-5-4 (11)	12.3	48.6	39.4	12.0
20										
		A-3, Sa, brn, MTW, Rec. = 0.8 ft				1-1-1-1 (2)	26.1	0.1	93.0	6.9
25										
		A-3, Sa, brn, Wet, Rec. = 0.5 ft				WR-WH-1-1 (1)	27.6		95.0	5.0
30										
		A-3, Sa, gry, MTW, Rec. = 1.2 ft				3-4-5-6 (9)	18.4	8.7	81.8	9.5

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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		A-2-4, SiSa, gry, Moist, Rec. = 0.7 ft				4-10-5-R/2.5" (15)		17.1	13.3	65.6	21.1
40		NXMDC, Boulder, 39.0 ft - 40.1 ft									
		NXDC, Cobbles & Gravel, 42.0 ft - 44.0 ft									
45											
		NXDC, Cobbles, 46.0 ft - 47.0 ft									
		A-4, GrSaSi (HP), gry, Moist, Rec. = 0.5 ft				18-R/2.5" (R)		7.9	29.3	30.7	40.0
		NXDC, Boulder, 47.7 ft - 49.5 ft									
50											
		NXDC, Cobbles, 51.2 ft - 52.0 ft									
		A-4, GrSaSi (HP), gry, Moist, Rec. = 0.7 ft				40-R/4.5" (R)		9.4	23.5	24.9	51.6
		NXDC, 52.9 ft - 54.0 ft									
55		54.0 ft - 57.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing.. Very hard, Fresh, Good rock, NXMDC	1 (?)	100 (80)	18						
					18						
					16						
		57.0 ft - 62.0 ft, Same as Run #1. NXMDC	2 (?)	96 (64)	25						
					24						
					10						
					8						
					9						
		62.0 ft - 64.0 ft, Same as Run #1. NXMDC	3 (?)	95 (85)	12						
					19						
65		Hole stopped @ 64.0 ft									

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