



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-101A

Page No.: 1 of 1

Pin No.: 08J096

Checked By: CAA

Boring Crew: PORTER, GARROW
Date Started: 6/08/10 Date Finished: 6/09/10
VTSPG NAD83: N 402151.03 ft E 1507180.17 ft
Station: 7+40 Offset: -11.50
Ground Elevation: 517.5 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
06/09/10	8.0	Prior to drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 11.0		NXDC, 0.0 ft - 11.0 ft, Advanced and cleaned out casing.								
11.0 - 12.0		NXDC, 11.0 ft - 12.0 ft, Cobbles								
12.0 - 16.5		NXDC, 12.0 ft - 16.5 ft, Advanced and cleaned out casing.								
16.5 - 18.0		NXDC, 16.5 ft - 18.0 ft, Cobbles								
18.0 - 21.0		NXDC, 18.0 ft - 21.0 ft, Advanced and cleaned out casing.								
21.0 - 23.0		NXDC, 21.0 ft - 23.0 ft, Cobbles								
23.0 - 41.8		NXDC, 23.0 ft - 41.8 ft, Advanced and cleaned out casing.								
41.8 - 43.0		NXDC, 41.8 ft - 43.0 ft, Cobbles				R/4.5" (R)				
43.0 - 47.0		Visual Classification, SiSa (HP), gry, Moist, Rec. = 0.3 ft, Insufficient sample for testing.								
47.0 - 50.0		NXDC, 47.0 ft - 50.0 ft, Cleaned out casing.								
50.0 - 51.5		A-4, SaGrSi (HP), gry, Moist, Rec. = 0.7 ft				45- R/3.5" (R)	9.5	26.0	23.8	50.2
51.5 - 53.0		NXDC, Cobbles, 51.5 ft - 53.0 ft, Cleaned out casing.								
53.0 - 54.0		NXDC, (HP), 53.0 ft - 54.0 ft					7.1	39.6	18.9	41.5
54.0 - 55.0		Boulder, 54.0 ft - 55.0 ft								
55.0 - 58.0		A-4, GrSi (HP), gry, Moist, Sample from NXMDC core.								
58.0 - 63.0		58.0 ft - 63.0 ft, Light gray, Quartzite, with closely spaced iron stained jointing.. Very hard, Moderately weathered, Fair rock, NXMDC	1 (?)	100 (14)	8 8 6 7 7					
63.0 - 68.0		63.0 ft - 68.0 ft, Same as Run #1. NXMDC	2 (?)	100 (32)	8 8 12 7 7					
68.0 - 68.0		Hole stopped @ 68.0 ft								
68.0 - 58.0		Top of Bedrock @ 58.0 ft								

BORING LOG 2 RUTLAND CITY BRF 3000(19).GPJ VERMONT AOT.GDT 11/8/10

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.