



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

BORING LOG

**SANDGATE
 BO 1441(30)
 TH-9 BR-27**

Boring No.: **B-104**
 Page No.: 1 of 1
 Pin No.: 13J086
 Checked By: CEE

Boring Crew: HOOK, JUDKINS, HULBERT
 Date Started: 5/28/15 Date Finished: 5/29/15
 VTSPG NAD83: N 245388.40 ft E 1442056.34 ft
 Station: 11+20 Offset: -9.00
 Ground Elevation: 889.8 ft

Casing Type: 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 55 TRACK C_r = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
05/29/15	6.2	Before 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		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft				1-3-5-4 (8)	8.7	54.3	33.8	11.9
5		Field Note:, NXDC, Cleaned out casing A-1-a, SaGr, gry-brn, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample. Field Note:, Cobbles, NXDC, Cleaned out casing				10-30-16-13 (46)	10.2	67.3	23.6	9.1
10		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				17-15-15-15 (30)	10.1	60.0	26.3	13.7
15		Field Note:, NXDC, Cleaned out casing A-1-a, SaGr, gry-brn, MTW, Rec. = 1.1 ft, Very hard drilling. Lab Note: Broken Rock was within sample.				9-7-9-7 (16)	12.1	62.0	26.5	11.5
20		Field Note:, NXDC, Cleaned out casing. Very hard drilling. Visual Description:, Severely Weathered Rock, Lt/brn, Moist, Rec. = 0.4 ft				R@5.0" (R)	14.0			
25		Field Note:, NXDC, Cleaned out casing. Very hard drilling. Visual Description:, Severely Weathered Rock, Lt/brn, Moist, Rec. = 0.2 ft Field Note:, NXDC, Cleaned out casing				R@2.5" (R)	12.5			
30		28.5 ft - 28.8 ft, Light tan, PHYLLITE, Soft, Moderately weathered, NXMDC 28.8 ft - 33.5 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, Poor rock, Rust and brown staining on joint surfaces. RMR = 29	1 (20)	96 (0)	1 2 2 2	Top of Bedrock @ 28.5 ft				
35		33.5 ft - 35.6 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, NXMDC 35.6 ft - 37.3 ft, Light tan, PHYLLITE, Soft, Moderately weathered, Rust and purple staining on joints throughout core. 37.3 ft - 38.5 ft, Light green & gray, PHYLLITE, Medium hard, Slightly weathered, Poor rock, RMR = 30	2 (20)	98 (0)	1 1 2 2					
40		Hole stopped @ 38.5 ft								
45		Remarks: Hole collapsed at 9.8 ft.								

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_r 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 SANDGATE BO 1441(30).GPJ VERMONT AOT.GDT 6/23/15