



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

BORING LOG

SOUTH HERO
STP HES 028-1(22)
US-2 & VT-314 ROADWAY

Boring No.: **B-153**
 Page No.: **1 of 1**
 Pin No.: **12B016**
 Checked By: **MLM**

Boring Crew: **DAIGNEAULT, HALL**
 Date Started: **6/20/13** Date Finished: **6/20/13**
 VTSPG NAD83: **N 789995.60 ft E 1426359.00 ft**
 Station: **61+16** Offset: **46.00**
 Ground Elevation: **124.83 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 45C SKID** **C_r = 1.33**

Groundwater Observations		
Date	Depth (ft)	Notes
06/20/13	1.0	Casing removed.

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 %	LL %	PI %
0.0 - 0.72		Asphalt Pavement, 0.0 ft - 0.72 ft										
5.0 - 8.0		Visual Description:; Cl with large pieces of Broken Rock, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.				4-7-5-5 (12)	20.1					
8.0 - 9.6		Visual Description:; Cl, brn, Moist, Rec. = 1.6 ft, Material similar as 8-10 ft.				2-3-3-4 (6)	40.9					
9.6 - 11.6		A-7-6, Cl, brn, Moist, Rec. = 2.0 ft, Shelby Tube sample.					37.5	3.3	7.8	88.9	64	37
11.6 - 13.5		A-7-6, Cl, brn, Moist, Rec. = 1.9 ft				1-3-3-3 (6)	45.5	1.8	7.3	90.9	63	35
13.5 - 15.7		Shelby Tube, brn, Moist, Rec. = 1.1 ft, 10.0 ft - 11.1 ft				(R@11.1")						
15.7 - 17.3		A-4, ClSi with sand, brn, Moist, Rec. = 1.6 ft				4-9-8-9 (17)	16.1	14.7	29.6	55.7	25	10
17.3 - 18.0		Visual Description:; ClSi with large pieces of Broken Rock, brn, Moist, Rec. = 0.5 ft, Insufficient sample for testing.				10-R@2.5" (R)	7.8					
18.0 - 22.0		15.7 ft - 18.0 ft, Dark gray, Calcareous Shale, Moderately hard, Unweathered, Good rock, NXDC, RMR = 67	1 (45)	87 (70)								
18.0 - 22.0		18.0 ft - 22.0 ft, Dark gray, Calcareous Shale, Moderately hard, Unweathered, Good rock, BXMDC, RMR = 67	2 (45)	90 (73)	7 5 6 6							
22.0 - 22.0		Hole stopped @ 22.0 ft										
25.0		Remarks: 1. Hole collapsed at 15.5 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 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 SOUTH HERO STP HES 028-1(22).GPJ VERMONT AOT.GDT 8/12/13