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

BORING LOG

STOWE
BHF 0235(11)
VT-108 BR-2

Boring No.: **B-103**
Page No.: 1 of 1
Pin No.: 87E052
Checked By:

Boring Crew: JUDKINS, GARROW, NIETO
Date Started: 1/13/14 Date Finished: 1/14/14
VTSPG NAD83: N 716867.87 ft E 1591265.66 ft
Station: 4+78 Offset: -9.30
Ground Elevation: 704.81 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	C_e = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
01/14/14	2.7	While drilling.
01/14/14	1.1	Hole collapsed.

PILE CAP
EL=702.00

ESTIMATED PILE
TIP EL= 685.71

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 %
		A-1-b, SaGr, gry, Moist, Rec. = 1.3 ft, Lab Note: Mostly Broken Rock pieces (Phyllite).				30-17-5-2 (22)	14.1	52.1	29.6	18.3
		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.7 ft, Lab Note: Mostly Broken Rock pieces (Phyllite).				3-10-8-7 (18)	10.1	56.5	31.9	11.6
5		A-4, SaSi, gry-Lt/brn, Moist, Rec. = 1.3 ft				3-4-5-6 (9)	18.4	6.3	39.0	54.7
		A-4, GrSaSi, gry-Lt/brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock pieces (Phyllite) were within sample.				5-6-8-R@1.0" (14)	16.7	22.1	35.2	42.7
		A-1-b, SiSaGr, gry-rust, Moist, Rec. = 0.3 ft, Lab Note: Broken & Weathered Rock pieces (Phyllite) were within sample.				R@3.5"	14.4	39.2	36.9	23.9
10		A-4, SaSi, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock pieces (Phyllite) were within sample.				9-7-7-7 (14)	22.3	10.4	42.0	47.6
		A-4, GrSaSi, gry, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock pieces (Phyllite) were within sample.				4-5-8-14 (13)	16.4	30.5	33.5	36.0
15		A-1-b, SaGr, gry, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock pieces (Phyllite) were within sample.				32-36-R@5.0" (R) R@1.0"	11.9	50.9	31.9	17.2
		Visual Description:, Broken Rock pieces (Phyllite), gry, Moist, Rec. = 0.1 ft	1 (60)	80 (0)	5					
		16.1 ft - 21.1 ft, Dark gray, Carbonaceous biotite-muscovite-quartz Phyllite, with quartz laminae. Moderately soft, Fair rock, NXMDC, Upper part of Run was Unweathered. Lower part of Run was Moderately Weathered. RMR = 44			4 8 9 11	Top of Bedrock @ 16.1 ft				
20										
		21.1 ft - 26.1 ft, Dark gray, Carbonaceous biotite-muscovite-quartz Phyllite, with quartz laminae. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 54	2 (60)	100 (60)	4 5 6 5 6					
25										
		Hole stopped @ 26.1 ft								
30		Remarks: 1. Drilling was performed from the bridge deck. 2. Asphalt Pavement depth was 0.13 ft. 3. Concrete depth was 0.97 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_e 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 STOWE BHF 0235(11).GPJ VERMONT AOT.GDT 1/31/14

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

BORING LOG

STOWE
BHF 0235(11)
VT-108 BR-2

Boring No.: **B-104**
Page No.: 1 of 1
Pin No.: 87E052
Checked By:

Boring Crew: JUDKINS, GARROW, NIETO
Date Started: 1/16/14 Date Finished: 1/16/14
VTSPG NAD83: N 716874.09 ft E 1591282.08 ft
Station: 4+75 Offset: 8.00
Ground Elevation: 706.87 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	C_e = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
01/16/14	17.5	While drilling.

PILE CAP
EL=702.00

ESTIMATED PILE
TIP EL= 682.87

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 %
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaGrSi, Lt/brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				6-2-2-5 (4)	23.9	31.4	26.6	42.0
5										
		A-4, SaSi, Lt/brn, Moist, Rec. = 1.3 ft, Lab Note: Sample was rust colored.				1-1-2-2 (3)	34.1	7.3	39.6	53.1
10										
		A-1-b, SaGr, gry, Moist, Rec. = 0.7 ft, Lab Note: Sample was mostly Broken Rock pieces (Phyllite). Field Note:, NXDC, Cobbles & Boulders, Cleaned out casing.				15-R@3.5" (R)	11.8	44.7	39.4	15.9
15										
		A-1-b, SiSaGr, gry, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.				7-13-11-19 (24)	13.7	45.0	34.7	20.3
		Field Note:, NXDC, Cobbles, Cleaned out casing.								
20										
		21.0 ft - 26.0 ft, Grayish green, Chlorite-muscovite-quartz Phyllitic Schist, with quartzofeldspthic layers. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 49	1 (88)	96 (44)	4 6 5 5 4	Top of Bedrock @ 21.0 ft				
25										
		26.0 ft - 31.0 ft, Grayish green, Chlorite-muscovite-quartz Phyllitic Schist, with quartzofeldspthic layers. Moderately soft, Unweathered, Fair rock, NXMDC, RMR = 49	2 (88)	100 (36)	4 3 3 3 4					
30										
		Hole stopped @ 31.0 ft								
35		Remarks: 1. Drilling was performed from the bridge deck. 2. Asphalt Pavement depth was 0.15 ft. 3. Concrete depth was 0.85 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_e 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 STOWE BHF 0235(11).GPJ VERMONT AOT.GDT 1/31/14

PROJECT NAME: STOWE
PROJECT NUMBER: BRF 0235 (11)

FILE NAME: s87e052bor.dgn
PROJECT LEADER: C. CARLSON
DESIGNED BY: D. PETERSON
BORING LOGS 3

PLOT DATE: 28-JUL-2014
DRAWN BY: M. LONGSTREET
CHECKED BY: J. LACROIX
SHEET 26 OF 64