

MODEL: BORO3

CLD 12-010 \$FILEABBREV\$

VT		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-103			
VT		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		STOWE BHF 0235(15) VT-108 BR-3		Page No.: 1 of 2 Pin No.: 88C190 Checked By: MLM			
Boring Crew: DAIGNEAULT, JUDKINS		Casing: WB		Sampler: SS		Groundwater Observations			
Date Started: 8/27/13 Date Finished: 8/27/13		I.D.: 4 in 1.5 in		Date: 08/27/13		Depth (ft): 11.4			
VTSPG NAD83: N 719001.30 ft E 1586524.99 ft		Hammer Wt: N.A. 140 lb.		Notes					
Station: 16+57.3 Offset: -20.00		Hammer Fall: N.A. 30 in.		08/27/13		11.4 After drilling.			
Ground Elevation: 738.4 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK		C <sub>r</sub> = 1.46					
Depth (ft)	Strata (1)	Run (Dip-deg)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	A-1-b, GrSa, Dk/brn, Moist, Rec. = 0.5 ft. Broken Rock was within sample.	1-1-1.8 (2)	6.3	42.5	45.4	12.1			
	A-1-a, SaGr, L/brn, Moist, Rec. = 0.6 ft, Lab Note: Mostly Broken Rock	3-1-3.5 (4)	4.5	65.1	24.6	10.3			
	A-1-b, SiSaGr, brn, Moist, Rec. = 0.4 ft. Broken Rock was within sample.	3-8-9-10 (17)	9.9	50.9	26.8	22.3			
	A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft	8-13-16 (12)	9.9	49.3	37.2	13.5			
	A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft. Broken Rock was within sample.	5-11-14 (25)	8.7	45.8	38.5	15.7			
10	A-2-4, SiSaGr, brn, Moist, Rec. = 0.5 ft	9-9-8-5 (17)	10.2	43.0	29.8	27.2			
	A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft	3-5-9-5 (14)	10.2	56.3	28.9	14.8			
15	Visual Description: SaGr, gry, Moist, Rec. = 0.1 ft. Stone caught in sampler. Insufficient sample for testing.	3-4-6-8 (10)							
	A-1-b, SaGr, gry, Moist, Rec. = 0.7 ft	7-7-9-9 (16)	10.1	49.3	38.2	12.5			
	A-1-b, GrSa, gry-rust, Moist, Rec. = 0.6 ft. Lab Note: Sample had an orange colored area with the remainder of sample being gray.	9-8-7-7 (15)	13.9	33.7	48.7	17.6			
20									
25	A-4, Si, gry, MTW, Rec. = 1.0 ft	6-3-3-4 (6)	31.5	3.9	3.3	92.8			
30	A-4, Si, gry, MTW, Rec. = 0.8 ft	4-3-3-3 (6)	30.3		7.6	92.4			
35	A-4, SaSi, gry, MTW, Rec. = 0.8 ft	5-4-3-2 (7)	19.0	12.9	35.2	51.9			
40	Field Note: No Recovery	3-1-1-1 (2)							

BOTTOM OF ABUT. 2  
EL. 732.0'

ESTIMATED PILE TIP  
EL. 686.4'

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<sub>r</sub> 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.

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Boring Crew: DAIGNEAULT, JUDKINS		Casing: WB		Sampler: SS		Groundwater Observations			
Date Started: 8/27/13 Date Finished: 8/27/13		I.D.: 4 in 1.5 in		Date: 08/27/13		Depth (ft): 11.4			
VTSPG NAD83: N 719001.30 ft E 1586524.99 ft		Hammer Wt: N.A. 140 lb.		Notes					
Station: 16+57.3 Offset: -20.00		Hammer Fall: N.A. 30 in.		08/27/13		11.4 After drilling.			
Ground Elevation: 738.4 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK		C <sub>r</sub> = 1.46					
Depth (ft)	Strata (1)	Run (Dip-deg)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50	Visual Description: Broken Rocks, gry, Moist, Rec. = 0.1 ft. Stone caught in sampler. Insufficient sample for testing.	3-1-1-5 (2)							
	A-1-b, SaGr, gry, Moist, Rec. = 0.7 ft. Lab Note: Broken Rock & little Weathered Rock was within sample.	19-29-R @ 1.0' (R)							
	Field Note: NXDC 52.0 ft - 57.0 ft. Dark gray & black, Carbonaceous, graphitic, biotite-muscovite-quartz Phyllite, with silicic laminae. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 49	1 (45)	100 (50)	12					
	57.0 ft - 62.0 ft. Dark gray & black, Carbonaceous, graphitic, biotite-muscovite-quartz Phyllite, with silicic laminae. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 49	2 (45)	92 (54)	4					
	Hole stopped @ 62.0 ft								
60	Remarks: 1. Hole collapsed at 7.2 ft.								
65									
70									
75									
80									
85									

Notes:  
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 2. N Values have not been corrected for hammer energy. C<sub>r</sub> 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.

VT		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-104			
VT		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		STOWE BHF 0235(15) VT-108 BR-3		Page No.: 1 of 1 Pin No.: 88C190 Checked By: MLM			
Boring Crew: DAIGNEAULT, JUDKINS		Casing: WB		Sampler: SS		Groundwater Observations			
Date Started: 8/21/13 Date Finished: 8/22/13		I.D.: 4 in 1.5 in		Date: 08/22/13		Depth (ft): 19.5			
VTSPG NAD83: N 718957.36 ft E 1586495.57 ft		Hammer Wt: N.A. 140 lb.		Notes					
Station: 16+26 Offset: 20.00		Hammer Fall: N.A. 30 in.		08/22/13		19.5 While drilling.			
Ground Elevation: 745.5 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 55 TRACK		C <sub>r</sub> = 1.46					
Depth (ft)	Strata (1)	Run (Dip-deg)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	A-2-4, SiGrSa, brn, Moist, Rec. = 0.6 ft	1-1-4-3 (5)	4.8	26.1	49.9	24.0			
	A-2-4, SiGrSa, brn, Moist, Rec. = 0.8 ft	3-3-4-3 (7)	6.3	25.4	50.2	24.4			
	Visual Description: Lots of Broken Rock with Sand, brn, Moist, Rec. = 0.2 ft	4-6-7-5 (13)	5.7						
	A-2-4, SiSaGr, brn, Moist, Rec. = 0.4 ft	6-5-5-5 (10)	14.2	36.3	33.2	30.5			
	A-2-4, GrSiSa, brn, Moist, Rec. = 0.7 ft. Some Broken Rock was within sample	6-5-22-R (27)	14.2	25.6	43.4	31.0			
10	Visual Description: Broken Rock with Silty Sand, brn-gry, Moist, Rec. = 0.2 ft	12-7-5-5 (12)	8.9						
	A-1-b, SiSaGr, brn, Moist, Rec. = 0.4 ft	2-4-6-9 (10)	9.1	51.7	26.6	21.7			
	Field Note: No Recovery	9-7-7-9 (14)							
	Visual Description: SaGr with Broken Rock, gry, MTW, Rec. = 0.4 ft. Insufficient sample for testing.	7-7-15 (2)	8.9						
20	A-1-b, SiSaGr, brn, MTW, Rec. = 0.3 ft	8-5-7-5 (13)	10.5	43.8	30.7	25.5			
	A-4, Si, brn, Wet, Rec. = 0.8 ft	5-2-3-3 (5)	30.8	1.9	8.7	89.4			
	A-4, Si, gry, Wet, Rec. = 1.2 ft	2-2-3-3 (5)	29.6		6.2	93.8			
30	A-4, SaSi, gry, Wet, Rec. = 1.0 ft	4-6-5-4 (11)	24.1	2.0	25.2	72.8			
	Visual Description: Broken Rock with Silty Sand, gry, MTW, Rec. = 0.4 ft	11-7-6-8 (13)	7.0						
40	38.5 ft - 39.5 ft. Dark gray & black, Carbonaceous, graphitic, biotite-muscovite-quartz Phyllite, with silicic laminae. Moderately hard, Unweathered, Poor rock, NXDC, Low RQD may be due to mechanical breakage along foliation planes. RMR = 39	1 (45)	80 (0)	3					
	39.5 ft - 44.5 ft. Dark gray & black, Carbonaceous, graphitic, biotite-muscovite-quartz Phyllite, with silicic laminae. Moderately hard, Unweathered, Poor rock, NXMDC, Low RQD may be due to mechanical breakage along foliation planes. RMR = 39	2 (45)	100 (0)	4					
	44.5 ft - 49.5 ft. Dark gray & black, Carbonaceous, graphitic, biotite-muscovite-quartz Phyllite, with silicic laminae. Moderately hard, Unweathered, Poor rock, NXMDC, Low RQD may be due to mechanical breakage along foliation planes. RMR = 39	3 (45)	100 (20)	4					
	Hole stopped @ 49.5 ft								
50	Remarks: 1. Hole collapsed at 13.8 ft.								

Notes:  
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 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.

PROJECT NAME: STOWE  
 PROJECT NUMBER: BRF 0235(15)

FILE NAME: z88c190bor.dgn  
 PROJECT LEADER: J. BYATT  
 DESIGNED BY: J. FRENCH  
 BORING LOGS (2 OF 2)

PLOT DATE: 5/8/2015  
 DRAWN BY: M. SMITH  
 CHECKED BY: J. BYATT  
 SHEET 33 OF 79

