

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-101			
		MARLBORO		Page No.: 1 of 1		Pin No.:			
		BRF 010-1 (43)		Checked By: LJD					
Boring Crew: Geosearch, Inc. Fitchburg, MA, JE		Casing Sampler		Groundwater Observations					
Date Started: 7/30/12 Date Finished: 7/31/12		Type: HW SS	Date	Depth (ft)	Notes				
VTSPG NAD83: N 137719.00 ft E 1588828.00 ft		Hammer Wt: 300 140 lb.	07/30/12	9.5					
Station: 393+10 Offset: 9 RT		Hammer Fall: 24 30 in.							
Ground Elevation: 1,299.0 ft. (approx)		Hammer/Rod Type: Auto/N							
		Rig: CME 55 CE = 1.3							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	XXXX	Bituminous concrete, 0.0 ft - 0.5 ft			11-17-18 (35)	1.0	54.2	33.7	12.1
0	XXXX	A-1-a, GrSaSi, gray, Rec. = 1.2 ft, (Fill)							
0	XXXX	A-1-b, GrSaSi, gry-brn, Rec. = 1.3 ft, (Fill)			11-14-12-12 (26)	5.0	44.7	42.9	12.4
0	XXXX	A-1-b, SaGrSi, gry-brn, Rec. = 1.0 ft, (Fill)			23-14-11-8 (25)	9.2	40.9	43.2	15.9
5	XXXX	A-4, SaSiGr, brn Rec. = 1.7 ft			5-11-13-11 (24)	31.6	14.2	44.5	41.3
5	XXXX	A-1-a, GrSaSi, brn				9.1	55.8	34.6	9.6
5	XXXX	A-1-a, GrSaSi, brn, Rec. = 1.5 ft			8-16-19-23 (35)	8.3	63.0	27.5	9.5
10	XXXX	A-1-b, GrSaSi, brn, Rec. = 1.3 ft			20-26-29-46 (55)	6.9	53.3	31.6	15.1
10		12.0 ft - 14.0 ft, Highly weathered bedrock Rec = 0.3 ft			62/6" (62+)				
15		14.0 ft - 17.5 ft, NXDC, Hard, fresh, dark gray, medium grained QUARTZITE, primary joints low angle, closely spaced (possible boulder).	1 (10-30)	88 (15.5)					
15		17.5 ft - 19.0 ft, Hard, fresh light gray, fine grained, QUARTZITE, primary joints low angle, moderately spaced.							
20		19.0 ft - 24.0 ft, NXDC, Hard, fresh light gray, fine grained, QUARTZITE, primary joints low angle, widely spaced.	2 (10-30)	97 (76)					
25		24.0 ft - 29.0 ft, NXDC, Hard, fresh light gray, fine grained, QUARTZITE, primary joints low angle, widely spaced. Qu = 9,390 psi (24.4 ft) Qu = 8,950 psi (24.7 ft)	3 (10-30)	95 (95)					
Hole stopped @ 29.0 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. 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.									

AB #1
BOTTOM OF
PILE CAP
EL 1288.16

AB #1
PILE TIP
EL 1278.16

BORING LOG: J1125130.GPJ VERMONT AOT.GDT 10/25/12

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102			
		MARLBORO		Page No.: 1 of 1		Pin No.:			
		BRF 010-1 (43)		Checked By: LJD					
Boring Crew: Geosearch, Inc. Fitchburg, MA, JE		Casing Sampler		Groundwater Observations					
Date Started: 8/01/12 Date Finished: 8/01/12		Type: HW SS	Date	Depth (ft)	Notes				
VTSPG NAD83: N 137775.00 ft E 1588854.00 ft		Hammer Wt: 300 140 lb.	08/01/12	8.5					
Station: 393+85 Offset: 10 LT		Hammer Fall: 24 30 in.							
Ground Elevation: 1,298.5 ft. (approx)		Hammer/Rod Type: Auto/N							
		Rig: CME 55 CE = 1.3							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	XXXX	Bituminous concrete, 0.0 ft - 0.5 ft							
0	XXXX	Gravel base, 0.5 ft - 1.0 ft							
0	XXXX	A-1-a, GrSaSi, gry-brn, Rec. = 1.5 ft, (Fill)			6-11-13-21 (24)	2.3	57.4	31.6	11.0
5	XXXX	A-1-b, GrSaSi, gry-brn, Rec. = 1.7 ft, (Fill)			5-2-2-7 (4)	3.7	47.8	43.1	9.1
10	XXXX	A-4, SaSiGr, Rec. = 1.5 ft, with roots, wood pieces (Fill)			2-2-52-35 (54)	47.2	13.7	48.7	37.6
10		A-4, C-F SAND, some silt, little gravel, brn, very dense							
15		13.0 ft - 15.0 ft, Highly weathered bedrock							
15		15.0 ft - 20.0 ft, NXDC, Hard, fresh, gray, fine grained SCHIST, with high angle foliation. Qu = 5,760 psi (16.8 ft) Qu = 3,730 psi (18.6 ft)	1 (60-80)	100 (95)					
20		20.0 ft - 25.0 ft, NXDC, Hard, fresh, gray, fine grained SCHIST, with high angle foliation, primary joint parallel to foliation, widely spaced. Qu = 1,654 psi (21.0 ft) Qu = 1,816 psi (22.2 ft) Qu = 2,430 psi (23.3 ft) Qu = 3,881 PSI (24.6 ft)	2 (60-80)	100 (87)					
25		Hole stopped @ 25.0 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. 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.									

AB #2
BOTTOM OF
PILE CAP
EL 1286.64

AB #2
PILE TIP
EL 1276.64

BORING LOG: J1125130.GPJ VERMONT AOT.GDT 10/25/12

PROJECT NAME: MARLBORO
PROJECT NUMBER: BRF 010-1 (43)

FILE NAME: s11b414bor.dgn PLOT DATE: 28-AUG-2013
PROJECT LEADER: K. HIGGINS DRAWN BY: K. FRIEDLAND
DESIGNED BY: R. KLINEFLTER CHECKED BY: G. LAROCHE
BORING LOGS SHEET 22 OF 50