

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-103					
		ST. JOHNSBURY BF 7000(20) VT-2B BR-6		Page No.: 1 of 3		Pin No.: 86E048					
		Checked By: END		Groundwater Observations							
Boring Crew: HOOK, DAIGNEAULT		Casing	Sampler	Date	Depth (ft)	Notes					
Date Started: 6/16/14 Date Finished: 6/18/14		Type: WB	SS								
VTSPG NAD83: N 700872.66 ft E 1761696.27 ft		I.D.: 4 in	1.5 in								
Station: 63+25 Offset: -38.60		Hammer Wt: N.A.	140 lb.	06/17/14	11.8	While drilling.					
Ground Elevation: 672.38 ft		Hammer Fall: N.A.	30 in.	06/18/14	11.2	While drilling.					
		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 55 TRACK	C _e = 1.46								
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
	A-4, SaSi, brn, Moist, Rec. = 0.4 ft, Cleaned out with roller cone.				WH-WH-1-1 (1)	21.9	3.0	48.3	48.7		
	A-4, ClSi, brn-gry, Moist, Rec. = 1.8 ft, Cleaned out with roller cone.				1-1-1-2 (2)	31.5		3.4	96.6	28	8
5	A-6, SiCl, gry, Moist, Rec. = 2.0 ft, Cleaned out with roller cone.				WH-WH-WH-WH (WH)	37.6		0.2	99.8	32	13
	A-6, SiCl, gry, Moist, Rec. = 2.0 ft, Cleaned out with roller cone. Material from Consolidation sample & Triaxial T-208 tube sample "A".					42.4		0.2	99.8	39	19
	A-7-6, Cl, gry, Moist, Material from Triaxial T-208 "B & C" tube samples.					49.0		0.8	99.2	47	24
	A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Material from Consolidation sample & Triaxial T-208 tube sample "A".					45.7		0.9	99.1	45	22
	A-7-6, Cl, gry, Moist, Material from Triaxial T-208 "B & C" tube samples.					48.8		0.5	99.5	50	25
10	Visual Description: SiCl, gry, Moist, Rec. = 2.0 ft, Lab Note: Material similar as 12-14 ft.				(WH)	42.7					
	A-6, SiCl, gry, Moist, Rec. = 2.0 ft, Cleaned out with roller cone.				(WH)	41.0		0.3	99.7	36	16
15	Visual Description: SiCl, gry, Moist, Rec. = 2.0 ft, Lab Note: Material similar as 16-18 ft.				(WH)	40.5					
	A-6, SiCl, gry, Moist, Rec. = 2.0 ft, Cleaned out with roller cone.				(WH)	41.3	7.3	0.2	92.5	39	18
	Visual Description: SiCl, gry, Moist, Rec. = 2.0 ft, Lab Note: Material similar as 20-22 ft.				WH-2-2-1 (4)	34.5					
20	A-6, SiCl, gry, Moist, Rec. = 2.0 ft				WH-1-2-1 (3)	37.7		0.4	99.6	36	16
	Field Note: Cleaned out with roller cone										
25	A-4, ClSi, gry, Moist, Rec. = 2.0 ft				WH-1-1-2 (2)	30.6		0.3	99.7	28	9

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.

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		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 55 TRACK	C _e = 1.46								
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
30	Visual Description: Broken Rock with silt & little clay, gry, MTW, Rec. = 0.5 ft, Insufficient sample for testing.				3-5-3-6 (8)	13.2					
35	A-4, GrSiSa (HP), gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	8.0	21.7	39.7	38.6		
40	A-4, SiSa (HP), gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	8.6	18.2	41.5	40.3		
45	A-4, SaSi (HP), gry, Moist, Rec. = 0.9 ft				35-R@5.0" (R)	9.2	14.7	36.2	49.1		
50	A-2-4, SaSiGr, gry, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				35-R@2.5" (R)	7.1	41.5	26.4	32.1		

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		Rig: CME 55 TRACK	C _e = 1.46								
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55	A-4, SaGrSi, gry, Moist, Rec. = 0.4 ft				R@5.0" (R)	8.2	33.1	30.2	36.7		
60	Field Note: Cleaned out with NXDC										
	A-4, GrSaSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				44-48-R@1.0" (R)	8.1	25.1	31.7	43.2		
65	63.4 ft - 68.4 ft, Bluish-gray, Micaceous siliceous Meta-Limestone, Hard, Unweathered, Good rock, NXMDC, RMR = 72	1 (30)	96 (56)	4							
	Top of Bedrock @ 63.4 ft										
70	68.4 ft - 73.4 ft, Bluish-gray, Micaceous siliceous Meta-Limestone, Hard, Unweathered, Very good rock, NXMDC, RMR = 84	2 (?)	100 (100)	2							
75	Hole stopped @ 73.4 ft										
	Remarks: Hole collapsed at 59.2 ft.										

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CLD 14-016 MODEL: BOR03

PROJECT NAME:	ST. JOHNSBURY
PROJECT NUMBER:	BF 7000(20)
FILE NAME:	86e048/cos/z86e048bor.dgn
PLOT DATE:	10/26/2016
PROJECT LEADER:	J. BYATT
DRAWN BY:	M. SMITH
DESIGNED BY:	A. GIRALDI
CHECKED BY:	S. BEAUMONT
BORING LOGS SHEET 2	SHEET 29 OF 70

