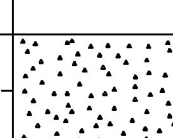
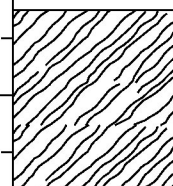
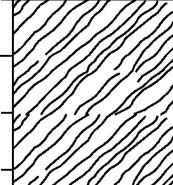
 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG				Boring No.: B-2				
		St. Johnsbury BRO 1447(30) TH 371, Bridge #46 Over Sleepers River				Page No.: 3 of 3				
Boring Crew: <u>NH Boring, Derry, NH, Burke (Stantec)</u> Date Started: <u>12/04/13</u> Date Finished: <u>2/06/13</u> VTSPG NAD83: <u>N 696223.63 ft E 1766260.41 ft</u> Station: <u>15+98.34</u> Offset: <u>7.35 RT</u> Ground Elevation: <u>557.0 ft</u>		Casing Sampler Type: <u>WASH BORE SS</u> I.D.: <u>4 in 1.38 in</u> Hammer Wt: <u>300 lb. 140 lb.</u> Hammer Fall: <u>24 in 30 in.</u> Hammer/Rod Type: <u>Safety/N</u> Rig: <u>N.H. BORING - Truck C_i = 1</u>		Groundwater Observations						
				Date	Depth (ft)	Notes				
				12/06/13	15.0					
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 %
		Visual Classification, Sa, gry, Wet, Rec. = 1.2 ft				17-26-27-27 (53)				
85		A-3, Sa, gry, Wet, Rec. = 0.8 ft				18-24-25-24 (49)	20.2		91.0	9.0
90		Visual Classification, Sa, gry, Wet, Rec. = 1.2 ft				21-23-32-32 (55)				
95		93.5 ft - 98.5 ft, Gry, Phyllite, Hard, Fresh, Poor rock, NXDC, Joints are low angle to moderately dipping, closely spaced, smooth to rough, and tight to open. RMR = 39	1 (5-55)	53 (28)	10					
					4					
					2					
					3					
					3					
100		99.0 ft - 104.0 ft, Gry, Phyllite, Hard, Fresh, Fair rock, NXDC, Joints are low angle, moderately close, smooth to rough, and tight. RMR = 58	2 (5-55)	93 (80)	6					
					5					
					6					
					7					
					8					
105		Hole stopped @ 104.0 ft								
110		Remarks: Cleaned out hole to 99 feet bgs with roller bit after core run no. 1.								
115										
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 of groundwater may occur due to other factors than those present at the time measurements were made.										

BOTTOM OF PILE TIP
APPROX. EL. 459.5

2010 COPY VTRANS_BRIDGE 46 ST JOHNSBURY_VT.GPJ VERMONT AOT.GDT 3/6/14

PROJECT NAME:	ST JOHNSBURY
PROJECT NUMBER:	BRO 1447(30)
FILE NAME: z12j164bor_log.dgn	PLOT DATE: 9/30/2016
PROJECT LEADER: M. CHENETTE	DRAWN BY: L. BUXTON
DESIGNED BY: T. DYKSTRA	CHECKED BY: J. HUNGERFORD
BORING LOG 4	SHEET 25 OF 76

