



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
CONSTRUCTION AND  
MATERIALS BUREAU  
CENTRAL LABORATORY

BORING LOG

Johnson  
BF 0248(7)  
Bridge #4 VT 100C

Boring No.: **B-105**

Page No.: 1 of 1

Pin No.: 12c590

Checked By: END

Boring Crew: Garrow, Judkins, Hook  
Date Started: 2/01/16 Date Finished: 2/02/16  
VTSPG NAD83: N 788458.36 ft E 1609298.72 ft  
Station: 186+50 Offset: -12.00  
Ground Elevation: 860.6 ft

Type: WB Sampler: 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 45C SKID C<sub>c</sub> = Unknown

Groundwater Observations		
Date	Depth (ft)	Notes
02/01/16	10.1	W.T. after drilling
02/02/16	19.5	W.T.

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 %
		Asphalt Pavement, 0.0 ft - 0.55 ft								
		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft				48-R@5" (R)	8.9	41.2	42.1	16.7
		NXDC, Cleaned out casing, 2.5 ft - 3.0 ft								
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft				17-13-12-11 (25)	12.6	40.1	45.3	14.6
5		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft				9-7-9-17 (16)	9.7	40.7	45.9	13.4
		NXDC, Cleaned out casing, 6.5 ft - 7.0 ft								
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft				12-11-9-10 (20)	13.5	39.3	46.4	14.3
		NXDC, Cleaned out casing, 8.6 ft - 9.0 ft								
10		A-2-4, GrSa, brn-Lt/brn, Moist, Rec. = 1.1 ft				10-7-4-6 (11)	18.3	22.7	59.9	17.4
		NXDC, Cleaned out casing, 10.5 ft - 11.0 ft								
		A-1-b, GrSa, gry-brn, Moist, Rec. = 0.8 ft				3-4-10-8 (14)	16.2	38.9	45.8	15.3
		NXDC, Cleaned out casing, 12.5 ft - 13.0 ft								
		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.6 ft				2-4-5-27 (9)	11.4	53.3	36.6	10.1
15		NXDC, Cleaned out casing, 14.4 ft - 15.0 ft								
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft				15-10-4-5 (14)	16.1	34.8	49.6	15.6
		A-1-a, SaGr, Dk/brn, Moist, Rec. = 0.4 ft				3-2-4-6 (6)	15.8	50.5	36.3	13.2
		A-1-a, SaGr, Dk/gry, Moist, Rec. = 0.3 ft				6-7-2-2 (9)	17.5	64.3	26.5	9.2
20		A-1-b, SaGr, gry, Moist, Rec. = 1.2 ft				5-30-30-R@1" (60)	15.4	43.7	39.5	16.8
		Cleaned out casing, 22.5 ft - 23.0 ft								
		A-1-b, SaGr, gry, Moist, Rec. = 0.2 ft	1 (70-80)	100 (28)	3	R@3.5" (R)	12.0	53.6	29.2	17.2
25		23.3 ft - 28.3 ft, Dark gray to black, Vuggy, graphitic pyrite bearing PHYLLITE, with quartz laminae. Rust staining along joint surfaces.. Hard, Slightly weathered, Fair rock, NX, RMR=44			4					
					4					
					6					
					5					
30		28.3 ft - 33.3 ft, Dark gray to black, Graphitic pyrite bearing PHYLLITE, with quartz laminae. Solution cavity forming in calcitenodule at 29.7-29.8 feet. Scarce CaCO3 powder along joint surfaces and minor rust staining.. Hard, Slightly weathered, Fair rock, NX, RMR=49	2 (70-80)	100 (50)	11					
					4					
					5					
					4					
					4					
35		Hole stopped @ 33.3 ft								
		Remarks: Hole Collapsed at 12.4 feet. Top of Bedrock 23.3 feet.								

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 may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 JOHNSON BF 0248(7).GPJ VERMONT AOT.GDT 3/14/16