



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

BORING LOG

Boring No.: **B-102**
Page No.: 1 of 2
Pin No.: 13C268
Checked By: MLM

**WATERFORD
BF 0225(4)
VT-18 BR-7**

Boring Crew: JUDKINS, DAIGNEAULT, NIETO		Casing	Sampler	Groundwater Observations		
Date Started: 4/03/14	Date Finished: 4/04/14	Type: WB	SS	Date	Depth (ft)	Notes
VTSPG NAD83: N 680610.25 ft E 1795985.87 ft		I.D.: 4 in	1.5 in	04/03/14	7.0	End of day.
Station: 106+71	Offset: 10.00	Hammer Wt: N.A.	140 lb.	04/04/14	9.0	Before drilling.
Ground Elevation: 914.1 ft		Hammer Fall: N.A.	30 in.	04/04/14	6.6	After drilling.
		Hammer/Rod Type: Auto/AWJ				
		Rig: CME 45C SKID	CE = 1.33			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RAD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt Pavement								
		Visual Description: SiGrSa, gry, Moist, Rec. = 1.1 ft, Lab Note: Lots of Asphalt Pavement was within sample.				19-29- R@2.5" (R)	9.8			
		A-4, SaSi, Dk/brn, MTW, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample. Roller coned and cleaned out casing.				32-27- 30- R@1.0" (57)	24.6	19.0	39.9	41.1
5		Field Note: No Recovery. Appears to be sandy gravel, Roller coned and cleaned out casing.				19-17- 10-7 (27)				
		Field Note: No Recovery., Roller coned and cleaned out casing.				5-10-20- 25 (30)				
10		A-1-b, SaGr, gry, MTW, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample. Roller coned and cleaned out casing.				12-18- 19-18 (37)	12.6	50.4	32.9	16.7
		A-4, GrSaSi, tan, Moist, Rec. = 0.3 ft, Lab Note: Broken Rock was within sample. Roller coned and cleaned out casing.				26- R@5.0" (R)	10.2	28.7	30.5	40.8
		A-4, SaGrSi, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				45-21- 15-20 (36)	9.8	31.3	30.5	38.2
15		Field Note: No Recovery, NXDC, Cleaned out casing.				36-15- 40- R@2.5" (55)				
		A-4, GrSaSi, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				40-27- 36- R@1.0" (63)	9.8	22.5	35.4	42.1
20		A-4, SaSi (HP), gry, Moist, Rec. = 1.5 ft				19-25- 30- R@3.5" (55)	11.6	3.9	29.6	66.5
25		A-4, SaGrSi (HP), gry, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				22-27- 18-28 (45)	11.1	24.9	20.7	54.4

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. <<SUB>><<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.

BOC = APPROX. BOTTOM OF CULVERT



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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RAD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: NXDC, advanced casing								
30		A-4, SaGrSi (HP), gry, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				11-14- 16-17 (30)	11.9	27.5	22.2	50.3
		Field Note: NXDC, advanced casing								
35		Field Note: No Recovery				10-11- R@5.0" (R)				
		Geologist's Note: Till, (HP), NXMDC, Drill time = 3, 15, 8, 21, minutes per foot.								
40		41.0 ft - 46.0 ft, Dark gray, Slate, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 68								
		Field Note: No Recovery, NXDC, Cleaned out casing.								
45		46.0 ft - 51.0 ft, Dark gray, Slate, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 68								
		Top of Bedrock @ 41.0 ft								
50		Hole stopped @ 51.0 ft								
55		Remarks: Hole collapsed at 8.2 ft.								

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PROJECT NAME:	WATERFORD	PLOT DATE:	09/27/2017
PROJECT NUMBER:	BF 0225(4)	DRAWN BY:	A. KURDEKAR
FILE NAME:	z13c268b102.dgn	CHECKED BY:	T. LEVINS
PROJECT LEADER:	T. LEVINS	SHEET	18 OF 63
DESIGNED BY:	A. KURDEKAR		
BORING LOGS 2			

