



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

BORING LOG

Granville
 STP SCRP(13)
 VT 100 Culvert

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 16d009

Checked By: ZMH

Boring Crew: Emerson, Judkins, Nieto

Date Started: 8/18/16 Date Finished: 8/19/16

VTSPG NAD83: N 561444.57 ft E 1552978.41 ft

Station: 400+77 Offset: 14.10

Ground Elevation: 1383.0 ft

Type:	Casing	Sampler
I.D.:	WB	SS
Hammer Wt:	3 in	1.5 in
Hammer Fall:	N.A.	140 lb.
Hammer/Rod Type:	N.A.	30 in.
Rig:	Auto/AWJ	
	CME 45C SKID	C _r = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
08/19/16	12.1	W.T. after drilling
08/19/16	N/A	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.45 ft					
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft	5-6-6 (12)	9.1	45.9	41.9	12.2
		A-1-b, SaGr, Dk/gry-brn, Moist, Rec. = 1.0 ft	1-3-5-6 (8)	11.3	44.5	36.1	19.4
5		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft	4-6-6-8 (12)	9.8	46.4	41.9	11.7
		A-1-b, GrSa, gry, Moist, Rec. = 1.5 ft, Lab Notes: Pieces of wood were within sample.	6-1-2-3 (3)	33.9	37.0	45.7	17.3
		Field Note: BXDC, Cleaned out casing					
		A-1-b, GrSa, gry, Moist, Rec. = 0.4 ft	5-6-10-29 (16)	14.5	40.0	44.7	15.3
10		A-1-b, GrSa, blk-Dk/brn, Moist, Rec. = 0.7 ft	(16)	17.8	36.9	45.7	17.4
		A-1-b, GrSa, blk-Dk/brn, Moist, Rec. = 1.6 ft	24-27-20-14 (47)	15.2	42.8	43.2	14.0
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft	10-7-9-10 (16)	12.6	46.1	38.9	15.0
15		A-3, GrSa, brn, Moist, Rec. = 1.6 ft	8-5-5-10 (10)	18.9	26.5	63.0	10.5
		Field Note: BXDC, Cleaned out casing					
20		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft	9-13-16-13 (29)	11.1	56.6	30.2	13.2
		Field Note: BXDC, Cleaned out casing					
25		Field Note: No Recovery	5-12-10-9 (22)				
		Hole stopped @ 27.0 ft					
30		Remarks: Hole collapsed at 12.3 feet.					

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



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 VT 100 Culvert

Boring No.: B-102
 Page No.: 1 of 1
 Pin No.: 16d009
 Checked By: ZMH

Boring Crew: Emerson, Judkins, Nieto
 Date Started: 8/18/16 Date Finished: 8/18/16
 VTSPG NAD83: N 561411.28 ft E 1552957.33 ft
 Station: 400+45 Offset: -9.30
 Ground Elevation: 1381.3 ft

Casing: WB Sampler: SS
 I.D.: 3 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_c = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
08/18/16	12.7	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		Asphalt Pavement, 0.0 ft - 0.95 ft						
		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft	13-13-11-8 (24)	9.5	36.7	46.7	16.6	
		A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft	7-4-4-5 (8)	12.5	40.9	45.4	13.7	
5		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample	4-8-4-4 (12)	11.9	51.0	37.5	11.5	
		A-2-4, SiSa, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Some clay and pieces of wood were within sample. Sample tested non-plastic Field Note: BXDC, Cleaned out casing	1-1-1-2 (2)	16.8	16.0	57.6	26.4	
10		A-1-b, SiSaGr, gry, Moist, Rec. = 1.2 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic	3-1-3-8 (4)	16.9	42.3	37.4	20.3	
		Visual Description: Broken Rock, gry, Moist, Rec. = 0.3 ft, Lab Note: Insufficient sample size to perform grain size analysis Field Note: BXDC, Cleaned out casing	9-12-10-13 (22)	5.0				
		A-1-b, SiSaGr, Dk/brn-Lt/brn, Moist, Rec. = 1.1 ft	7-13-8-9 (21)	15.1	43.3	31.6	25.1	
15		A-1-b, SaGr, Dk/brn, Moist, Rec. = 1.0 ft	7-6-7-8 (13)	14.1	44.5	39.7	15.8	
		Field Note: BXDC, Cleaned out casing Field Note: No Recovery	6-7-7-7 (14)					
20		A-1-b, GrSa, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken rock was within sample Field Note: BXDC, Cleaned out casing	3-4-4-5 (8)	13.7	23.0	65.7	11.3	
25		Hole stopped @ 27.0 ft						
30		Remarks: Hole collapsed at 14.8 feet.						

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