



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING LOG

BRISTOL  
 BRO 1445(32)  
 TH-3 BR-31

Boring No.: B-105

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Pin No.: 05J352

Checked By: NSM

Boring Crew: PORTER, GARROW  
 Date Started: 11/01/10 Date Finished: 11/09/10  
 VTSPG NAD83: N 595148.68 ft E 1488032.02 ft  
 Station: 53+15 Offset: 0.00  
 Ground Elevation: \_\_\_\_\_

Casing: 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 55 TRACK C = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/04/10	27.4	8:00 AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.4 ft	X-6-9-9 (15)	6.6	69.9	24.4	5.7
		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Crushed Gravel	5-4-4-3 (8)				
		Field Note:, No Recovery, Roller coned through cobbles					
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	3-4-3-3 (7)	10.7	42.1	52.6	5.3
		Field Note:, No Recovery, Appears to be Gravelly Sand	3-3-3-3 (6)				
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	3-3-3-3 (6)	12.7	36.3	57.2	6.5
10		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	5-3-3-3 (6)	9.4	71.6	24.3	4.1
		A-1-a, Gr, brn, Moist, Rec. = 0.5 ft, Some drillers mud was within sample. Sample was very clean. Cored through cobbles while advancing casing.	3-3-7-5 (10)	20.0	97.9	0.5	1.6
		Field Note:, No Recovery, Cored through cobbles while advancing casing.	6-22-6-4 (28)				
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, Cored through cobbles while advancing casing.	2-2-2-4 (4)	16.7	38.2	51.8	10.0
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	3-4-4-5 (8)	17.7	22.1	70.4	7.5
20		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Cored through cobbles while advancing casing.	5-9-R@2.5" (R)	9.7	71.9	20.8	7.3
		Field Note:, Cored through cobbles & a 2' boulder while advancing casing.					
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Cored through cobbles while advancing casing.	4-38-10-10 (48)	13.8	53.8	35.0	11.2
		A-1-b, SaGr, gry-brn, Moist, Rec. = 0.8 ft	33-11-R@2.5" (R)	11.2	46.6	38.0	15.4
		Field Note:, Cored through cobbles/boulder while advancing casing.					
30		Field Note:, No Recovery, Appears to be Gravel.	6-11-7-7 (18)				
		Visual Classification, SaGr, gry-brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	10-6-6-10 (12)				
		Field Note:, Cored through cobbles while advancing casing.					
		Visual Classification, SaGr, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	6-6-5-5 (11)				
40		Field Note:, Cleaned out casing. Appears to be Gravel.					
		Visual Classification, SaGr, brn, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	20-13-8-7 (21)				
		Hole stopped @ 44.0 ft					
50		Remarks: 1. Pulled casing and changed bit at 44 feet. 2. Drilled through material that had fallen in, after pulling casing. 3. Casing broke off at 20.0 feet. 4. Set over 5' North, and started drilling a new hole (B-105B).  Lab Note: Because of poor recovery, the gradations were performed with a smaller sample size then what is required.					

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 BRISTOL BRO 1445(32).GPJ VERMONT AOT.GDT 5/31/13