



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

BORING LOG

Brattleboro Bridge #9 Replacement
 IM 091-1(65) BR 9

Boring No.: OW-2
 Page No.: 1 of 1
 Pin No.: 12a026
 Checked By: JFW

Boring Crew: Jesse McIntyre (GeoDesign), Ralph Ciccaterra (SJB)
 Date Started: 8/23/12 Date Finished: 8/23/12
 VTSPG NAD83: N 136717.00 ft E 1621716.00 ft
 Station: 570+20 Offset: 27' R
 Ground Elevation: 233.9 ft

Casing Sampler
 Type: FJ SS
 I.D.: 4 in 1.38 in
 Hammer Wt: 140 lb. 140 lb.
 Hammer Fall: 30 in. 30 in.
 Hammer/Rod Type: Auto/NWJ
 Rig: CME 550X ATV CE = 1.5

Groundwater Observations (3)		
Date	Depth (ft)	Notes
08/24/12	13.8	In well.

Depth (ft)	Strata(1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %
Top of Well Elevation: 234.6 ft								
0 - 5	X X X X X X X X X X X X	S1 (2'-4'): Loose, tan fine to coarse SAND, little Silt, little fine Gravel. (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)			10.0	22.0	59.6	18.4
5 - 10		Inferred from nearby borings B-209 and B-210 to be Silty Fine Sand.						
10 - 15		S2 (10'-12'): Loose, tan fine SAND and SILT, Rec. = 0.83 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)		4-3-5-4 (8)	21.9		59.2	40.8
15 - 20		S3 (15'-17'): Very loose, tan fine SAND, some Silt, Rec. = 1.0 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)		3-1-1-3 (2)	29.5	0.5	67.3	32.2
20 - 22		S4 (20'-22'): Medium dense, gray-brown fine SAND, little Silt, trace fine Gravel, Rec. = 0.58 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	5-6-6-7 (12)	22.4	7.2	75.5	17.3	
22 - 25		Hole stopped @ 22.0 ft No Refusal.						
25 - 30		Remarks: 1) Location and elevation shown are based on survey data provided by VHB. 2) Hammer efficiency is assumed. 3) Lab testing gradations reported are per AASHTO M145.						
30 - 35								
35 - 40								
40 - 45								
45 - 50								

Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. N Values have not been corrected for hammer energy. CE 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.

GEODESIGN BORING LOG 750-09.6 BRATTLEBORO BR 9 SEISMIC VTRANS FORMAT.GPJ VERMONT AOT.GDT 12/2/13