

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG Cavendish ER BR 0146(13) Cavendish, Vermont		Boring No.: B-3 Page No.: 1 of 1 Pin No.: 11c318 Checked By: JAG				
Boring Crew: B. DeLude (SJB), J. Gilman (GeoDesign)		Casing Sampler		Groundwater Observations*				
Date Started: 3/08/12 Date Finished: 3/08/12		Type: AUGER SS		Date	Notes			
VTSPG NAD83: N 325129.17 ft E 1615318.39 ft		I.D.: 4.25 in 1.38 in		03/08/12	13.5 Wet Sample			
Station: Not Available Offset: Not Available		Hammer Wt: N.A. 140 lb.						
Ground Elevation: 772.99 ft		Hammer Fall: N.A. 30 in.						
		Hammer/Rod Type: Auto/NWJ						
		Rig: Diedrich D-50 $C_r = 1.5$						
Depth (ft)	Strata	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		S1 (5'-7'): Loose, brown fine to coarse SAND, little Silt, moist. Rec. = 0.75 ft		3-2-2-13 (4)				
10		S2 (10'-12'): Dense, brown fine to coarse GRAVEL, some fine to coarse Sand, little Silt, moist. Angular and pulverized rock fragments in spoon tip. Rec. = 1.08 ft		8-16-29 44 (45)				
15		S3 (13.5'-15.5'): Dense, brown (and oxidized) fine to coarse GRAVEL and fine to coarse SAND, little Silt, wet. Rec. = 1.33 ft		26-15- 20-14 (35)				
		S4 (15.5'-17.5'): Similar description as S3 except medium dense. Rec. = 1.08 ft		4-8-8- 38 (26)				
20		S5 (17.5'-19.5'): Dense, brown (and oxidized) fine to coarse GRAVEL, some fine to coarse Sand, little Silt, wet. Rec. = 1.42 ft		17-20- 25-22 (45)				
		S6 (20'-22'): Dense, brown fine to coarse GRAVEL and fine to coarse SAND, little Silt, wet. Rec. = 1.25 ft		17-26- 19-56 (45)				
25		S7 (25'-27'): Very dense, brown to dark brown fine to coarse GRAVEL and fine to coarse SAND, little Silt, wet. Rec. = 2.0 ft		14-18- 50-36 (68)				
30		S8 (30'-30.33'): Refusal, brown fine to coarse GRAVEL, some fine to coarse Sand, little Silt, wet. Rec. = 0.33 ft		50/4" (R)				
35		Hole stopped @ 35.0 ft Borehole terminated due to lost auger plug in hole.						
40		Remarks: 1) Ground surface elevation and exploration location surveyed by Vermont Survey and Engineering, Inc. 2) Increased rig chatter and slow advance from 12' to 13.5' deep and 31' to 32' deep (augering through inferred cobbles). Driller lost auger plug and could not recover after advancing to 35' deep. Terminated exploration with no refusal. Set 3" I.D. PVC casing for geophysical testing to 30' deep (plus 6" bottom cap) with road box recessed slightly below roadway pavement surface. See Well Log. 4) Hammer efficiency is assumed. 5) Soil descriptions are per the Burmister Classification System based on visual observations.						
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. $C_r$ 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.								

BOTTOM OF  
ABUT. NO. 1  
EL. 762.0

ESTIMATED BOTTOM OF  
PILE AT ABUT. NO. 1  
EL. 735.0

GEODESIGN BORING LOG - NO STA - OFFSET: BRB-D4-4 CAVENDISH ER BRF 0146(13) VERMONT AOT/CR/ 5/29/13

PROJECT NAME: CAVENDISH	PLOT DATE: 7/19/2013
PROJECT NUMBER: ER BRF 0146(13)	DRAWN BY: S. MORGAN
FILE NAME: zllc318bdrbor3.dgn	CHECKED BY: T. POULIN
PROJECT LEADER: J. OLUND	SHEET 22 OF 49
DESIGNED BY: J. OLUND	
BORING LOGS 3	

