



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

BORING LOG

Clarendon BRO 1443 (48)
 Clarendon, VT

Boring No.: B-3
 Page No.: 1 of 1
 Pin No.: 12J160
 Checked By: JFW

Boring Crew: J. Leonhardt (TransTech), J. Gilman (GeoDesign)
 Date Started: 3/06/13 Date Finished: 3/07/13
 VTSPG NAD83: N 383326 ft E 1501592 ft
 Station: 12+25.5 Offset: 7LT
 Ground Elevation: 645 ft

Casing Sampler
 Type: FJ SS
 I.D.: 4 in 1.38 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/NWJ
 Rig: CME 75 TRACK $C_e = 1.43$

Groundwater Observations

Date	Depth (ft)	Notes
03/06/13	9.0	Wet sample

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5	x x	0' - 9': Inferred Sand & Gravel fill.										
10		S1 (9'-11'): Dense, mixed color fine to coarse GRAVEL, some fine to coarse Sand, trace Silt, wet. Rec. = 0.6 ft (AASHTO M145 Classification: A-1-a.)				17-22-26-25 (48)	7.9	74.8	16.1	9.1	NP	NP
15		S2 (19'-20.3'): Refusal, gray fine to coarse SAND, some Silt, some fine to coarse Gravel, wet.										
20		Rec. = 1.0 ft (AASHTO M145 Classification: A-1-b.) C1 (20.5'-25.5'): Good quality, hard, fresh, closely to moderately jointed, white-gray DOLOSTONE. Reacts to dilute HCl when powdered. Fractures typically 20 to 70 degrees from horizontal.	C1	97 (78)	6.5 6 7 6.3 6.8	55-27-57/3" (100+)	9.6	41.5	36.4	22.1	NP	NP
25		Hole stopped @ 25.5 ft										
30		Remarks: 1) Exploration location taped in the field by GeoDesign. Ground surface elevation, station, and offset shown are estimated from conceptual plans provided by VTTrans. 2) Driller used 3.25" ID HSA to advance to 5 feet deep to create pilot hole for FJ casing advance. 3) Transition between kame terrace and glacial till strata is inferred based on boring B-4. No indication of strata change was noted during borehole advance. 4) Split spoon refusal and roller bit refusal at approximately 20.3 feet deep. Driller advanced casing to approximately 20.5 feet deep prior to coring. 5) Visual soil descriptions are per the Burmister system. Lab testing gradations reported are per AASHTO M145.										
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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 750-09.10-CLARENDONBRO1443(48).GPJ VERMONT AOT.GDT 4/11/13