

Boring Crew: Leonhardt (TransTech), JDG/JFW (GeoDesign)	Type: Casing Sampler	Groundwater Observations <sup>(1)</sup>	
Date Started: 10/22/13 Date Finished: 10/24/13	I.D.: 4 in 2 in	Date	Depth (ft)
VTSPG NAD83: N 403359.36 ft E 1452541.92 ft	Hammer Wt: 140 lb. 140 lb.	10/24/13	See Remark 2
Station: 19+54 Offset: 8.30	Hammer Fall: 30 in. 30 in.		
Ground Elevation: 413.4 ft	Hammer/Rod Type: Auto/NWJ		
	Rig: GME 550X ATV C <sub>e</sub> = -1.5		

Depth (ft)	Strat <sup>(1)</sup>	CLASSIFICATION OF MATERIALS (Description)	Blow <sup>(2)</sup> (N Value) <sup>(3)</sup>	Moisture Content %	Gravel %	Sand %	Fines %	L %	P %
105		Remarks: 1. Exploration locations were taped in the field by GeoDesign. Elevations were estimated based on topographic plan provided by VHB. 2. Sample moisture descriptions may not accurately reflect in-situ conditions due to wash-drive drilling methods. Unable to discern ground water elevation due to continuously adding water to the borehole during roller bit advance. 3. Samples S2 and S4 were not sampled in accordance with ASTM D 1586 procedures (borehole was not advanced between consecutive samples). 4. Boring was drilled through 6 inch core hole (performed by VTrans 10/16/13) and depths are were measured from the bridge deck. Distance from deck to ground surface below was 13 feet. 5. At end of day on 10/22/13, borehole advanced to 41 feet deep. 6. After sampling S13 at 69' deep noted roots beginning to bind on inferred cobbles between 50' and 60' deep. Driller advanced casing to 60' deep prior to continuing with borehole advance to S14 at 79' deep. 7. At end of day on 10/23/13, borehole advanced to 91 feet deep. 8. Soil samples were tested by VTrans soil laboratory and results were transmitted to GeoDesign for incorporation into boring logs.							
110									
115									
120									
125									
130									
135									
140									
145									

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<sub>e</sub> 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 750-09.14-CASTLETON BRF 015-2(10) (SPL) VERMONT.AOT.GDT 12/4/13

PROJECT NAME: CASTLETON	PLOT DATE: 9/19/2014
PROJECT NUMBER: BRF 015-2(10)	DRAWN BY: E.A. FIALA
FILE NAME: z12b138borlog.dgn	CHECKED BY: S.E. BURBANK
PROJECT LEADER: BRF 015-2(10)	SHEET 39 OF 82
DESIGNED BY: GEODESIGN	
BORING LOGS (4 OF 4)	

