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

# BORING LOG

Barton Bridge #20
BHF 0286 (5) – TH-2 (VT-16)
GeoDesign #888-04.9

Boring No.: B-1A
Page No.: 1 of 1
Pin No.: 12j172
Checked By: JFW/DTH

Boring Crew: J.Leonhardt (QC/QA), J. Wimett (GeoDesign)
Date Started: 2/07/14 Date Finished: 2/07/14
VTSPG NAD83: N 819412.00 ft E 1723364.00 ft
Station: 12+50.5 Offset: 5.5 LT
Ground Elevation: 856 ft

| | Casing | Sampler |
|---|---|---|
| Type: | AUGER | 3" SS |
| I.D.: | 4.25 in | 2.5 in |
| Hammer Wt: | N.A. | 140 lb. |
| Hammer Fall: | N.A. | 30 in. |
| Hammer/Rod Type: | | Auto/AWJ |
| Rig: | CME 550X ATV | CE = 1.4 |

Groundwater Observations (3)

| Date | Depth (ft) | Notes |
|---|---|---|
| 02/08/14 | 9.0 | Wet sample. |
| | | |
| | | |

| Depth (ft) | Strata(1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value)(2) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | 0.4' Asphalt | | | | | |
| | | Sand & Gravel Subbase (No Sample) | | | | | |
| | | S1) Brown with black and tan fine to coarse SAND, some fine to coarse Gravel, little Silt, frozen. Rec. = 0.75 ft | 70-94/5" | | | | |
| 5 | | S2) Gray brown to light brown fine to coarse SAND, some Silt (grading to trace Silt at bottom), little fine to coarse Gravel, trace (+) clay pipe pieces, frozen to slightly moist. Rec. = 2.0 ft | 34-42-22-16 | | | | |
| BOTTOM OF ABUT NO I<br>EL 850.00 | | S3) Brown fine to coarse SAND, some Silt, some fine to coarse Gravel, moist. Middle 4" entirely fractured rock fragments. Rec. = 1.5 ft | 5-25-36-18 | | | | |
| 10 | | S4) Dark to tan Clayey SILT and fine SAND, little (+) fine to coarse Gravel (fractured), wet. Rec. = 1.0 ft | 14-75-100/5" | | | | |
| | | Inferred Fill | | | | | |
| 15 | | S5) Very loose, dark brown SILT and fine to coarse SAND, little Organic Fibers, wet. Strong Petroleum Odor. Rec. = 1.2 ft | 1/12"-1-1 (1) | | | | |
| | | Hole stopped @ 16.0 ft | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 35 | | | | | | | |
| 40 | | | | | | | |
| 45 | | | | | | | |

Remarks:
1) Split spoon samples with the exception of S5 were taken with a 3" O.D. spoon to collect sample for resistivity testing. Sample S5 was taken with a standard 2" O.D. split spoon.
2) Heavy auger grinding and chatter noted between 9 and 11 feet deep.
3) Borehole backfilled with grout upon completion. Grout mix consisted of +/- 35 gallons water, 94 pounds Type I/II Portland Cement, 25 pounds Bentonite Powder.
4) Northing, easting, and ground surface elevation are estimated from an electronic site plan provided by TY Lin and taped measurements made from existing features in the field by GeoDesign personnel.

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 888-04.7 BARTON BR 20.GPJ VERMONT AOT.GDT 5/12/14

PROJECT NAME: BARTON VILLAGE
PROJECT NUMBER: BHF 0286(5)

T.Y.LIN INTERNATIONAL

FILE NAME: z12j172bloga.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: J. OLUND
BORING LOG 2

PLOT DATE: 7/26/2016
DRAWN BY: S. MORGAN
CHECKED BY: T. POULIN
SHEET 77 OF 110