



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

BORING LOG

Boring No.: B-102
Page No.: 1 of 2
Pin No.: 11A262
Checked By: K. Adnams

Boring Crew: M. Miasiazek, K. Owens
Date Started: 3/11/13 Date Finished: 3/12/13
VTSPG NAD83: N 618256.88 ft E 1752696.38 ft
Station: Offset:
Ground Elevation: 587.5 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.38 in
Hammer Wt: 300 lb. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Manual/NW
Rig: CME 750 ATV Mounted CE = 1.0

Groundwater Observations

| Date | Depth (ft) | Notes |
|----------|------------|------------------|
| 03/11/13 | 16.0 | During drilling. |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (lip deg.) | % Core Rec. (ROD %) | Drill Rate minutes/ft | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|--|----------------|---------------------|-----------------------|--------------------|--------------------|----------|--------|---------|
| | | | | | | | | | | |
| 0-0.8 | | Asphalt Pavement, 0.0 ft - 0.8 ft, Advance rollerbit through asphalt pavement to obtain sample at 4'. Not Sampled, Difficult rollerbit advancement 3.5 - 5.5' | | | | | | | | |
| 0.8-3.5 | | No Recovery, Rec. = 0.0 ft, Spoon bouncing | | | | 50/0" (R) | | | | |
| 3.5-5.5 | | No Recovery, Rec. = 0.0 ft, Spoon bouncing | | | | 50/1" (R) | | | | |
| 5.5-10 | | Rec. = 0.1 ft A-1-a, f.c. GRAVEL, little f.c. sand, medium compact, gray, Wet, (FILL) | | | | 13-4-10-14 (14) | | | | |
| 10-15 | | A-1-a, Similar Soil, Rec. = 0.1 ft, (FILL) | | | | 14-7-8-6 (15) | | | | |
| 15-20 | | A-1-a, f.c. GRAVEL, little f.c. sand, trace silt, loose, gray, Wet, Rec. = 0.2 ft, (FILL) | | | | 3-6-2-7 (8) | | | | |
| 20-25 | | No Recovery, Rec. = 0.0 ft A-2-4 A-2-4, f.c. SAND, Some Silt, Some f.c. Gravel, loose, brown, Moist to wet, Rec. = 0.8 ft | | | | 6-2-2-2 (4) | | | | |
| 25-27.5 | | A-2-4 A-4, Silt, Some f.c. Sand, little f.c. gravel, very compact, brn-white, Moist, Rec. = 0.5 ft, (GLACIAL TILL) | | | | 5-5-5-5 (10) | 16.0 | 22.1 | 43.0 | 34.9 |
| 27.5-30 | | A-4, Similar Soil, Rec. = 0.4 ft, (GLACIAL TILL) | | | | 22-48-30-25 (78) | | | | |
| 30-43.5 | | A-4, (GLACIAL TILL) Rollerbit and casing refusal at 27.5'. Advanced core barrel through probable boulder to advance boring. NXDC | R-1 | (0) | | 45-47-50/2" (R) | | | | |

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.



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|------------|------------|---|----------------|---------------------|-----------------------|--------------------|--------------------|----------|--------|---------|---------|
| | | | | | | | | | | | |
| 0-33.5 | | A-4, SILT, Some f.c. Sand, little f.c. gravel, very compact, brown, Moist, Rec. = 1.3 ft, (GLACIAL TILL) | | | | 22-32-30-31 (62) | | 17.1 | 12.4 | 24.8 | 62.8 |
| 33.5-33.5 | | A-4, Rec. = 0.3 ft, (GLACIAL TILL) | | | | 70/3" (R) | | | | | |
| 33.5-33.5 | | A-4, Very difficult drilling 32.5'-33.5'. Casing and rollerbit refusal at 33.5'. | | | | | | | | | |
| 33.5-38.5 | | 33.5 ft - 38.5 ft, Gry-white, Schist, Medium close fracture spacing. Hard, Moderately weathered, NXDC, Good RQD | R-2 | 98 (84) | 4.5 | | | | | | 33.5 ft |
| 38.5-43.5 | | 38.5 ft - 43.5 ft, Gry-white, Schist, Medium close fracture spacing. Hard, Moderately weathered, NXDC, Fair RQD | R-3 | 100 (72) | 4 | | | | | | |
| 43.5-45 | | Hole stopped @ 43.5 ft | | | | | | | | | |
| 45-50 | | Remarks: Project performed under CHA project No. 25047. | | | | | | | | | |

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BORING LOG 25047_RYEGATE_CULV_LOCS.GPJ VERMONT AOT.GDT 5/16/13

BORING LOG 25047_RYEGATE_CULV_LOCS.GPJ VERMONT AOT.GDT 5/16/13