



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

BORING LOG

CAMBRIDGE
BRO 1448(39)
TH-46 BR-28

Boring No.: B-103
Page No.: 1 of 2
Pin No.: 12J166
Checked By:

Boring Crew: GARROW, DAIGNEAULT, WHITLOCK
Date Started: 2/25/13 Date Finished: 2/28/13
VTSPP NAD83: N 761493.24 ft E 1545283.52 ft
Station: 24+07 Offset: -17.00
Ground Elevation: 648.64 ft

Type: WB
I.D.: 4 in
Hammer Wt: N.A.
Hammer Fall: N.A.
Hammer/Rod Type: Auto/AWJ
Rig: CME 55 TRACK
Casing: WB
Sampler: SS
Date: 02/26/13
Depth (ft): 3.4
Notes: AM
Blows/6" (N Value): 2-3-2-4 (5)
Moisture Content %: 15.9
Gravel %: 59.1
Sand %: 33.5
Fines %: 7.4
LL %: 32.0
Pl %: 0.3
4-4-4-6 (8)
15.9 59.1 33.5 7.4
2-3-3-5 (6)
32.0 0.3 4.5 95.2
1-WH-WH-1 (WH)
32.9 5.6 94.4 27 7
2-1-2-2 (3)
36.8 7.8 92.2 29 10
1-WH-1 (1)
56.9 6.1 93.9 30 9
1-3-6-3 (9)
31.2 22.1 77.9
4-5-4-4 (9)
38.4 0.1 11.3 88.6 28 9
2-2-3-3 (5)
34.5 11.7 88.3
2-2-3-3 (5)
30.1 43.2 56.8
2-3-2-2 (5)
33.0 15.2 84.8
WH-WH-WH-2 (WH)
36.0 2.0 98.0 31 4

| Groundwater Observations | | |
|--------------------------|------------|-------|
| Date | Depth (ft) | Notes |
| 02/26/13 | 3.4 | AM |
| 02/28/13 | 3.3 | AM |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. (ROD %) | Drill Rate (min/ft) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % | LL % | Pl % |
|------------|------------|---|----------------|-------------------|---------------------|--------------------|--------------------|----------|--------|---------|------|------|
| | | Field Note: Cleaned out casing | | | | | | | | | | |
| | | Field Note: No Recovery | | | | | | | | | | |
| | | Field Note: Lost Water Return at 6.0 ft. | | | | | | | | | | |
| 10 | | A-1-a, SaGr, brn, MTW, Rec. = 0.5 ft, Broken Rock was within sample. | | | | | | | | | | |
| | | Field Note: Cleaned out casing. Appears to be SaSi | | | | | | | | | | |
| | | A-4, Si, gry, MTW, Rec. = 1.2 ft, A very thin layer of Clay was noticeable. | | | | | | | | | | |
| 20 | | A-4, CISi, gry, MTW, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, CISi, gry, MTW, Rec. = 1.4 ft | | | | | | | | | | |
| 30 | | A-4, CISi, gry, MTW, Rec. = 1.6 ft, Regained Water Return at 29.0 ft. | | | | | | | | | | |
| | | A-4, SaSi, gry, MTW, Rec. = 1.5 ft | | | | | | | | | | |
| | | Field Note: Cleaned out casing. Appears to be Si Sa | | | | | | | | | | |
| 40 | | A-4, CISi, gry, MTW, Rec. = 1.2 ft | | | | | | | | | | |
| | | A-4, Si, gry, MTW, Rec. = 1.8 ft, A very thin layer of Clay was noticeable. | | | | | | | | | | |
| 50 | | A-4, SaSi, gry, MTW, Rec. = 1.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, MTW, Rec. = 1.4 ft | | | | | | | | | | |
| | | A-4, Si, gry, MTW, Rec. = 2.0 ft | | | | | | | | | | |

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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| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. (ROD %) | Drill Rate (min/ft) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % | LL % | Pl % |
|------------|------------|--|----------------|-------------------|---------------------|--------------------|--------------------|----------|--------|---------|------|------|
| | | A-4, SaSi, gry, MTW, Rec. = 2.0 ft, A very thin layer of Clay was noticeable. | | | | | | | | | | |
| 70 | | A-4, Si, gry, MTW, Rec. = 1.8 ft | | | | | | | | | | |
| | | Field Note: Cleaned out casing. Appears to be Sa Gr | | | | | | | | | | |
| 80 | | A-1-b, SiSaGr, gry, Moist, Rec. = 0.4 ft | | | | | | | | | | |
| | | Field Note: Cleaned out casing. Appears to be Sa | | | | | | | | | | |
| 90 | | Field Note: No Recovery | | | | | | | | | | |
| | | Field Note: Cleaned out casing. Appears to be Sa | | | | | | | | | | |
| | | Field Note: No Recovery | | | | | | | | | | |
| 100 | | 98.2 ft - 102.2 ft, Soft, Broken, Weathered Rock. Poor rock, NXDC | | | | | | | | | | |
| | | 102.2 ft - 107.2 ft, Silvery-green, Quartz-muscovite-chlorite Schist, Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 56 | 1 (80) | 100 (62) | 4 | 5 | | | | | | |
| | | 107.2 ft - 112.2 ft, Silvery-green, Quartz-muscovite-chlorite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 63 | 2 (80) | 100 (92) | 5 | 7 | | | | | | |
| | | Hole stopped @ 112.2 ft | | | | | | | | | | |
| | | Remarks: Ground surface elevation estimated from topographic plan. | | | | | | | | | | |

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