STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

# BORING LOG

**Weybridge-New Haven**
**BF 032-1(19)**
**VT 17 Br. #8**

Boring No.: **B-109**
Page No.: 1 of 2
Pin No.: 12b552
Checked By: END

Boring Crew: Olden, Garrow, Emerson
Date Started: 11/17/16 Date Finished: 12/02/16
VTSPG NAD83: N 579069.68 ft E 1444398.05 ft
Station: 106+38.41 Offset: -15.00
Ground Elevation: 154.5 ft

| | Casing | Sampler |
|---|---|---|
| Type: | WB | SS |
| I.D.: | 4 in | 1.5 in |
| Hammer Wt: | N.A. | 140 lb. |
| Hammer Fall: | N.A. | 30 in. |
| Hammer/Rod Type: | Auto/AWJ | |
| Rig: | CME 45C SKID | CE = 1.42 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 12/01/17 | | No W.T. to 15.5 feet |
| 12/02/17 | 19.5 | W.T. before drilling |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. % (RQD %) | Drill Rate minutes/ft | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Field Note:, Fill for drilling pad | | | | | | | | |
| | | A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft | | | | 7-4-3-3 (7) | 12.6 | 59.1 | 34.8 | 6.1 |
| 5 | | Field Note:, NXDC, Cleaned out casing | | | | | | | | |
| | | A-4, GrSaSi, brn, Moist, Rec. = 0.6 ft | | | | 4-6-2-3 (8) | 10.8 | 23.9 | 37.0 | 39.1 |
| | | A-4, SaSi, brn, Moist, Rec. = 0.4 ft | | | | 4-2-2-1 (4) | 10.7 | 16.1 | 39.0 | 44.9 |
| 10 | | Field Note:, No Recovery, Stone stuck in the end of the sampler | | | | 4-13-7-11 (20) | | | | |
| | | A-2-4, SaSiGr, brn, Moist, Rec. = 0.8 ft | | | | 11-7-13-10 (20) | 9.9 | 36.0 | 31.7 | 32.3 |
| | | Field Note:, Cobbles | | | | | | | | |
| 15 | | Field Note:, NXDC, Cleaned out casing | | | | | | | | |
| | | A-4, GrSaSi, brn, Moist, Rec. = 0.8 ft | | | | 2-2-2-2 (4) | 11.4 | 21.3 | 37.6 | 41.1 |
| | | A-4, SaSi, brn, Moist, Rec. = 1.2 ft | | | | 1-2-2-2 (4) | 13.9 | 12.6 | 39.6 | 47.8 |
| 20 | | A-2-4, GrSiSa, gry, Moist, Rec. = 0.7 ft | | | | 3-3-8-3 (11) | 14.2 | 32.0 | 35.4 | 32.6 |
| | | Field Note:, NXDC, Cleaned out casing | | | | | | | | |
| 25 | | A-2-4, SiSa, brn, Moist, Rec. = 0.3 ft | | | | 3-2-2-2 (4) | 30.5 | 14.9 | 59.4 | 25.7 |
| | | A-2-4, GrSiSa, gry, Moist, Rec. = 2.0 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic | | | | 3-4-3-1 (7) | 9.8 | 28.1 | 41.4 | 30.5 |
| 30 | | | | | | | | | | |
| | | Field Note:, No Recovery | | | | 1-5-6-8 (11) | | | | |
| 35 | | | | | | | | | | |

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<SUB>><<SUB>> is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.

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Ground Elevation: 154.5 ft

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| Hammer Wt: | N.A. | 140 lb. |
| Hammer Fall: | N.A. | 30 in. |
| Hammer/Rod Type: | Auto/AWJ | |
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| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. % (RQD %) | Drill Rate minutes/ft | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Field Note:, NXDC, Cleaned out casing | | | | | | | | |
| 40 | | A-3, Sa, blk, Moist, Rec. = 0.9 ft | | | | 7-6-5-6 (11) | 18.8 | 8.0 | 88.1 | 3.9 |
| 45 | | A-4, SiSa, gry, Moist, Rec. = 0.9 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic | | | | 13-10-11-18 (21) | 8.9 | 19.7 | 43.7 | 36.6 |
| 50 | | Field Note:, Cobbles | | | | | | | | |
| 55 | | A-3, Sa, gry, Moist, Rec. = 0.8 ft | | | | 11-17-30-28 (47) | 20.2 | 4.7 | 88.8 | 6.5 |
| | | A-4, SaGrSi, gry, Moist, Rec. = 1.0 ft, Lab Note: Some clay was within sample. Sample tested non-plastic | | | | | 7.8 | 31.6 | 28.9 | 39.5 |
| 60 | | 58.0 ft - 63.0 ft, Dark gray, DOLOMITE, with calcite veins. Sub-vertical joints at 58.4 to 59.1 feet. Calcite crystals along joint surfaces. Some joints are faded light brown/gray. Hard, Slightly weathered, Fair rock, NX, RMR=47 | 1 (60-70) | 88 (48) | 6 6 6 5 5 | Top of Bedrock @ 58.0 ft | | | | |
| 65 | | 63.0 ft - 68.0 ft, Dark gray, DOLOMITE, with calcite veins. Sub-vertical joints at 58.4 to 59.1 feet. Calcite crystals along joint surfaces. Some joints are faded light gray. Hard, Very slightly weathered, Fair rock, NX, RMR=52 | 2 (60-70) | 100 (68) | 8 9 7 7 7 | | | | | |
| | | Hole stopped @ 68.0 ft | | | | | | | | |
| 70 | | Remarks: Hole collapsed at 4.0 feet. | | | | | | | | |

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BORING LOG 2 WEYBRIDGE-NEW HAVEN BF032-1(19).GPJ VERMONT AOT.GDT 1/30/17