



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

BORING LOG

Londonderry
BF 016-1(33)
VT-11 Bridge 24

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 13b262

Checked By: MLM

Boring Crew: GARROW, NIETO

Date Started: 11/12/15 Date Finished: 11/13/15

VTSPG NAD83: N 268141.53 ft E 1548565.44 ft

Station: 14+48 Offset: -23.90

Ground Elevation: 1335.0 ft

Type: WB
I.D.: 4 in
Hammer Wt: N.A.
Hammer Fall: N.A.
Hammer/Rod Type: Auto/AWJ
Rig: CME 45C SKID C. = UNKNOWN

Casing Sampler

WB SS

4 in 1.5 in

N.A. 140 lb.

N.A. 30 in.

Auto/AWJ

CME 45C SKID C. = UNKNOWN

Groundwater Observations

| Date | Depth (ft) | Notes |
|----------|------------|---------------------|
| 11/13/15 | 6.2 | W.T. after 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 % | |
|---|------------|--|----------------|-------------------|-----------------------|--------------------------|--------------------|----------|--------|---------|------|
| 5 | | A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft, Lab Note: Grass and grass roots were within sample. | | | | 1-2-2-4 (4) | 13.3 | 28.8 | 52.4 | 18.8 | |
| | | A-1-b, GrSa, brn-white, Moist, Rec. = 0.8 ft, Lab Note: Broken rock and small pieces of wood were within sample. | | | | 1-2-9-4 (11) | 19.9 | 32.6 | 51.0 | 16.4 | |
| | | A-1-b, SiGrSa, brn-white, Moist, Rec. = 0.8 ft | | | | 1-2-6-3 (8) | 21.0 | 31.8 | 46.3 | 21.9 | |
| | | Field Note:., Cleaned out with NXDC | | | | | | | | | |
| | | A-1-b, SiSaGr, brn-gry, Moist, Rec. = 1.1 ft, Lab Note: Broken rock was within sample. | | | | | 15-9-2-R@3.5" (11) | 23.6 | 38.3 | 37.9 | 23.8 |
| 10 | | A-1-b, SaGr, gry, Moist, Rec. = 0.3 ft | | | | R@3.5" (R) | 11.3 | 46.2 | 39.7 | 14.1 | |
| | | A-1-b, SiSaGr, Lt/brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample. | | | | 37-33-R@0" (R) | 12.7 | 44.6 | 35.2 | 20.2 | |
| | | Field Note:., Cleaned out with NXDC | | | | | | | | | |
| 15 | | A-2-4, SaGrSi, Lt/brn-gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample. | | | | 12-19-19-14 (38) | 13.3 | 33.2 | 32.9 | 33.9 | |
| | | A-4, GrSaSi, Lt/brn-orange, Moist, Rec. = 1.1 ft, Lab Note: Broken rock and a thick rust colored layer were within sample. | | | | 28-22-18-20 (40) | 16.0 | 25.0 | 35.8 | 39.2 | |
| | | A-4, GrSaSi, Moist, Lab Note: Broken rock was within sample. | | | | 14-18-R@3.5" (R) | 14.9 | 24.4 | 28.3 | 47.3 | |
| | | Field Note:., Cleaned out cobbles with NXDC | | | | | | | | | |
| 20 | | A-1-a, SaGr, gry, Moist, Rec. = 0.4 ft, Lab Note: Broken rock was within sample. | | | | R@5" (R) | 9.0 | 60.6 | 25.1 | 14.3 | |
| | | | | | | | | | | | |
| 25 | | A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken rock was within sample. | | | | 32-R@2.5" (R) | 9.5 | 64.9 | 21.7 | 13.4 | |
| | | | | | | | | | | | |
| 30 | | 27.5 ft - 32.5 ft, Light gray, Gneissic biotite-muscovite-quartz SCHIST, with rare pyrite. Light brown discoloration on joints. Hard, Slightly weathered, Good rock, NX, RMR=61 | 1 (25) | 88 (65) | 3 | Top of Bedrock @ 27.5 ft | | | | | |
| | | | | | 4 | | | | | | |
| | | | | | 5 | | | | | | |
| | | | | | 4 | | | | | | |
| 35 | | 32.5 ft - 37.5 ft, Light gray, Gneissic chlorite-biotite-muscovite-quartz SCHIST, with rare pyrite. Slickensided joint at 32.9 feet. Faint brown staining on joints. Hard, Slightly weathered, Fair rock, NX, RMR=44 | 2 (20) | 96 (47) | 5 | | | | | | |
| | | | | | 6 | | | | | | |
| | | | | | 4 | | | | | | |
| | | | | | 4 | | | | | | |
| 40 | | Hole stopped @ 37.5 ft | | | 4 | | | | | | |
| | | | | | | | | | | | |
| Remarks: Hole collapsed at 7.4 feet. | | | | | | | | | | | |

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 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.

BORING LOG Z LONDONDERRY BF016-1(33).GPJ VERMONT AOT.GDI 12/27/15