



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

BORING LOG

Orleans Village
 BF 0310(7)
 Bridge 108 VT-58

Boring No.: B-202
 Page No.: 1 of 1
 Pin No.: 13j084
 Checked By: SPM

Boring Crew: Olden, Judkins, Mazzei
 Date Started: 6/08/17 Date Finished: 6/09/17
 VTSPG NAD83: N 842621.01 ft E 1717557.38 ft
 Station: 41+64.86 Offset: -44.23
 Ground Elevation: 740.3 ft

Casing: WB Sampler: 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 |
| 06/09/17 | 13.5 | 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 % |
|------------|------------|---|----------------|---------------------|-----------------------|--------------------|--------------------|----------|--------|---------|
| | | | | | | | | | | |
| | | Asphalt Pavement, 0.0 ft - 0.6 ft | | | | | | | | |
| | | Gravel, 0.6 ft - 0.97 ft | | | | | | | | |
| | | Concrete, 0.97 ft - 1.5 ft | | | | | | | | |
| | | A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft | | | | 3-2-1-1 (3) | 12.7 | 23.4 | 67.2 | 9.4 |
| 5 | | A-2-4, Sa, brn, Moist, Rec. = 1.3 ft | | | | 2-1-1-1 (2) | 10.2 | 16.0 | 73.2 | 10.8 |
| | | Field Note:, Rollercone, cleaned out casing | | | | | | | | |
| | | Field Note:, No Recovery | | | | 3-1-1-2 (2) | | | | |
| | | Field Note:, Rollercone, cleaned out casing | | | | | | | | |
| | | Field Note:, No Recovery | | | | 3-1-3-1 (4) | | | | |
| 10 | | A-4, SiSa, brn, Wet, Rec. = 1.0 ft | | | | 1-WH (0) | 44.2 | 6.1 | 56.3 | 37.6 |
| | | A-4, SiSa, brn, Moist, Rec. = 0.4 ft | | | | | 38.8 | 8.4 | 54.4 | 37.2 |
| | | A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken and weathered rock was within casing | | | | 1-1-R@6" (R) | 6.9 | 65.0 | 24.5 | 10.5 |
| | | Field Note:, NXDC, cleaned out casing | | | | | | | | |
| 15 | | 14.0 ft - 15.0 ft, Dark gray & black, Quartz rich PHYLLITE, with mineralization of sulfidic lenses that are aligned into the orientation of planar joints. Joint faces are oxidized to a bright orange/pale yellow-green. Hard, Moderately weathered, Poor rock, NX, RMR=31 | 1 (60) | 100 (0) | 7 | | | | | |
| | | 15.0 ft - 19.0 ft, Dark gray & black, Quartz rich PHYLLITE, with mineralization of sulfidic lenses that are aligned into the orientation of planar joints with quartz veins strewn throughout. Joint faces are oxidized to a bright orange/pale yellow-green. Hard, Moderately weathered, Fair rock, NX, RMR=46 | 2 (60) | 72.5 (46.6) | 5 | | | | | |
| | | | | | 5 | | | | | |
| | | | | | 6 | | | | | |
| | | | | | 11 | | | | | |
| | | 19.0 ft - 20.0 ft, Light gray-blue, Quartzose LIMESTONE, interbedded with <1 inch thick beds of phyllite bound by calcium carbonate. NX | 3 (55) | 86 (0) | 5 | | | | | |
| 20 | | 20.0 ft - 24.0 ft, Dark gray & black, Quartz rich PHYLLITE, with mineralization of sulfidic lenses that are aligned into the orientation of planar joints. Hard, Moderately weathered, Poor rock, RMR=39 | | | 3 | | | | | |
| | | | | | 12 | | | | | |
| | | | | | 5 | | | | | |
| | | | | | 11 | | | | | |
| 25 | | Hole stopped @ 24.0 ft | | | | | | | | |
| | | Remarks: 1. Sample was attempted at 14.0 feet. No penetration, no recovery. 2. Hole was sealed with bentonite/portland cement grout. | | | | | | | | |

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.

BORING LOG 2 ORLEANS VILLAGE BF0310(7).GPJ VERMONT AOT 13.DJT 7/18/17