



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

BORING LOG

RUTLAND CITY
BRF 3000(18)
TH-13 BR-14

Boring No.: B-102

Page No.: 1 of 1

Pin No.: 96J244

Checked By: CEE

Boring Crew: GARROW, SALISBURY
Date Started: 8/08/12 Date Finished: 8/09/12
VTSPG NAD83: N 399225.08 ft E 1512923.07 ft
Station: 3+92 Offset: 17.00
Ground Elevation: 529.71 ft

Casing: WB
Sampler: SS
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 TRACK CE = 1.34

Groundwater Observations

| Date | Depth (ft) | Notes |
|----------|------------|--------------------|
| 08/09/12 | 6.1 | Seated in Bedrock. |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. % (ROD %) | Drill Rate minutes/ft | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % | LL % | PI % |
|------------------------|-----------------------|---|----------------|---------------------|-----------------------|--------------------|--------------------|----------|--------|---------|------|------|
| 10 | [Diagonal Hatching] | A-4, SaSi, brn, Moist, Rec. = 0.8 ft, Roots & Leaves were within sample. | | | | 1-3-2-3 (5) | 35.3 | 13.6 | 36.7 | 49.7 | | |
| | | A-4, SaSi, brn, Moist, Rec. = 0.2 ft | | | | 2-1-1-1 (2) | 31.2 | 12.2 | 37.4 | 50.4 | | |
| | | Visual Description:, Cisi, gry-brn, Moist, Rec. = 1.3 ft, Material similar to 8-10 ft. | | | | 2-2-2-1 (3) | 36.3 | | | | | |
| | | Visual Description:, Cisi, gry, Moist, Rec. = 1.3 ft, Material similar to 8-10 ft. | | | | WH-WH-2-1 (2) | 38.0 | | | | | |
| | | A-4, Cisi, gry, MTW, Rec. = 2.0 ft | | | | WH-WH-2-1 (2) | 40.4 | 0.4 | 99.6 | 34 | 7 | |
| | | Visual Description:, SiCl, gry, Wet, Rec. = 2.0 ft, Material similar to 12-14 ft. | | | | (2) | 39.2 | | | | | |
| | | A-6, SiCl, gry, Wet, Rec. = 2.0 ft | | | | (WR) | 39.3 | 0.3 | 99.7 | 36 | 11 | |
| | | Visual Description:, SiCl, gry, Wet, Rec. = 1.8 ft, Material similar to 12-14 ft. | | | | (WH) | 40.7 | | | | | |
| | | Visual Description:, SiCl, gry, Wet, Rec. = 2.0 ft, Material similar to 18-20 ft. | | | | (WH) | 38.8 | | | | | |
| | | A-6, SiCl, gry, Wet, Rec. = 2.0 ft | | | | (WR) | 39.2 | 0.3 | 99.7 | 35 | 11 | |
| 20 | [Diagonal Hatching] | Visual Description:, SiCl, gry, Wet, Rec. = 2.0 ft, Material similar to 18-20 ft. | | | | (WH) | 38.0 | | | | | |
| | | A-6, SiCl, gry, Wet, Rec. = 2.0 ft | | | | (WR) | 46.6 | 0.2 | 99.8 | 40 | 14 | |
| | | Visual Description:, SiCl, gry, Wet, Rec. = 2.0 ft, Material similar to 22-24 ft. | | | | (WR) | 46.6 | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | (WR) | 39.1 | 1.5 | 98.5 | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| 40 | [Diagonal Hatching] | A-4, SiGr, gry, Wet, Rec. = 0.8 ft, Broken Rock was within sample. | | | | 1-1-1-1 (2) | 40.4 | 1.1 | 98.9 | | | |
| | | Field Note:, BXDC, Incompetent Fractured Rock | | | | | | | | | | |
| | | A-4, Si, gry, Wet, Rec. = 2.0 ft | | | | | | | | | | |
| 50 | [Horizontal Hatching] | 47.0 ft - 52.0 ft, Light gray, Dolomite, with closely spaced jointing. Moderately hard, Unweathered, Poor rock, BXMDC, RMR = 38 | 1 (NA) | 100 (20) | 2 3 3 4 4 | | | | | | | |
| | | 52.0 ft - 57.0 ft, Light gray, Dolomite, with closely spaced jointing. Moderately hard, Unweathered, Poor rock, BXGDC, RMR = 38 | 2 (NA) | 42 (0) | 4 7 6 6 6 | | | | | | | |
| Hole stopped @ 57.0 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.

BORING LOG 2 RUTLAND CITY BRF 3000(18).GPJ VERMONT .AOT.GDT 9/10/12