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

# BORING LOG

Huntington BRO 1445(35)

Boring No.: B-4
Page No.: 1 of 1
Pin No.: 12J162
Checked By: ASP

Boring Crew: New Hampshire Boring, Derry, NH, CBR
Date Started: 11/13/13 Date Finished: 11/13/13
VTSPG NAD83: N 1527591.25 ft E 655480.80 ft
Station: 4+66.50 Offset: 38.40R
Ground Elevation: 1087.0 ft

| | Casing | Sampler |
|---|---|---|
| Type: | WB | SS |
| I.D.: | 4.25 in | 1.38 in |
| Hammer Wt: | N.A. | N.A. |
| Hammer Fall: | N.A. | N.A. |
| Hammer/Rod Type: | Manual | |
| Rig: | CME 45C SKID | CE = 1.3 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 11/13/13 | 7.0 | ACR |
| 11/14/13 | 7.0 | 16 hrs |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Run (Dip deg.) | Core Rec. % (RQD %) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|---|---|
| | | Rec. = 1.2 ft, 0.0 ft – 0.33 ft, 4-inches topsoil | | | 2-6-8-4 (14) | 37.5 | 2.6 | 59.9 | 37.5 |
| | | A-4, SaSiGr, brn, Moist | | | | | | | |
| | | A-1-b, SaGrSi, brn, Rec. = 0.9 ft | | | 3-6-37-22 (43) | 11.6 | 40.8 | 42.8 | 16.4 |
| 5 | | A-1-a, GrSaSi, gry-brn, Rec. = 0.5 ft | | | 27-27-19-100 (46) | 7.8 | 59.4 | 25.3 | 15.3 |
| | | A-1-b, GrSaSi, gry-brn, Rec. = 0.3 ft | | | 8-17-17-34 (34) | 10.7 | 55.1 | 25.5 | 19.4 |
| | | A-1-b, GrSaSi, brn, Rec. = 1.3 ft | | | 23-35-40-100 (75) | 8.9 | 51.1 | 24.5 | 24.4 |
| 10 | | A-1-a, GrSaSi, gry-brn, Rec. = 0.5 ft | | | 22-24-33-45 (57) | 9.9 | 58.6 | 26.3 | 15.1 |
| | | A-4, SiSaGr, gry-brn, Rec. = 0.4 ft | | | 50 (50+) | 14.3 | 22.1 | 29.8 | 48.1 |
| | | A-4, SiSaGr, brn, Rec. = 0.4 ft | | | 35-50-100 (150+) | 9.7 | 24.7 | 27.3 | 48.0 |
| 15 | | A-4, SiSaGr, gry-brn, Rec. = 0.2 ft, Soil classification for this sample based on visual observation | | | 49-50 (50+) | | | | |
| | | A-1-a, GrSaSi, brn, Rec. = 0.2 ft, Probable weathered bedrock | | | 50 (50+) | 9.7 | 63.9 | 23.0 | 13.1 |
| | | 19.0 ft – 24.0 ft, Gray, greenish gray muscovite-quartz SCHIST, moderately hard, unweathered | 1 | 57 (68.4) | Top of Bedrock @ 19.0 ft | | | | |
| 20 | | | | | | | | | |
| | | 24.0 ft – 29.0 ft, Gray, greenish gray muscovite-quartz SCHIST, moderately hard, slight weathering along foliation | 2 | 46 (41.3) | | | | | |
| 25 | | | | | | | | | |
| | | Hole stopped @ 29.0 ft | | | | | | | |
| 30 | | Remarks:<br>Elevations are approximate. | | | | | | | |

ABUTMENT #2
TOP OF FOOTING
ELEV 1072.00

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. CE is an estimated value.
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.
4. Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VAOT.

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# BORING LOG

Huntington BRO 1445(35)

Boring No.: TP-1
Page No.: 1 of 1
Pin No.: 12J162
Checked By: ASP

Boring Crew: New Hampshire Boring, Derry, NH, RJF
Date Started: 12/06/13 Date Finished: 12/06/13
VTSPG NAD83: N 1527544.33 ft E 655438.91 ft
Station: 3+95.00 Offset: 22.40R
Ground Elevation: 1082.5 ft

| | Casing | Sampler |
|---|---|---|
| Type: | | |
| I.D.: | | |
| Hammer Wt: | N.A. | N.A. |
| Hammer Fall: | N.A. | N.A. |
| Hammer/Rod Type: | | |
| Rig: | KX71-3 Excavator | CE = |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 12/06/13 | | None observed |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | 0.0 ft – 0.8 ft, Topsoil/roots/organics, moist to wet | | | | | |
| | | A-4, SiSaGr, brn, trace roots, soil classification for this sample based on visual observation | | | | | |
| | | A-4, SiSaGr, olive-brn, trace weathered rock and occasional boulders ~12", soil classification for this sample based on visual observation | | | | | |
| 5 | | 5.3 ft, Apparent weathered rock | Top of Bedrock @ 5.4 ft | | | | |
| | | Hole stopped @ 5.4 ft | | | | | |
| | | Remarks:<br>Test pit excavated by New Hampshire Boring.<br>Excavator: Kubota KX71-3<br>Operator: Mike<br><br>Although water was present within excavation, there did not appear to be a static GWL encountered. Water present in excavation appeared to be from surface run-off.<br><br>Ground surface elevation at top of test pit 3.5 feet below bridge deck based on visual observation. | | | | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |

ABUTMENT #1
TOP OF FOOTING
ELEV 1079.00

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. CE is an estimated value.
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.
4. Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VAOT.

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| | |
|---|---|
| PROJECT NAME: | HUNTINGTON |
| PROJECT NUMBER: | BRO 1445(35) |
| FILE NAME: s12j162boring.dgn | PLOT DATE: 15-OCT-2015 |
| PROJECT LEADER: C. CARLSON | DRAWN BY: R. PELLETT |
| DESIGNED BY: M & R | CHECKED BY: D. PETERSON |
| BORING LOGS SHEET 2 | SHEET 15 OF 44 |