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

# BORING LOG

MARLBORO
BRF 010-1 (43)

Boring No.: B-103
Page No.: 1 of 1
Pin No.:
Checked By: LJD

Boring Crew: Geosearch, Inc. Fitchburg, MA, JE
Date Started: 8/01/12 Date Finished: 8/01/12
VTSPG NAD83: N 137706.00 ft E 1588885.00 ft
Station: 394+00 Offset: 11 RT
Ground Elevation: 1,297.0 ft. (approx)

| | Casing | Sampler |
|---|---|---|
| Type: | HW | SS |
| I.D.: | 4 in | 1.38 in |
| Hammer Wt: | 300 | 140 lb. |
| Hammer Fall: | 24 | 30 in. |
| Hammer/Rod Type: | Auto/N | |
| Rig: | CME 55 | CE = 1.3 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 08/01/12 | 10.5 | |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | Bituminous concrete, 0.0 ft – 0.5 ft | | | | | |
| | | Gravel base, 0.5 ft – 1.0 ft | | | | | |
| | | A-1-b, SaGrSi, gray, Rec. = 1.5 ft, (Fill) | 10-17-9-11 (26) | 3.7 | 41.0 | 45.2 | 13.8 |
| 5 | | A-1-b, SaGrSi, gry-brn, Rec. = 1.0 ft, (Fill) | 12-6-8-6 (14) | 11.0 | 44.0 | 44.2 | 11.8 |
| 10 | | A-1-b, GrSaSi, gry-brn, Rec. = 1.2 ft | 4-6-16-18 (22) | 10.0 | 50.6 | 34.9 | 14.5 |
| 15 | | Rec. = 1.3 ft, 15.0 ft – 17.0 ft, Highly weathered bedrock | 17-32-46-74 (78) | | | | |
| | | Hole stopped @ 19.0 ft<br>Auger refusal @ 19.0 ft | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |

AB #2
BOTTOM OF
PILE CAP
EL 1286.64

AB #2
PILE TIP
EL 1275.00

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.
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 J112530.GPJ VERMONT AOT.GDT 10/25/12

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# BORING LOG

MARLBORO
BRF 010-1 (43)

Boring No.: B-104
Page No.: 1 of 1
Pin No.:
Checked By: LJD

Boring Crew: Geosearch, Inc. Fitchburg, MA, JE
Date Started: 8/01/12 Date Finished: 8/01/12
VTSPG NAD83: N 137769.00 ft E 1588797.00 ft
Station: 393+05 Offset: 11 LT
Ground Elevation: 1,298.5 ft. (approx)

| | Casing | Sampler |
|---|---|---|
| Type: | HW | SS |
| I.D.: | 4 in | 1.38 in |
| Hammer Wt: | 300 | 140 lb. |
| Hammer Fall: | 24 | 30 in. |
| Hammer/Rod Type: | Auto/N | |
| Rig: | CME 55 | CE = 1.3 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 08/01/12 | | NE |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | Bituminous concrete, 0.0 ft – 0.5 ft | | | | | |
| | | Gravel base, 0.5 ft – 1.0 ft | | | | | |
| | | A-1-a, GrSaSi occasional cobbles/boulders, gry-brn, Rec. = 1.3 ft, (Fill) | 5-9-10-13 (19) | 1.9 | 74.7 | 15.2 | 10.1 |
| 5 | | Rec. = 0.0 ft, 5.0 ft – 6.0 ft | 39-63 | | | | |
| | | Note: Drill action suggests frequent cobbles and boulders from 4-11 feet (possible fill) | | | | | |
| 10 | | A1-b, C-F SAND, some gravel, little silt, brn, ocassional cobbles,very dense | 65/6" | | | | |
| | | Hole stopped @ 13.0 ft<br>Auger refusal @ 13.0 ft | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |

AB #1
BOTTOM OF
PILE CAP
EL 1288.16

AB #1
PILE TIP
EL 1278.16

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 J112530.GPJ VERMONT AOT.GDT 10/25/12

PROJECT NAME: MARLBORO
PROJECT NUMBER: BRF 010-1(43)

FILE NAME: sllb414bor.dgn
PROJECT LEADER: K. HIGGINS
DESIGNED BY: R. KLINEFELTER
BORING LOGS

PLOT DATE: 28-AUG-2013
DRAWN BY: K. FRIEDLAND
CHECKED BY: G. LAROCHE
SHEET 23 OF 50