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

# BORING LOG

**JAMAICA**
**STP 013-2(12)**
**VT-100 MM 3.8**

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 12B474
Checked By: MLM

Boring Crew: DAIGNEAULT, JUDKINS
Date Started: 11/05/13 Date Finished: 11/05/13
VTSPG NAD83: N 236850.73 ft E 1549245.39 ft
Station: 12+45 Offset: 8.80
Ground Elevation: 1128.03 ft

| | Casing | Sampler |
|---|---|---|
| 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 SKID | C = 1.33 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| | | No water to depth. |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/* (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | Asphalt Pavement, 0.0 ft - 0.38 ft | | | | | |
| | | A-2-4, SaSiGr, Lt/bm, Moist, Rec. = 0.6 ft | 17-23-24-18 (47) | 5.6 | 45.2 | 26.1 | 28.7 |
| | | A-2-4, SiGrSa, bm, Moist, Rec. = 1.0 ft | 12-13-10-11 (23) | 11.3 | 31.7 | 38.9 | 29.4 |
| 5 | | A-2-4, GrSiSa, bm, Moist, Rec. = 0.7 ft | 16-7-8-5 (15) | 13.6 | 22.3 | 47.7 | 30.0 |
| | | Visual Description:, Broken Rock with silt & sand, bm, Moist, Rec. = 0.3 ft, Insufficient sample for testing. | 6-7-25-R@2.5" (32) | 8.3 | | | |
| | | Lab Note, Broken Rock with sand, bm, MTW, Rec. = 0.8 ft, Lots of Broken Rock was within sample. | 17-23-10-R@1.0" (33) | 9.4 | 68.6 | 22.8 | 8.6 |
| 10 | | Lab Note, Sample was mostly Broken Rock, Lt/gry, MTW, Rec. = 0.6 ft | 44-29-12-13 (41) | 8.0 | 78.5 | 15.4 | 6.1 |
| | | A-2-4, SiGrSa, Dk/brn, MTW, Rec. = 0.4 ft | | 16.0 | 26.0 | 52.3 | 21.7 |
| | | A-1-a, SaGr, Dk/bm, MTW, Rec. = 0.7 ft, Broken Rock was within sample. | 10-11-11-17 (22) | 10.6 | 64.2 | 27.1 | 8.7 |
| 15 | | APPROXIMATE BOTTOM OF FOOTING = 1111.20' | | | | | |
| | | A-4, SaSi, gry, MTW, Rec. = 1.3 ft | 12-18-17-29 (35) | 17.0 | 6.8 | 40.8 | 52.4 |
| 20 | | | | | | | |
| | | A-4, SaSi, gry, Moist, Rec. = 1.2 ft | 36-47-R@2.5" (R) | 10.9 | 10.4 | 39.3 | 50.3 |
| 25 | | Hole stopped @ 26.2 ft | | | | | |

Remarks:
1. Lost water return at 9.0 ft.
2. Hole collapsed at 26.2 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. 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 2 JAMAICA STP 013-2(12).GPJ VERMONT AOT.GDT 11/27/13

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# BORING LOG

**JAMAICA**
**STP 013-2(12)**
**VT-100 MM 3.8**

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 12B474
Checked By: MLM

Boring Crew: DAIGNEAULT, JUDKINS
Date Started: 11/06/13 Date Finished: 11/06/13
VTSPG NAD83: N 236833.95 ft E 1549215.93 ft
Station: 12+25 Offset: -18.20
Ground Elevation: 1128.84 ft

| | Casing | Sampler |
|---|---|---|
| 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 SKID | C = 1.33 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| 11/06/13 | 8.2 | While drilling. |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/* (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Broken Rock was within sample. | 13-11-17-18 (28) | 4.5 | 58.8 | 24.6 | 16.6 |
| | | A-2-4, GrSa, brn, Moist, Rec. = 1.6 ft | 17-13-11-7 (24) | 7.6 | 25.0 | 58.3 | 16.7 |
| 5 | | Field Note:, No Recovery | R@0.0" | | | | |
| | | A-1-b, SiSaGr, bm, MTW, Rec. = 0.3 ft, Broken Rock was within sample. | 5-2-2-5 (4) | 14.4 | 42.5 | 37.4 | 20.1 |
| | | A-1-b, SiSaGr, bm, Moist, Rec. = 0.7 ft, Lots of Broken Rock was within sample. | 16-9-19-47 (28) | 8.5 | 46.1 | 29.8 | 24.1 |
| 10 | | A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Broken Rock was within sample. | 34-33-R@2.0" (R) | 8.7 | 44.9 | 38.8 | 16.3 |
| | | Visual Description:, Broken Rock with sand, gry, Moist, Rec. = 0.2 ft, Insufficient sample for testing. | R@3.5" | | | | |
| 15 | | A-4, SaSi, gry, Moist, Rec. = 0.7 ft | 8-5-4-9 (9) | 18.6 | 12.1 | 39.1 | 48.8 |
| | | APPROXIMATE BOTTOM OF FOOTING = 1113.00' | | | | | |
| | | A-4, SaSi, gry, Moist, Rec. = 1.3 ft | 12-27-31-32 (58) | 20.8 | 0.8 | 23.7 | 75.5 |
| 20 | | | R@0.0" | | | | |
| 25 | | Field Note:, No Recovery | | | | | |
| | | Hole stopped @ 25.0 ft | | | | | |

Remarks:
1. Refusal at 25.0 feet. (10 blows/no movement)

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 2 JAMAICA STP 013-2(12).GPJ VERMONT AOT.GDT 11/27/13

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# BORING LOG

**JAMAICA**
**STP 013-2(12)**
**VT-100 MM 3.8**

Boring No.: C-101
Page No.: 1 of 1
Pin No.: 12B474
Checked By: MLM

Boring Crew: DAIGNEAULT, JUDKINS
Date Started: 11/06/13 Date Finished: 11/06/13
VTSPG NAD83: N 236754.87 ft E 1549220.36 ft
Station: 11+47 Offset: -8.80
Ground Elevation: 1128.48 ft

| | Casing | Sampler |
|---|---|---|
| Type: | H.S.A. | SS |
| I.D.: | 3.25 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 | C = 1.33 |

Groundwater Observations

| Date | Depth (ft) | Notes |
|---|---|---|
| | | No water to depth. |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | Blows/* (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|---|---|---|---|---|---|---|---|
| | | Asphalt Pavement, 0.0 ft - 0.57 ft | | | | | |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.4 ft, Broken Rock was within sample. | 24-36-25-15 (61) | 3.3 | 44.2 | 37.3 | 18.5 |
| | | A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft | 15-30-11-8 (41) | 4.9 | 18.2 | 57.8 | 24.0 |
| 5 | | Hole stopped @ 5.0 ft | | | | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |

Remarks:
1. Hole did not collapse.

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 2 JAMAICA STP 013-2(12).GPJ VERMONT AOT.GDT 11/27/13

GREEN INTERNATIONAL AFFILIATES, INC.
*CIVIL AND STRUCTURAL ENGINEERS*

PROJECT NAME: JAMAICA
PROJECT NUMBER: ER STP 013-2(12)

FILE NAME: zl2b474bor.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: M. BRADLEY
BORING LOG SHEET 1

PLOT DATE: 02/27/2015
DRAWN BY: M. BRADLEY
CHECKED BY: E. ATKINS
SHEET 10 OF 48