



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

BORING NUMBER: B-101
 SHEET 1 of 1
 DATE STARTED: 4/17/09
 DATE COMPLETED: 4/23/09

PROJECT NAME: MENDON
 SITE NAME: TH-7
 STATION: 11+77
 OFFSET: -15.30
 VTSPG NAD83: N 418321.96 ft E 1541456.33 ft

PROJECT NUMBER: BRO 1443(43)
 SITE NUMBER: BR-2
 GROUND ELEVATION: 1000.51 ft
 GROUNDWATER DEPTH: 6.8 ft 4/23/09
 PROJECT PIN NUMBER: 01J272

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

| DEPTH (ft) | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. (%) | GRAVEL (%) | SAND (%) | FINES (%) |
|------------|--------|---|----------------|----------|------------|----------|-----------|
| | | A-2-4, SiSa, brn, Moist, Rec. = 0.6 ft | 5 | 14.6 | 16.6 | 62.7 | 20.7 |
| | | No Recovery, In Roots, 2.0 ft - 4.0 ft | 3 | | | | |
| 5 | | A-2-4, Sa, brn, Wet, Rec. = 1.1 ft, BXDC, Cleaned out casing. | 3 | 34.2 | 11.5 | 71.2 | 17.3 |
| | | A-1-b, GrSa, brn, Wet, Rec. = 0.5 ft | 28 | 17.1 | 30.0 | 62.6 | 7.4 |
| | | BXDC, Cobbles, 8.0 ft - 8.6 ft | 40 | 8.2 | 43.3 | 43.7 | 13.0 |
| 10 | | A-1-b, GrSa, brn, Wet, Rec. = 0.4 ft | 7 | 15.3 | 43.0 | 49.1 | 7.9 |
| | | BXDC, Cobbles, 10.0 ft - 10.9 ft | 13 | 11.1 | 47.2 | 39.9 | 12.9 |
| | | A-1-b, GrSa, brn, Wet, Rec. = 0.9 ft, BXDC, Cleaned out casing. | 9 | 31.1 | 1.0 | 7.0 | 92.0 |
| | | A-1-b, GrSa, brn, Wet, Rec. = 0.6 ft | 9 | 26.2 | 20.4 | 2.4 | 77.2 |
| 15 | | A-4, Si, brn, Wet, Rec. = 0.5 ft | 8 | 32.3 | 0.6 | 6.5 | 92.9 |
| | | A-4, GrSi, brn, Wet, Rec. = 0.5 ft | 5 | 35.2 | 0.0 | 5.0 | 95.0 |
| 20 | | A-4, Si, brn, Wet, Rec. = 1.4 ft | | | | | |
| | | A-4, Si, brn, Wet, Rec. = 1.4 ft | 7 | | | | |
| | | No Recovery. Appears to be Silt, brn, Wet, 22.0 ft - 24.0 ft | | | | | |
| 25 | | | | | | | |
| | | A-4, SiSa, brn, Wet, Rec. = 0.2 ft, BXDC, Cleaned out casing. | 4 | 33.5 | 0.0 | 59.8 | 40.2 |
| 30 | | | | | | | |
| | | A-4, GrSaSi, brn, Moist, Rec. = 1.3 ft, Roller coned ahead. | 47 | 9.8 | 24.1 | 36.6 | 39.3 |
| 35 | | | | | | | |
| | | A-2-4, GrSiSa, brn, Moist, Rec. = 1.3 ft | 58 | 14.9 | 26.0 | 43.2 | 30.8 |
| 40 | | Hole stopped @ 38.7 ft | | | | | |
| | | DRILLER'S NOTES: 1. The casing broke off and we couldn't recover the last section. 2. Drillers set over 3.0 feet and started drilling B-101A. | | | | | |
| 45 | | | | | | | |

LOG OF BORING MENDON BRO 1443(43).GPJ VT ADT.GDT 8/10/09



STATE OF VERMONT
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 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING NUMBER: B-101A
 SHEET 1 of 1
 DATE STARTED: 4/23/09
 DATE COMPLETED: 4/30/09

PROJECT NAME: MENDON
 SITE NAME: TH-7
 STATION: 11+74
 OFFSET: -15.40
 VTSPG NAD83: N 418324.15 ft E 1541454.28 ft

PROJECT NUMBER: BRO 1443(43)
 SITE NUMBER: BR-2
 GROUND ELEVATION: 1000.51 ft
 GROUNDWATER DEPTH: 6.8 ft 4/30/09
 PROJECT PIN NUMBER: 01J272

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

| DEPTH (ft) | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. (%) | GRAVEL (%) | SAND (%) | FINES (%) |
|------------|--------|---|----------------|----------|------------|----------|-----------|
| 0.0 | | 0.0 ft - 42.0 ft, Advanced and cleaned out casing. | | | | | |
| 10 | | | | | | | |
| 20 | | | | | | | |
| 30 | | | | | | | |
| 40 | | | | | | | |
| 44.4 | | A-2-4, SaSiGr, gry, Wet, Rec. = 0.6 ft | R | 12.1 | 42.2 | 25.2 | 32.6 |
| 48.0 | | A-4, GrSaSi, gry, Wet, Rec. = 0.6 ft | R | 13.5 | 28.7 | 34.9 | 36.4 |
| 48.0 | | NXDC, Advanced and cleaned out casing, 48.0 ft | | | | | |
| 52.8 | | A-4, SaSi, brn, Moist, Rec. = 1.2 ft | 88 | 17.0 | 15.5 | 30.4 | 54.1 |
| 60.2 | | A-3, Sa, brn, Wet, Rec. = 0.2 ft, Advanced casing to 61 ft. | R | 26.8 | 1.8 | 88.0 | 10.2 |
| 64.0 | | Field Note:, Boulders | | | | | |
| 64.0 | | Hole stopped @ 64.0 ft | | | | | |

LOG OF BORING MENDON BRO 1443(43).GPJ VT AOT.GDI 8/10/09



STATE OF VERMONT
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 SUBSURFACE INFORMATION

BORING NUMBER: B-102
 SHEET 1 of 1
 DATE STARTED: 4/10/09
 DATE COMPLETED: 4/17/09

PROJECT NAME: MENDON
 SITE NAME: TH-7
 STATION: 12+14
 OFFSET: 15.00
 VTSPG NAD83: N 418289.54 ft E 1541486.54 ft

PROJECT NUMBER: BRO 1443(43)
 SITE NUMBER: BR-2
 GROUND ELEVATION: 1001.02 ft
 GROUNDWATER DEPTH: 6.5 ft 4/13/09
 PROJECT PIN NUMBER: 01J272

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

| DEPTH (ft) | SYMBOL | CLASSIFICATION OF MATERIALS (Description) | BLOWS PER FOOT | M.C. (%) | GRAVEL (%) | SAND (%) | FINES (%) |
|------------|--------|--|----------------|----------|------------|----------|-----------|
| | | A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft | 15 | 10.9 | 34.6 | 47.8 | 17.6 |
| | | A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft | R | 5.1 | 53.1 | 34.9 | 12.0 |
| | | A-1-a, SaGr, brn, Wet, Rec. = 0.5 ft | 13 | 14.0 | 53.1 | 37.3 | 9.6 |
| 10 | | No Recovery. Stones in end of sampler, 6.0 ft - 8.0 ft | 15 | | | | |
| | | No Recovery. Stones in end of sampler, 8.0 ft - 10.0 ft | 8 | | | | |
| | | No Recovery. Stones in end of sampler, 10.0 ft - 12.0 ft | 18 | | | | |
| | | A-1-b, GrSa, brn, Wet, Rec. = 1.1 ft | 29 | 15.4 | 41.0 | 43.9 | 15.1 |
| | | A-1-b, GrSa, brn, Wet, Rec. = 1.6 ft | 29 | 14.3 | 38.0 | 51.0 | 11.0 |
| 20 | | A-4, SaGrSi, brn, Wet, Rec. = 0.6 ft | 13 | 22.9 | 32.4 | 30.6 | 37.0 |
| | | A-4, GrSi, brn, MTW, Rec. = 0.3 ft | 19 | 25.6 | 24.0 | 19.1 | 56.9 |
| | | A-4, Si, brn, MTW, Rec. = 1.5 ft | 5 | 36.1 | 0.0 | 2.7 | 97.3 |
| 30 | | A-4, SaSi, brn, MTW, Rec. = 1.1 ft | 5 | 32.1 | 0.0 | 40.4 | 59.6 |
| | | A-4, SiSa, brn, Wet, Rec. = 1.2 ft | 4 | 28.0 | 0.0 | 52.2 | 47.8 |
| 40 | | Cobbles, 37.0 ft - 38.0 ft | | | | | |
| | | No Recovery. Stones in end of sampler, 38.0 ft - 38.5 ft | R | | | | |
| | | A-4, SiSa, brn, Moist, Rec. = 0.5 ft | R | 10.2 | 19.4 | 42.0 | 38.6 |
| 50 | | A-4, GrSaSi, brn, Moist, Rec. = 0.4 ft | R | 9.9 | 20.4 | 37.4 | 42.2 |
| | | A-2-4, GrSiSa, brn, Moist, Rec. = 0.7 ft, Broken rock was within sample. | R | 13.7 | 22.3 | 43.8 | 33.9 |
| | | Hole stopped @ 55.0 ft | | | | | |

LOG OF BORING MENDON BRO 1443(43) GPJ VT AOT.GDT 8/10/09