



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

BORING LOG

WESTFIELD-TROY  
 STP 2903(1)  
 VT-242

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 09C362

Checked By: MLM

Boring Crew: JUDKINS, DAIGNEAULT

Date Started: 11/12/13 Date Finished: 11/12/13

VTSPG NAD83: N 889524.99 ft E 1651684.31 ft

Station: 154+58 Offset: 13.20

Ground Elevation: 1073.8 ft

|                  |              |                       |
|------------------|--------------|-----------------------|
| 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 <sub>e</sub> = 1.33 |

Groundwater Observations

| Date     | Depth (ft) | Notes           |
|----------|------------|-----------------|
| 11/12/13 | 3.4        | While drilling. |
|          |            |                 |
|          |            |                 |

| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description)  | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
|------------|------------|--|--------------------|--------------------|----------|--------|---------|
| 5          |            | A-1-b, GrSa, Dk/brn, Moist, Rec. = 1.0 ft  | 10-8-9-9 (17)      | 10.3               | 32.4     | 54.2   | 13.4    |
|            |            | A-1-b, GrSa, Dk/brn, Moist, Rec. = 1.2 ft  | 11-11-12-10 (23)   | 10.9               | 32.6     | 54.5   | 12.9    |
|            |            | A-2-4, GrSa, Dk/brn, Moist, Rec. = 1.2 ft  | 9-11-15-5 (26)     | 19.3               | 23.9     | 59.5   | 16.6    |
|            |            | A-2-4, Sa, Dk/brn, MTW, Rec. = 2.0 ft  | 2-2-1-4 (3)        | 22.6               | 17.8     | 65.6   | 16.6    |
|            |            | Field Note: No Recovery, NXDC  | R@2.5"             |                    |          |        |         |
| 10         |            | A-2-4, SiSaGr, gry, MTW, Rec. = 1.3 ft   | 10-9-15-17 (24)    | 14.0               | 34.1     | 33.6   | 32.3    |
|            |            | A-4, GrSaSi, gry, Moist, Rec. = 1.8 ft, Broken Rock was within sample.   | 13-18-28-41 (46)   | 9.9                | 29.2     | 32.5   | 38.3    |
| 15         |            | A-4, SaSi, gry, Moist, Rec. = 1.7 ft, Broken Rock was within sample.   | 13-15-18-24 (33)   | 11.2               | 18.6     | 34.6   | 46.8    |
|            |            |  |                    |                    |          |        |         |
| 20         |            | A-4, SaSi, gry, Moist, Rec. = 1.4 ft, Broken Rock was within sample.   | 11-15-17-16 (32)   | 12.5               | 19.2     | 31.3   | 49.5    |
|            |            |  |                    |                    |          |        |         |
| 25         |            | A-4, GrSaSi, gry, Moist, Rec. = 0.4 ft   | R@5.0"             | 10.3               | 23.5     | 37.1   | 39.4    |
|            |            |  |                    |                    |          |        |         |
| 30         |            | A-4, GrSaSi, Lt/gry, Moist, Rec. = 1.4 ft, Broken Rock was within sample. Sample was dark orange in color. An area of clay was noticeable, but not enough for testing. | 14-31-R@5.0" (R)   | 12.9               | 22.6     | 38.6   | 38.8    |
|            |            | Hole stopped @ 31.4 ft   |                    |                    |          |        |         |
| 35         |            | Remarks:<br>1. Hole collapsed at 2.4 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 WESTFIELD-TROY STP 2903(1).GPJ VERMONT AOT.GDT 12/10/13



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BORING LOG

WESTFIELD-TROY  
 STP 2903(1)  
 VT-242

Boring No.: **B-102**  
 Page No.: 1 of 1  
 Pin No.: 09C362  
 Checked By: MLM

Boring Crew: JUDKINS, DAIGNEAULT  
 Date Started: 11/07/13 Date Finished: 11/07/13  
 VTSPG NAD83: N 889520.89 ft E 1651653.82 ft  
 Station: 154+37 Offset: -11.00  
 Ground Elevation: 1073.8 ft

Casing: WB Sampler: 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<sub>r</sub> = 1.33

| Groundwater Observations |            |                 |
|--------------------------|------------|-----------------|
| Date                     | Depth (ft) | Notes           |
| 11/07/13                 | 3.1        | While drilling. |
|                          |            |                 |
|                          |            |                 |

| Depth (ft)  | Strata (1) | CLASSIFICATION OF MATERIALS (Description)   | Blows/6" (N Value)   | Moisture Content % | Gravel % | Sand % | Fines % |
|-------------|------------|---|----------------------|--------------------|----------|--------|---------|
| 0.0 - 0.25  |            | Asphalt Pavement, 0.0 ft - 0.25 ft  |                      |                    |          |        |         |
| 0.25 - 0.6  |            | A-1-b, GrSa, brn, MTW, Rec. = 0.5 ft  | 15-11-9-8 (20)       | 12.6               | 38.2     | 45.0   | 16.8    |
| 0.6 - 1.0   |            | A-1-b, GrSa, brn, MTW, Rec. = 0.6 ft  | 3-3-R@1.0" (R)       | 16.1               | 33.2     | 47.5   | 19.3    |
| 1.0 - 1.6   |            | Field Note: NXDC, Cleaned out casing  |                      |                    |          |        |         |
| 1.6 - 2.5   |            | A-1-b, SaGr with a 2.0 inch core of Wood, brn, MTW, Rec. = 0.6 ft, Broken Rock was within sample.     | 10-10-8-4 (18)       | 21.1               | 44.5     | 40.9   | 14.6    |
| 2.5 - 3.4   |            | A-1-b, SaGr, Dk/brn, MTW, Rec. = 0.9 ft, Broken Rock was within sample.                               | 4-6-16-14 (22)       | 16.2               | 45.8     | 40.9   | 13.3    |
| 3.4 - 4.3   |            | A-1-a, SaGr, gry-brn, Wet, Rec. = 0.9 ft, Lots of Broken Rock was within sample.                      | 48-38-R@5.0" (R)     | 13.7               | 58.7     | 29.1   | 12.2    |
| 4.3 - 5.2   |            | Field Note: NXDC, Cleaned out casing  |                      |                    |          |        |         |
| 5.2 - 6.1   |            | A-4, GrSaSi, gry, MTW, Rec. = 1.0 ft  | 21-21-38-R@5.0" (59) | 10.9               | 20.6     | 33.6   | 45.8    |
| 6.1 - 7.3   |            | A-4, GrSaSi, gry, MTW, Rec. = 1.2 ft, Broken Rock was within sample.                                  | 13-22-21-23 (43)     | 10.6               | 20.6     | 33.8   | 45.6    |
| 7.3 - 16.8  |            |   |                      |                    |          |        |         |
| 16.8 - 20.2 |            | A-4, GrSaSi, gry, Moist, Rec. = 1.4 ft, Broken Rock was within sample.                                | 15-20-25-29 (45)     | 11.0               | 20.1     | 34.0   | 45.9    |
| 20.2 - 24.6 |            |   |                      |                    |          |        |         |
| 24.6 - 25.0 |            | A-4, SaGrSi, gry, MTW, Rec. = 0.4 ft, Broken Rock was within sample.                                  | R@5.0"               | 9.7                | 33.2     | 29.9   | 36.9    |
| 25.0 - 30.4 |            |   |                      |                    |          |        |         |
| 30.4 - 30.4 |            | Visual Description: Broken Rock with silt & sand, gry, Moist, Rec. = 0.4 ft<br>Hole stopped @ 30.4 ft | R@5.0"               | 9.0                |          |        |         |
| 30.4 - 35.0 |            | Remarks:<br>1. Hole collapsed at 16.8 ft.   |                      |                    |          |        |         |

Notes:  
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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