

| VT Trans | | STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY | | BORING LOG | | Boring No.: B-101 | | | |
|--|------------|--|-----------------------|--------------------------|--------------------|--------------------------|----------|--------|---------|
| | | LUDLOW HES SGNL(44) | | Page No.: 1 of 1 | | Pin No.: 13B020 | | | |
| | | VT-100, VT-103 TRAFFIC SIGNAL | | Checked By: MLM | | | | | |
| Boring Crew: DAIGNEAULT, GARROW, NIETO | | Casing | Sampler | Groundwater Observations | | | | | |
| Date Started: 5/21/15 Date Finished: 5/21/15 | | Type: WB | SS | Date | Depth (ft) | Notes | | | |
| VTSPG NAD83: N 335369.08 ft E 1585369.64 ft | | I.D.: 4 in | 1.5 in | | | No water to depth. | | | |
| Station: 266+71 Offset: -1.70 | | Hammer Wt: N.A. | 140 lb. | | | | | | |
| Ground Elevation: 1036.0 ft | | Hammer Fall: N.A. | 30 in. | | | | | | |
| | | Hammer/Rod Type: Auto/AWJ | | | | | | | |
| | | Rig: CME 45C TRACK | C _c = 1.34 | | | | | | |
| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | | | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
| 5 | | Asphalt Pavement, 0.0 ft - 0.2 ft | | | 6-18-22-21 | 8.3 | 40.5 | 50.3 | 9.2 |
| | | A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft | | | (40) | | | | |
| | | A-2-4, GrSa, brn, Moist, Rec. = 1.6 ft | | | 10-10-12-14 | 5.4 | 26.5 | 58.3 | 15.2 |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample. | | | 12-12-13-16 | 4.5 | 47.4 | 41.1 | 11.5 |
| | | Hole stopped @ 6.0 ft | | | | | | | |
| Notes: | | | | | | | | | |

| VT Trans | | STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY | | BORING LOG | | Boring No.: B-102 | | | |
|--|------------|---|-----------------------|--------------------------|--------------------|--------------------------|----------|--------|---------|
| | | LUDLOW HES SGNL(44) | | Page No.: 1 of 1 | | Pin No.: 13B020 | | | |
| | | VT-100, VT-103 TRAFFIC SIGNAL | | Checked By: MLM | | | | | |
| Boring Crew: DAIGNEAULT, GARROW, NIETO | | Casing | Sampler | Groundwater Observations | | | | | |
| Date Started: 5/21/15 Date Finished: 5/26/15 | | Type: WB | SS | Date | Depth (ft) | Notes | | | |
| VTSPG NAD83: N 335390.71 ft E 1585411.02 ft | | I.D.: 4 in | 1.5 in | | | No water to depth. | | | |
| Station: 266+60 Offset: 43.80 | | Hammer Wt: N.A. | 140 lb. | | | | | | |
| Ground Elevation: 1034.5 ft | | Hammer Fall: N.A. | 30 in. | | | | | | |
| | | Hammer/Rod Type: Auto/AWJ | | | | | | | |
| | | Rig: CME 45C TRACK | C _c = 1.34 | | | | | | |
| Depth (ft) | Strata (1) | CLASSIFICATION OF MATERIALS (Description) | | | Blows/6" (N Value) | Moisture Content % | Gravel % | Sand % | Fines % |
| 5 | | Asphalt Pavement, 0.0 ft - 0.6 ft | | | 23-28-15-12 | 3.1 | 54.4 | 34.6 | 11.0 |
| | | A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample. | | | (43) | | | | |
| | | A-2-4, Sa, brn, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample. | | | 10-13-16-19 | 10.6 | 19.3 | 63.8 | 16.9 |
| | | A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft, Cleaned out casing. Lab Note: Broken Rock was within sample. | | | 11-11-22-19 | 9.0 | 42.3 | 42.2 | 15.5 |
| | | A-1-b, SaGr, brn, MTW, Rec. = 1.2 ft, Cleaned out casing. Lab Note: Broken Rock was within sample. | | | 13-13-19-13 | 10.9 | 50.2 | 35.5 | 14.3 |
| | | A-1-b, SaGr, brn, MTW, Rec. = 1.4 ft, Cleaned out casing. Lab Note: Broken Rock & Weathered Rock were within sample. | | | 11-14-23-14 | 11.0 | 43.0 | 39.2 | 17.8 |
| | | Field Note: No Recovery | | | R@3.5" | | | | |
| | | Field Note: Concrete, Cleaned out casing. | | | (R) | | | | |
| | | Field Note: No Recovery | | | R@0.0" | | | | |
| | | Field Note: Pulled casing and changed bit at 16.0 ft. | | | (R) | | | | |
| | | Field Note: Cobbles, Cleaned out casing. | | | R@6.0" | | | | |
| | | Visual Description: Broken Rock, gry, Moist, Rec. = 0.3 ft | | | (R) | | | | |
| 25 | | A-1-b, SiSaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Weathered Rock was within sample and broke down during gradation. | | | 9-14-14-17 | 12.8 | 43.8 | 34.3 | 21.9 |
| | | Hole stopped @ 27.0 ft | | | | | | | |
| | | Remarks: Hole collapsed at 15.0 ft. | | | | | | | |
| Notes: | | | | | | | | | |

BORING LOG 2 LUDLOW HES SGNL(44).GPJ VERMONT AOT.GDT 6/15/15

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| PROJECT NAME: LUDLOW | PLOT DATE: 4/19/2017 |
| PROJECT NUMBER: HES SGNL(44) | DRAWN BY: M. BOGACZYK |
| FILE NAME: +13b020_bor_log.dgn | CHECKED BY: P. COBURN |
| DESIGNED BY: M. BOGACZYK | SHEET 8 OF 43 |
| BORING LOG SHEET 1 | |