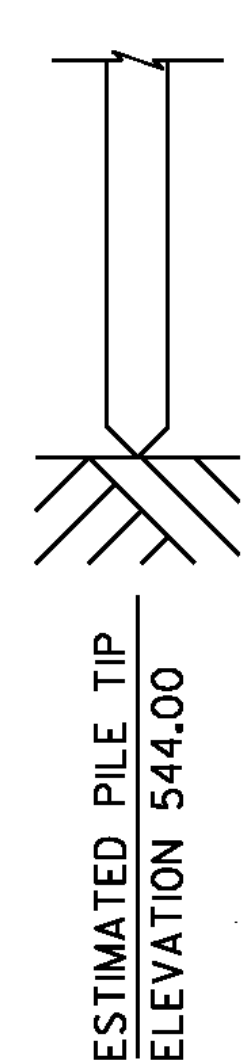


| GEODESIGN INCORPORATED | | BORING LOG | | Boring No.: B-201 | | | | |
|---|-----------------------|---|---------------------|---|------------|-------------------------|--------------------|--|
| Geotechnical Engineers and Environmental Consultants 994 Southford Road Middletown, Connecticut 06762 Telephone: 203-758-8836 Fax: 203-758-8842 | | Project Name Mount Vernon Street Bridge (BHI) Newport, Vermont | | Page No.: 4 of 6 | | | | |
| Boring Company: VTRANS Foreman: Glen Porter GeoDesign Rep.: Ray Underwood Date Started: April 18, 2008 Date Finished: April 23, 2008 N. Coordinate: E. Coordinate: Ground Surface Elevation (feet): 850.7 Station: 15+38 Offset: 7.5 ft North | | Casing: SS Sampler: SS Date: _____ Type: HWMW SS I.D.: 4.0730" in. 1.38 in. Hammer Wt.: N/A 140 lbs. 4/18/06 9.8 680.9 Hammer Fall: N/A 30 in. 4/23/06 9.8 680.9 Rig Type: CME SS Hammer Type: Auto | | Groundwater Observations Date: _____ Depth (ft): _____ Elev. (ft): _____ Notes: _____ | | | | |
| Depth (ft) | Casing Blowoff Number | Sample Information | | | | | Strata Description | Sample Description |
| | | Type | Preparation (blows) | Recovery (blows) | Depth (ft) | Blows / 6 inch Interval | | |
| | | | | | | 0-6 6-12 12-18 18-24 | | |
| 22 | SS 24 | 0 | 90.0 | 10 | 23 | 3' | 38 | Glacial (Continued) No recovery |
| 23 | SS 24 | 12 | 95.0 | | | | | Silt 595.7 Gray SILT, trace fine Sand, (moist) |
| 24 | SS 24 | 15 | 100.0 | 4 | 8 | 12 | 18 | Medium dense, gray SILT, trace fine Sand, (moist) |
| 25 | SS 24 | 22 | 106.0 | 4 | 28 | 30 | 16 | Glacial Till 596.1 Very dense, gray fine to medium SAND, little Silt, little fine to coarse Gravel, (moist) |
| 26 | SS 5 | 0 | 110.0 | 705' | | | | No recovery |
| 27 | SS 5 | 4 | 116.0 | 125 | | | | Very dense, gray fine to coarse SAND, some Silt, little fine Gravel, (moist) |

Remarks: For sample S-23 standard split spoon sampler not used. Top of glacial till inferred at approximately 102 feet due to increased drilling effort.

Notes: 1) Stratification lines represent approximate boundary between material types, transitions may be gradual. 2) Water level readings have been made at time and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After casing NR = Not Recorded. 3) Abbreviations: A = Auger; C = Core; D = Drive; G = Grub; PS = Photo Sample; SS = Split Spoon; SSL = 3.5 inch ID Split Spoon; ST = Shelby Tube; V = Vane; WGR/H = Weight of Rod/Hammer. 4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%.

Boring No.: B-201



| GEODESIGN INCORPORATED | | BORING LOG | | Boring No.: B-201 | | | | |
|---|-----------------------|---|---------------------|---|------------|-------------------------|--------------------|--|
| Geotechnical Engineers and Environmental Consultants 994 Southford Road Middletown, Connecticut 06762 Telephone: 203-758-8836 Fax: 203-758-8842 | | Project Name Mount Vernon Street Bridge (BHI) Newport, Vermont | | Page No.: 5 of 6 | | | | |
| Boring Company: VTRANS Foreman: Glen Porter GeoDesign Rep.: Ray Underwood Date Started: April 18, 2008 Date Finished: April 23, 2008 N. Coordinate: E. Coordinate: Ground Surface Elevation (feet): 890.7 Station: 15+68 Offset: 7.5 ft North | | Casing: SS Sampler: SS Date: _____ Type: HWMW SS I.D.: 4.0730" in. 1.38 in. Hammer Wt.: N/A 140 lbs. 4/18/06 9.8 680.9 Hammer Fall: N/A 30 in. 4/23/06 9.8 680.9 Rig Type: CME SS Hammer Type: Auto | | Groundwater Observations Date: _____ Depth (ft): _____ Elev. (ft): _____ Notes: _____ | | | | |
| Depth (ft) | Casing Blowoff Number | Sample Information | | | | | Strata Description | Sample Description |
| | | Type | Preparation (blows) | Recovery (blows) | Depth (ft) | Blows / 6 inch Interval | | |
| | | | | | | 0-6 6-12 12-18 18-24 | | |
| 28 | SS 4 | 0 | 123.0 | 704' | | | | Glacial Till (Continued) No recovery |
| 29 | SS 2 | 0 | 125.0 | 702' | | | | No recovery |
| 30 | SS 10 | 10 | 131.5 | 14 | 40 | 54 | | Very dense, gray SILT and fine to medium SAND, trace fine to coarse Gravel, (moist) |
| 31 | SS 14.5 | 11 | 135.0 | 20.5' | 80 | 602.3' | | Very dense, gray fine to medium SAND, some Silt, little fine Gravel, (moist) |
| 32 | SS 11 | 3 | 140.0 | 2 | 804.5' | | | Very dense, gray fine to medium SAND and SILT, trace fine Gravel |
| 33 | SS 10 | 13 | 146.0 | 17 | 80 | 803.3' | | Very dense, gray fine to medium SAND and SILT, little fine to coarse Gravel, (moist) |

Remarks: _____

Notes: 1) Stratification lines represent approximate boundary between material types, transitions may be gradual. 2) Water level readings have been made at time and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After casing NR = Not Recorded. 3) Abbreviations: A = Auger; C = Core; D = Drive; G = Grub; PS = Photo Sample; SS = Split Spoon; SSL = 3.5 inch ID Split Spoon; ST = Shelby Tube; V = Vane; WGR/H = Weight of Rod/Hammer. 4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%.

Boring No.: B-201

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|---|-----------------------|---|---------------------|---|------------|-------------------------|--------------------|--|
| Geotechnical Engineers and Environmental Consultants 994 Southford Road Middletown, Connecticut 06762 Telephone: 203-758-8836 Fax: 203-758-8842 | | Project Name Mount Vernon Street Bridge (BHI) Newport, Vermont | | Page No.: 6 of 6 | | | | |
| Boring Company: VTRANS Foreman: Glen Porter GeoDesign Rep.: Ray Underwood Date Started: April 18, 2008 Date Finished: April 23, 2008 N. Coordinate: E. Coordinate: Ground Surface Elevation (feet): 690.7 Station: 15+98 Offset: 7.5 ft North | | Casing: SS Sampler: SS Date: _____ Type: HWMW SS I.D.: 4.0730" in. 1.38 in. Hammer Wt.: N/A 140 lbs. 4/18/06 9.8 680.9 Hammer Fall: N/A 30 in. 4/23/06 9.8 680.9 Rig Type: CME SS Hammer Type: Auto | | Groundwater Observations Date: _____ Depth (ft): _____ Elev. (ft): _____ Notes: _____ | | | | |
| Depth (ft) | Casing Blowoff Number | Sample Information | | | | | Strata Description | Sample Description |
| | | Type | Preparation (blows) | Recovery (blows) | Depth (ft) | Blows / 6 inch Interval | | |
| | | | | | | 0-6 6-12 12-18 18-24 | | |
| 34 | SS 4 | 4 | 150.0 | 604' | | | | Glacial Till (Continued) Very dense, gray fine to coarse SAND, some fine Gravel, some Silt, (moist) |
| 35 | SS 5 | 2 | 155.0 | 806' | | | | Very dense, gray SILT and fine to coarse SAND, trace fine Gravel, (moist) |
| 36 | SS 7 | 2.5 | 160.5 | 51 | 631.1' | | | Very dense, gray fine to coarse SAND and SILT, some fine to coarse Gravel, (moist) |
| 37 | SS 24 | 15 | 166.0 | 174 | 35 | 47 | 80 | Very dense, gray SILT, some fine to medium Sand, trace fine Gravel, (moist) |

Remarks: Between 155 to 165 feet inferred intermittent coarse gravel and cobbles.

Notes: 1) Stratification lines represent approximate boundary between material types, transitions may be gradual. 2) Water level readings have been made at time and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. AC = After casing NR = Not Recorded. 3) Abbreviations: A = Auger; C = Core; D = Drive; G = Grub; PS = Photo Sample; SS = Split Spoon; SSL = 3.5 inch ID Split Spoon; ST = Shelby Tube; V = Vane; WGR/H = Weight of Rod/Hammer. 4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%.

Boring No.: B-201

PROJECT NAME: NEWPORT CITY
PROJECT NUMBER: BRO 1449(25)
FILE NAME: 96J314/str/96J314bor.dgn PLOT DATE: 22-NOV-2011
PROJECT LEADER: C. CARLSON DRAWN BY: J. TOUCHETTE
DESIGNED BY: C. BENDA CHECKED BY: C. BENDA
BORING LOG 6 SHEET 25 OF 75