



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

BORING NUMBER: PTWa  
SHEET 6 of 8  
DATE STARTED: 6/07/13  
DATE COMPLETED: 6/08/13

PROJECT NAME: Newport City STP 134-3(22)  
SITE NAME: Route 191 Landslide  
STATION: -  
OFFSET: -  
VTSPG: N 888334.52 ft E 1721114.01 ft

PROJECT NUMBER: GAI 133-87312  
SITE NUMBER: -  
GROUND ELEVATION: 796.58 ft  
GROUNDWATER DEPTH: 33.6 ft 6/08/13  
PROJECT PIN NUMBER: -

BORING CREW: Boart Longyear  
DRILLER: Jason Koering  
LOGGER: Helena Hollauer  
BORING RIG: 600T Sonic

BORING TYPE: Sonic  
SAMPLE TYPE: Continuous Core  
HAMMER TYPE: N/A  
CHECKED BY:

| DEPTH (ft)          | SYMBOL | CLASSIFICATION OF MATERIALS (Description)   | WELL DIAGRAM | BLOWS PER 6 IN (N VALUE) | M.C. (%) | AASHTO GRAVEL (%) | AASHTO SAND (%) | AASHTO FINES (%) |
|---------------------|--------|---|--------------|--------------------------|----------|-------------------|-----------------|------------------|
| 126.0 ft - 134.0 ft |        | A-4, brown-gray, moist, clayey SILT, trace fine sand with orange, varved silty CLAY, (ML). Some varves are concentric and folded rather than oriented near horizontal. Possible slide zone. P.P. = 1.5, 2.5, 2.5, 2.75 tsf. |              |                          |          |                   |                 |                  |
| 132.0 ft            |        | Mica flakes and mottling visible to 134 ft.   |              |                          |          |                   |                 |                  |
| 134.0 ft - 140.0 ft |        | A-4, gray-orange-brown, slightly moist, silty fine to coarse SAND, some gravel (angular weathered PHYLLITE and rounded gravel), (SM).   |              |                          |          |                   |                 |                  |
| 140.0 ft - 141.5 ft |        | Highly weathered PHYLLITE cobble, garnets weathered.  |              |                          |          |                   |                 |                  |
| 141.5 ft - 147.0 ft |        | A-4, gray-brown, slightly moist, clayey SILT, some gravel (angular, highly weathered PHYLLITE), some fine to coarse sand, (ML).   |              |                          |          |                   |                 |                  |
| 147.0 ft - 149.0 ft |        | Moderately weathered cobble, PHYLLITE.  |              |                          |          |                   |                 |                  |
| 149.0 ft - 150.0 ft |        | A-1-a, gray-brown, wet, fine SAND, little silt, trace gravel (rounded), trace clay, (SP).   |              |                          |          |                   |                 |                  |



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| 150.0 ft - 160.0 ft   |        | A-4, gray-brown, slightly moist, clayey SILT, some gravel (angular, moderately weathered PHYLLITE), little fine to coarse sand, (ML).<br>152.5 ft. Sample is dry.   |              |                          |          |                   |                 |                  |
| 160.0 ft - 162.0 ft   |        | A-6, Driller reports softer material while drilling, A-6, dark gray, moist, silty CLAY, some gravel (angular, moderately weathered PHYLLITE), little fine to coarse sand, (CL).<br>P.P. < 0.25 tsf.<br>Tv = 0.25, 0.25, 0.25, 0.25 tsf. |              |                          |          |                   |                 |                  |
| 162.0 ft - 163.0 ft   |        | Dark gray, moist, very highly weathered rock (PHYLLITE) with some rock layering/structure, Garnets weathered.   |              |                          |          |                   |                 |                  |
| 163.0 ft - 165.8 ft   |        | A-6, dark gray brown, moist, silty CLAY grading to mottled, clayey SILT, (CL). Soil becomes dark gray-black about 165.5'.<br>P.P. = 3.25, 1.5, 2.5, 2.75 tsf.<br>Tv = 0.625, 0.625, 0.625 tsf.  |              |                          |          |                   |                 |                  |
| 165.8 ft - 166.0 ft   |        | Competent rock fragments  |              |                          |          |                   |                 |                  |
| 166.0 ft - 171.0 ft   |        | Bedrock (PHYLLITE).   |              |                          |          |                   |                 |                  |
| Top of Bedrock @ 166.0 ft   |        |   |              |                          |          |                   |                 |                  |
| Hole stopped @ 171.0 ft   |        |   |              |                          |          |                   |                 |                  |
| <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- 6" casing with continuous 4" core barrel sampling used in exploration.</li> <li>- Entire hole was over-cored using 8" casing and 6" core barrel to install monitoring well.</li> <li>- 4" well screen set 135 to 140 ft. Sand pack from 132 to 141 ft. Bentonite chips from 128.5 to 132. Grout from 128.5 ft to</li> </ul> |        |   |              |                          |          |                   |                 |                  |



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|---|--------|---|--------------|--------------------------|----------|-------------------|-----------------|------------------|
| ground surface. Boring below 141 ft backfilled with bentonite chips.<br>- Densities indicated in soil descriptions are based on adjacent SPT values and field experience. |        |   |              |                          |          |                   |                 |                  |