



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

**BORING LOG**  
**St. Johnsbury**  
**BRO 1447(30)**  
**TH 371, Bridge #46 Over Sleepers River**

Boring No.: B-3  
Page No.: 1 of 2  
Pin No.: 12J164  
Checked By: TAD

Boring Crew: NH Boring, Derry, NH, Burke (Stantec)  
Date Started: 12/06/13 Date Finished: 12/06/13  
VTSPG NAD83: N 696241.43 ft E 1766306.51 ft  
Station: 16+36.69 Offset: 38.53 RT  
Ground Elevation: 553.0 ft

Casing Sampler  
Type: WASH BORE SS  
I.D.: 4 in 1.38 in  
Hammer Wt: 300 lb. 140 lb.  
Hammer Fall: 24 in 30 in.  
Hammer/Rod Type: Safety/N  
Rig: N.H. BORING - Truck C = 1

Groundwater Observations		
Date	Depth (ft)	Notes
12/06/13	9.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Not Sampled, 12 inches of crushed stone for parking area, Dry					
		Visual Classification, Sa, tan, Moist, Rec. = 1.2 ft, PID = 0 ppm	12-13-13-15 (26)				
		Visual Classification, Sa, brn, Moist, Rec. = 0.8 ft, PID = 0.1 ppm (3-4 ft) and 5.2 ppm (3-4 ft)	52-39-27-21 (66)				
		Visual Classification, Sa, red-brn, Moist, Rec. = 1.2 ft, PID = 6.2 ppm (4-5 ft) and 5.2 ppm (5-6 ft)	18-22-20-35 (42)				
10		A-3, Sa, red-brn, Moist, Rec. = 0.8 ft, PID = 14.8 ppm (6-7 ft) and 15.2 ppm (7-8 ft)	18-16-12-7 (28)	9.9	2.0	89.0	9.0
		Visual Classification, SiSa, brn, Wet, Rec. = 1.0 ft, PID = 15.9 ppm (8-9 ft) and 16.5 ppm (9-10 ft)	17-23-25-25 (48)				
15		Visual Classification, SiSa, Dk/gry, Wet, Rec. = 1.5 ft, Strong petroleum odor, PID = 65.2 ppm (14-15 ft) and 62.2 ppm (15-16 ft)	3-2-1-2 (3)				
20		Visual Classification, Sa, Dk/gry, Wet, Rec. = 1.3 ft, Petroleum odor, PID = 3.2 ppm (19-20 ft) and 0.8 ppm (20-21 ft), Organic Content = 6.4%	5-5-7-8 (12)	78.3			
25		Visual Classification, SaSi, brn-gry, Wet, Rec. = 1.5 ft	6-8-11-11 (19)				
30		A-2-4, Sa, Lt/brn, Wet, Rec. = 1.2 ft	11-13-17-11 (30)	24.7		82.0	18.0
35		Visual Classification, Sa, brn, Wet, Rec. = 1.7 ft	5-10-11-12 (21)				
		Visual Classification, SaSi, Lt/brn, Wet, Rec. = 1.2 ft	19-24-				

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 of groundwater may occur due to other factors than those present at the time measurements were made.



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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
45			34-15 (58)				
		Visual Classification, Sa, brn, Wet, Rec. = 1.5 ft	18-26-22-29 (48)				
		Visual Classification, Sa, brn, Wet, Rec. = 1.5 ft	14-18-29-32 (47)				
50							
		Hole stopped @ 51.0 ft					
55		Remarks: No refusal.					
60							
65							
70							
75							

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