

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102			
		WINHALL STP CULV (31) Bridge 52		Page No.: 1 of 2			
				Pin No.: 11b268			
				Checked By: J. MacGregor			
Boring Crew: J. Leonhardt, K. Owens		Casing Sampler		Groundwater Observations			
Date Started: 9/21/12 Date Finished: 9/21/12		Type: WASH BORE SS		Date Depth Notes			
VTSPG NAD83: N 257343.66 ft E 1517727.78 ft		I.D.: 4 in 1.38 in		09/21/12 11.0			
Station: 41+77 Offset: 13.7E		Hammer Wt: 140 lb. 140 lb.					
Ground Elevation: 1933.5 ft		Hammer Fall: 30 in. 30 in.					
		Hammer/Rod Type: Auto/NWJ					
		Rig: CME 75 ATV Mounted CE = 1.4					
Depth (ft)	Strata (1)	Classification of Materials (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0		0.0 ft - 0.5 ft, Augered through asphalt pavement.					
2.5		A-1-b, f.m.c. SAND, Some f.c. Gravel, trace silt, compact, brown/gray, Moist, Rec. = 0.4 ft, Fill	11-16-18 (34)				
5.0		A-2-4, f.m.c. SAND, Some Silt, Some f.c. Gravel, medium compact, Dark brown, MTW, Rec. = 0.5 ft, Fill	7-6-8-9 (14)	14.3	29.7	36.8	33.5
10.0		A-4, SILT, Some f.m.c. Sand, little f.c. gravel, trace organics, stiff, brown/gray, MTW, Rec. = 0.4 ft, Fill	6-2-12-4 (14)				
12.5		A-2-4, f.m.c. SAND, Some Silt, Some f.c. Gravel, trace f. gravel, compact, gray, Wet, Rec. = 1.3 ft	11-15-19-39 (34)	12.0	28.4	36.9	34.7
15.0		A-2-4, Similar Soil, Rec. = 1.1 ft	26-24-24-24 (48)	12.5	35.4	40.1	24.5
20.0		A-2-4, Similar Soil, Rec. = 6.0 ft	32-26-20-15 (46)				
22.5		A-2-4, f.m.c. SAND, Some Silt, little f.c. gravel, very compact, brown, Wet, Rec. = 0.6 ft	36-37-27-21				
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE 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.							

BOTTOM OF CULVERT  
APPROX. EL. 1920.25

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Depth (ft)	Strata (1)	Classification of Materials (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
27.5			(64)				
30.0		A-2-4, becomes compact, Rec. = 0.9 ft	26-19-21-54 (40)				
32.5							
35.0		A-2-4, becomes very compact, Rec. = 1.0 ft	86-100-60-64 (160)				
35.0		A-4, SILT, little f.m.c. sand, very compact, brown, Wet					
Hole stopped @ 36.0 ft							
Remarks: Groundwater observations made during drilling may not represent static conditions. Rollerbit grinding at 3'. Hard difficult drilling 14' to completion.							
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PROJECT NAME: WINHALL  
PROJECT NUMBER: STP CULV(31)

FILE NAME: z11b268bor\_log\_br52.dgn PLOT DATE: 9/25/2014  
PROJECT LEADER: M. CHENETTE DRAWN BY: L. BUXTON  
DESIGNED BY: VTRANS CHECKED BY: VTRANS  
BORING LOG 2 - BR52 SHEET 46 OF 60

