



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

BORING LOG

Culvert Replacement
 Bridge 24
 Thetford STP CULV (48)

Boring No.: B-102
 Page No.: 1 of 1
 Pin No.: 13c348
 Checked By: _____

Boring Crew: J. Leonhardt, K. Owens
 Date Started: 4/08/15 Date Finished: 4/09/15
 VTSPG NAD83: N 509266.55 ft E 1703267.24 ft
 Station: T0+27 Offset: 33R
 Ground Elevation: 719.0 ft

Casing Sampler
 Type: FJC SS
 I.D.: 3 in 1.38 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/NW
 Rig: CME 550 TRACK CE = 1.4

Groundwater Observations		
Date	Depth (ft)	Notes
04/09/15	13.0	During drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 4.0		0.0 ft - 4.0 ft, Boring advanced to 4' for first sample.					
5	x x x	(FILL), f.c. SAND, Some f.c. Gravel, little silt, dense, brown, Wet, Rec. = 0.9 ft, (FILL)	7-18-12-11 (30)	15.7	29.8	50.7	19.5
7.0 - 8.0	x x x	(FILL), f.c. GRAVEL, little f.c. sand, trace silt, very dense, gray, Moist, Rec. = 0.1 ft, F.c. gravel primarily comprised of cobble/boulder fragments.	100/5" (R)				
15		A-1-b A-1-b, f.c. SAND, AND f.c. GRAVEL, little silt, very dense, brown, Wet, Rec. = 1.4 ft A-1-b, <u>Similar Soil</u> , Rec. = 1.1 ft A-1-b, <u>Similar Soil</u> , Rec. = 0.9 ft	54-80-94-100/4" (174) 17-49-42-85 (91) 33-51-102 (R)	10.3	38.8	45.5	15.7
20		A-4, SILT, Some f.c. Sand, Some f.c. Gravel, very dense, brown, Moist, Rec. = 0.8 ft, Non-plastic.	22-49-61-100/1" (R)	18.3	20.9	33.1	46.0
25		A-1-b A-1-b, f.c. SAND, little silt, little f.c. gravel, very dense, brown, Moist, Rec. = 1.2 ft	34-61-75-105 (136)				
30		A-1-b, f.c. SAND, AND f.c. GRAVEL, little silt, very dense, brown, Wet, Rec. = 0.8 ft, C. gravel in shoe of spoon.	81-100/4" (R)				
35		A-1-b, <u>Similar Soil</u> , Rec. = 1.2 ft	42-57-62-95 (119)	8.4	40.4	46.1	13.5
40		A-2-4 A-2-4, Rec. = 0.4 ft, grades to Some Silt, little f.c. gravel	68-100 (R)				
		Hole stopped @ 39.0 ft					
		Remarks: Boulders & cobbles likely encountered throughout boring advancement.					

BORING LOG 29928 THETFORD STP CULV (48) LOGS.GPJ VERMONT AOT.GDT 5/7/15

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.