

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-210		
		Drottchboro Bridge #9 Replacement M 091-1(65) BR 9		Page No.: 1 of 3		Pin No.: 120226		
		Checked By: JMG						
Boring Crew: A. Leonhardt (TransTech), B. Marshall (GeoDesign)		Type: FJ SS		Groundwater Observations (3)				
Date Started: 3/27/12 Date Finished: 3/28/12		L.O.: 4 in. 1.38 in.		Date Depth (ft)		Notes		
YSPG HADBS: N 156689.00 ft E 1621703.00 ft		Hammer Wt: 140 lb. 140 lb.		03/27/12 4.8 in casing.				
Station: 568+92 Offset: 37' R		Hammer/Fall: 30 in. 30 in.						
Ground Elevation: 224 ft		Hammer/Rod Type: Auto/AWI						
		Rtg: CME 75 TRACK CE = 1.43						
Depth (ft)	Strat (ft)	CLASSIFICATION OF MATERIALS (Description)	Pen. (lb/ft)	Core Rec. (ft)	Core Int. (ft)	Dist. from Int. (ft)	Pen. (ft)	Notes
5		S1) Very loose, Top 2" topsoil. Bottom 7": Brown fine to medium SAND, trace (+) SILT. (SILTY SAND) Rec. = 0.8 ft (AASHTO M145 Classification: A-4) (AASHTO M145 Classification: Visual Description (Burmister).)	1-1-2	23.7	2.1	57.8	40.0	
5		S2) Loose, brown fine SAND, little SILT. With gray staining near bottom of sample. (SILTY SAND) Rec. = 0.3 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	3-2-3	21.0	10.9	61.8	27.3	
10		S3) Loose, brown fine SAND, little SILT. (SILTY SAND) Rec. = 0.4 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	3-2-1	22.7	6.0	68.4	24.6	
15		S4) Loose, brown fine SAND, little SILT. (SILTY SAND) Rec. = 0.5 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	2-2-4	28.0	0.3	87.4	12.3	
20		S5) Medium dense, brown fine to medium SAND, trace SILT. (SILTY SAND) Rec. = 0.7 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)	9-7-7-9	15.4	20.1	65.7	14.2	
25		Inferred transition from Silty Sand to Silty Gravelly Sand between 23' and 24.5'. (AASHTO M145 Classification: Field Note.)						
25		S6) Medium dense, brown fine to medium SAND, little fine to coarse Gravel, little SILT. (SILTY GRAVELLY SAND) Rec. = 0.3 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	3-4-6-6	23.4		63.8	16.2	
25		Inferred transition from Silty Gravelly Sand to Silty Sand between 24.5' and 28'. (AASHTO M145 Classification: Field Note.)						
25		S7) Medium dense, brown fine SAND, little SILT. (SILTY SAND) Rec. =	2-6-9-12	24.3	0.4	81.7	17.9	

1. Stratification lines represent approximate boundary between material types. Locations may be graded.
 2. If Yellow lines have been searched for hammer energy, CE is the hammer energy correction factor.
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35		1.4 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)					(15)	
35		S8) Loose, gray brown fine SAND, little SILT, med. (SILTY SAND) Rec. = 1.5 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	2-3-4-5	18.1	29.2	45.0	25.8	
40		S9) Similar description as S8 except medium dense and wet. (SILTY SAND) Rec. = 1.7 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	2-5-7-10	25.1		86.6	13.4	
45		S10) Medium dense, gray brown fine SAND, trace to little SILT, wet. (SILTY SAND) Rec. = 1.7 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	3-4-8-10	23.7		85.4	14.6	
50		S11) Medium dense, gray brown fine SAND, little SILT, wet. (SILTY SAND) Rec. = 2.0 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	2-6-8-10	22.3	0.3	74.7	25.0	
55		S12) Medium dense, gray brown fine to medium SAND, little SILT, trace fine Gravel; decomposed silted near vertical bedding bottom 1" of sample. (SILTY SAND) Rec. = 1.3 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	10-12-2-3	14.7	24.7	54.2	21.1	
55		C1) Very poor quality, hard, moderately weathered, fissured to closely jointed, gray with white banding and orange weathering in joints. PHYLLITE with white Quartzite intrusions. Fractured surfaces show some schistosity. Jointing near 60 degrees from horizontal. No reaction to dilute HCl.	C1	92	5			Top of Bedrock @ 60.0 ft
55		C2) Very poor quality, hard, moderately weathered, shelled to closely jointed, gray with white banding and orange weathering in joints. PHYLLITE with white Quartzite intrusions. Fractured surfaces show some schistosity. Jointing near 60 degrees from horizontal. No reaction to dilute HCl.	C2	108	5			

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65		Jointed, gray with white banding and orange weathering in joints PHYLLITE with white Quartzite from 58 to 60 feet. Fractured surfaces show some schistosity. Jointing at ~40 to 50 degrees from horizontal. No reaction to dilute HCl.						
65		C3) Fair quality, Upper 18": Hard, slightly weathered, very closely to moderately jointed, gray with white banding and orange weathering in joints PHYLLITE. Jointing ~40 degrees from horizontal. No reaction to dilute HCl. Lower 38": Hard, fresh, moderately jointed, gray with white banding LIMESTONE. Jointing ~20 to 30 degrees from horizontal. Strong reaction to dilute HCl.		C3	83	7		
65		C4) Good quality, Upper 13": White QUARTZITE. 13" to 19": Hard, moderately weathered, very closely jointed, gray with white PHYLLITE. Jointing at ~40 degrees from horizontal. 19" to 26": Hard, fresh, closely jointed, gray with white banding LIMESTONE 28" to 60": Hard, moderately weathered, moderately jointed to fissured, gray with white banding PHYLLITE. Occasionally interbedded with Limestone (1/2" thick beds). Jointing at ~40 degrees from horizontal. Strong reaction to dilute HCl on Limestone beds.		C4	100	5		
70		Hole stopped @ 71.0 ft						
75								
80								
85								

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