

BORING LOG INFORMATION

SB-5

SB-5 (CONT.)

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STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: SB-5				
Windsor IM 091-1 (64) I-91 Bridges 33N & 33S		Page No.: 1 of 3		Pin No.:				
Checked By: TT		Type: WB SS		Groundwater Observations				
Boring Crew: B. Thompson, NHB, T. Telesco, JEG		Casing Sampler		Date Depth Notes				
Date Started: 1/14/13 Date Finished: 1/17/13		I.D.: 4 in 1.38 in		Date Depth Notes				
VTSPG NAD83: N 347177.71 ft E 1665124.50 ft		Hammer Wt: 300 lb 140 lb		01/15/13 Dry to 70 ft				
Station: 2920+33.67 Offset: RT 40.90' I-91 SB		Hammer Fall: 30 in 30 in		01/17/13 86.0 Settled since 1/15				
Ground Elevation: 480.22 ft		Hammer/Rod Type: Auto		Rig: CME-550X C _u = 1.2				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows ¹ (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
3-6.7-6 (16)	S-1: WELL GRADED SAND w/ GRAVEL; fine to coarse sand, some subangular gravel, moist, medium dense, dark gray, top 6" is silty topsoil, FILL, Rec. = 1.33 ft, 0.0 ft - 2.0 ft			19-23 (35)				
5	S-2: WELL GRADED SAND w/ GRAVEL; fine to coarse sand, some fine subangular gravel, moist, medium dense, dark gray/brown, FILL, Rec. = 0.83 ft, 4.0 ft - 8.0 ft			18-21-29-30 (50)				
10	S-3: POORLY GRADED SAND w/ GRAVEL; coarse sand, little fine angular to subangular gravel, wet, medium dense, dark gray, FILL, Rec. = 0.75 ft, 9.0 ft - 11.0 ft			23-29-34 (57)				
15	S-4: WELL GRADED SAND w/ GRAVEL; fine to coarse sand, some fine to coarse subangular gravel, cobbles, wet, very dense, dark brown, FILL, Rec. = 1.0 ft, 14.0 ft - 16.0 ft			8-9-10-12 (18)				
20	S-5: WELL GRADED SAND; fine to coarse sand, trace fine gravel, moist, dense, brown, FILL, Rec. = 1.17 ft, 19.0 ft - 21.0 ft			18-20-19-16 (39)				
25	S-6: (0-5") WELL GRADED SAND; fine to coarse sand, trace fine gravel, moist, medium dense, brown, (5-10") POORLY GRADED SAND; fine sand, moist, medium dense, brown, FILL, Rec. = 0.83 ft, 24.0 ft - 26.0 ft START USING DRILLING MUD, 27.0 ft			12-13-14-14 (27)				
30	S-7: WELL GRADED SAND w/ GRAVEL; fine to coarse sand, some fine to coarse subangular gravel, trace silt, cobbles, wet, dense, brown, FILL, Rec. = 1.17 ft, 29.0 ft - 31.0 ft			12-16-19-8 (35)				
35	S-8: POORLY GRADED SAND; fine sand, trace silt, moist, medium dense, brown, FILL, Rec. = 1.25 ft, 34.0 ft - 36.0 ft			31-34-42-51 (78)				
40	S-9: POORLY GRADED SAND; mostly fine sand, trace coarse sand, trace fine gravel, moist, medium dense, brown, FILL, Rec. = 1.33 ft, 39.0 ft - 41.0 ft			31-27-81-85 (108)				
45	S-10: POORLY GRADED SAND; fine sand, moist, dense, brown, FILL, Rec. = 1.17 ft, 44.0 ft - 46.0 ft			35-33-21-17 (84)				
	S-11: POORLY GRADED SAND; fine sand, trace silt, moist, dense, brown, FILL, Rec. = 13-16-			17-16-				

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_u 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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55	S-12: POORLY GRADED SAND; fine sand, moist, dense, brown, FILL, Rec. = 0.92 ft, 54.0 ft - 56.0 ft (Continued on 1/15/13), 52.0 ft (Attempt to advance boring open hole), 57.0 ft			18-21-29-30 (50)				
60	S-13: POORLY GRADED SAND; medium sand, wet, very dense, brown, FILL, Rec. = 1.42 ft, 59.0 ft - 61.0 ft			23-29-34 (57)				
65	S-14: POORLY GRADED SAND; fine sand, lenses of medium sand, wet, medium dense, brown, FILL, Rec. = 1.0 ft, 64.0 ft - 66.0 ft			8-9-10-12 (18)				
70	S-15: POORLY GRADED SAND; fine sand, trace medium sand, wet, dense, brown, FILL, Rec. = 1.42 ft, 69.0 ft - 71.0 ft			18-20-19-16 (39)				
75	S-16: POORLY GRADED SAND; fine sand, trace medium sand, wet, medium dense, brown, FILL, Rec. = 1.0 ft, 74.0 ft - 76.0 ft (Complete loss of drilling water; advance casing; Cobbles encountered 76-79 ft), 77.0 ft			18-16-14-11 (30)				
80	S-17: POORLY GRADED SAND; fine sand, spoon contains pieces of fractured cobbles, moist, dense, brown, FILL, Rec. = 0.83 ft, 79.0 ft - 81.0 ft			12-16-19-8 (35)				
85	S-18: POORLY GRADED SAND; fine to medium sand, trace coarse sand, moist, very dense, brown, Rec. = 1.0 ft, 84.0 ft - 86.0 ft			31-34-42-51 (78)				
90	S-19: WELL GRADED GRAVEL w/ SAND; fine to coarse subangular gravel, some fine to coarse sand, wet, very dense, dark brown, Rec. = 1.0 ft, 89.0 ft - 91.0 ft (Casing breaks at 89 ft; continue open hole), 92.0 ft			31-27-81-85 (108)				
95	S-20: POORLY GRADED SAND; fine sand, trace medium and coarse sand, top 3" contains fractured rock, possible cobbles, wet, very dense, brown, Rec. = 0.83 ft, 94.0 ft - 96.0 ft			35-33-21-17 (84)				
	S-21: POORLY GRADED SAND; fine to medium sand, trace coarse sand, trace silt, wet,			17-16-				

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105	S-22: WELL GRADED SAND; fine to coarse sand, little fine subrounded to rounded gravel, wet, very dense, dark brown, Rec. = 1.33 ft, 104.0 ft - 106.0 ft			15-16 (31)				
110	S-23: POORLY GRADED SAND; fine sand, trace coarse sand, trace silt, wet, dense, dark brown, Rec. = 1.17 ft, 109.0 ft - 111.0 ft Hole stopped @ 111.0 ft			27-28-28-20 (56)				
115				21-23-22-25 (45)				

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PROJECT NAME: WINDSOR
PROJECT NUMBER: IM 091-1(64)

FILE NAME: z10o188BOR.dgn
PROJECT LEADER: J. WILSON
DESIGNED BY: C. BAISLY
BORING LOG INFORMATION SHEET #5

PLOT DATE: 7/30/2015
DRAWN BY: S. GUNN
CHECKED BY: D. HA
SHEET 50 OF 156