

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-210				
		HARTFORD		Page No.: 1 of 1		Pin No.: 12A132				
		IM 91-2(79)		Checked By: BLS						
		I-91 BR-43								
Boring Crew: DAIGNEAULT, NIETO, JUDKINS		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 5/08/14 Date Finished: 5/12/14		I.D.: 4 in		1.5 in		Date Depth (ft) Notes				
VTSPG NAD83: N 417672.63 ft E 1683317.78 ft		Hammer Wt: N.A.		140 lb.		05/09/14 19.7 AM				
Station: 152+00.73 Offset: 41.39		Hammer Fall: N.A.		30 in.		05/12/14 19.3 While drilling.				
Ground Elevation: 572.42 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK		C = 1.46				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Wood & Roots were within sample.				3-2-4-4 (6)	5.3	47.9	44.4	7.7
		Field Note: NXDC, Cobbles								
		Field Note: No Recovery				R@0.0" (R)				
10		Field Note: NXDC, Boulder								
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.9 ft				5-4-3-4 (7)	14.5	22.3	44.5	33.2
		Field Note: NXDC								
		A-2-4, SiSa, gry, Moist, Rec. = 1.2 ft				10-13-11-15 (24)	12.7	17.8	48.1	34.1
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-2-4, GrSiSa, gry, Moist, Rec. = 1.1 ft				10-9-10-10 (19)	12.1	21.8	51.5	26.7
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, SaGrSi, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				R@6.0" (R)	10.3	32.0	29.4	38.6
		Field Note: Roller Coned ahead and cleaned out casing.								
		Field Note: No Recovery				R@0.0" (R)				
		Field Note: Mostly Broken Rock with a small layer of Weathered Rock								
		32.6 ft - 36.6 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, Moderately hard to soft, Unweathered, Poor rock, NXMDC, RMR = 41	1 (75)	100 (28)	2					
		36.6 ft - 41.6 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, Moderately hard to soft, Unweathered, Poor rock, NXMDC, RMR = 36	2 (75)	42 (0)	3					
		Hole stopped @ 41.6 ft								
		Remarks: Hole collapsed at 7.7 ft.								
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 may occur due to other factors than those present at the time measurements were made.										

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-211				
		HARTFORD		Page No.: 1 of 1		Pin No.: 12A132				
		IM 91-2(79)		Checked By: BLS						
		I-91 BR-43								
Boring Crew: DAIGNEAULT, NIETO, HOOK		Casing: WB		Sampler: SS		Groundwater Observations				
Date Started: 5/05/14 Date Finished: 5/05/14		I.D.: 4 in		1.5 in		Date Depth (ft) Notes				
VTSPG NAD83: N 417452.80 ft E 1683180.69 ft		Hammer Wt: N.A.		140 lb.		05/05/14 8.1 While drilling.				
Station: 149+58.45 Offset: -49.66		Hammer Fall: N.A.		30 in.						
Ground Elevation: 567.04 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK		C = 1.46				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate (min/ft)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Grass & Roots were within sample.				1-1-1-1 (2)	18.0	15.5	53.9	30.6
		Field Note: Roller Coned, Cleaned out casing.								
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Roots were within sample.				1-1-6-10 (7)	20.1	7.8	70.4	21.8
		Field Note: Broken Rock was within sample.								
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				10-9-9-14 (18)	14.5	15.4	58.8	25.8
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, SiSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				5-12- R@6.0" (R)	13.8	18.1	41.1	40.8
		SaGr, blu-grn, Dry, Rec. = 0.2 ft, 16.3 ft - 16.5 ft, Lab Note: Mostly Broken Rock with sandy silt.					3.8	52.2	32.2	15.6
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, GrSaSi, gry, MTW, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				25-42- R@3.5" (R)	11.3	25.3	26.8	47.9
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, GrSaSi, gry, MTW, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				17-36-31- R@3.5" (67)	12.9	20.5	35.2	44.3
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, SaSi, gry, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.				26-44- R@3.5" (R)	11.5	18.3	32.5	49.2
		Field Note: Roller Coned ahead and cleaned out casing.								
		A-4, SaSi, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				30- R@6.0" (R)	12.4	16.1	36.9	47.0
		Field Note: Roller Coned, Weathered Rock								
		40.0 ft - 45.0 ft, Dark-greenish-gray to medium-bluish-gray metamorphosed andesitic and basaltic Tuff, Moderately hard, Unweathered, Poor rock, NXMDC, Vertical fractures in upper core run. RMR = 36	1 (85)	90 (7)	6					
		Hole stopped @ 45.0 ft								
		Remarks: Hole collapsed at 38.2 ft.								
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 may occur due to other factors than those present at the time measurements were made.										

PROJECT NAME: HARTFORD
 PROJECT NUMBER: IM 091-2(79)
 FILE NAME: s12a132bor_new.dgn PLOT DATE: 15-DEC-2014
 PROJECT LEADER: K. HIGGINS DRAWN BY: W. LAMMER
 DESIGNED BY: W. LAMMER CHECKED BY: J. SALVATORI
 BORING LOGS 8 SHEET 80 OF 166