

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-101</b>			
				RICHMOND STP 0284(17) US-2		Page No.: 1 of 1			
						Pin No.: 97C186			
						Checked By: CEE			
Boring Crew: PORTER, WHITLOCK, HOLT		Type: H.S.A. SS		Groundwater Observations					
Date Started: 2/15/12 Date Finished: 2/15/12		I.D.: 3.5 in 1.5 in		Date	Depth (ft)	Notes			
VTSPG NAD83: N 701850.10 ft E 1506561.00 ft		Hammer Wt: N.A. 140 lb.				No water to depth.			
Station: 6+25 Offset: -34.00		Hammer Fall: N.A. 30 in.							
Ground Elevation: 328.6 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKID C <sub>e</sub> = 1.33							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		A-1-a, SaGr, brn, Moist, Taken from auger flight			6.4	59.2	25.4	15.4	
5		A-4, SaSi, brn, Moist, Rec. = 1.1 ft, Trace of Clay.			7-4-3-4 (7)	14.3	2.1	28.1	69.8
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.			3-5-6-5 (11)	13.6	0.9	25.2	73.9
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, Trace of Clay.			8-8-9-9 (17)	14.3	0.9	42.1	57.0
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft			3-5-4-4 (9)	13.4	0.2	32.5	67.3
10		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.			4-7-8-12 (15)	14.4		29.5	70.5
15		A-4, SaSi, brn, Moist, Rec. = 1.6 ft, Trace of Clay.			8-10-11-15 (21)	17.1		24.5	75.5
		Field Note, Cobbles							
20		Field Note, No Recovery. Stone in sampler, Rec. = 0.3 ft			8-R@1.0"				
		Field Note, Cobbles							
		A-4, SaSi, brn, Moist, Sample taken from auger flights. Trace of Clay.			17.1	0.4	23.8	75.8	
25		Field Note, Cobbles							
		Hole stopped @ 25.6 ft In Cobbles or on Ledge.							
		Remarks: Lab Note: Samples with "Trace of Clay" had noticeable clay within the sample, but an insufficient amount for testing. The amounts of clay were very small with very thin layers within the sample. It was lean clay with low to medium Limits.							
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 <sub>e</sub> 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.									

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-102</b>			
				RICHMOND STP 0284(17) US-2		Page No.: 1 of 1			
						Pin No.: 97C186			
						Checked By: CEE			
Boring Crew: PORTER, WHITLOCK, HOLT		Type: H.S.A. SS		Groundwater Observations					
Date Started: 2/15/12 Date Finished: 2/15/12		I.D.: 3.5 in 1.5 in		Date	Depth (ft)	Notes			
VTSPG NAD83: N 701801.00 ft E 1506628.80 ft		Hammer Wt: N.A. 140 lb.				No water to depth.			
Station: 6+86 Offset: 23.00		Hammer Fall: N.A. 30 in.							
Ground Elevation: 326.3 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKID C <sub>e</sub> = 1.33							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		A-1-a, SaGr, brn, Moist, Taken from Auger Flights.			5.2	57.9	31.3	10.8	
5		A-2-4, Sa, brn, Moist, Rec. = 1.9 ft			9-16-24-23 (40)	9.2	16.3	64.8	18.9
		A-4, SiSa, brn, Moist, Rec. = 1.3 ft, Trace of Clay.			14-17-27-10 (31)	13.5	11.1	44.8	44.1
		A-4, SaSi, brn, Moist, Rec. = 1.6 ft, Trace of Clay.			7-7-9-10 (16)	18.0	2.5	26.7	70.8
		A-4, SaSi, brn, Moist, Rec. = 1.2 ft			6-2-3-7 (5)	13.1	4.2	33.8	62.0
10		A-4, SaSi, brn, Moist, Rec. = 1.0 ft, Trace of Clay.			5-13-14-17 (27)	11.7	4.1	26.2	69.7
15		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, Trace of Clay.			5-13-12-13 (25)	15.4	1.3	21.1	77.6
		Field Note, Cobbles							
20		A-4, SaSi, brn, Moist, Rec. = 1.4 ft, Trace of Clay.			3-7-10-11 (17)	15.1	0.8	31.7	67.5
25		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.			8-10-11-15 (21)	16.5	0.4	25.3	74.3
		Hole stopped @ 27.0 ft							
		Remarks: Lab Note: Samples with "Trace of Clay" had noticeable clay within the sample, but an insufficient amount for testing. The amounts of clay were very small with very thin layers within the sample. It was lean clay with low to medium Limits.							
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 <sub>e</sub> 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.									

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-103</b>			
				RICHMOND STP 0284(17) US-2		Page No.: 1 of 1			
						Pin No.: 97C186			
						Checked By: CEE			
Boring Crew: PORTER, WHITLOCK, HOLT		Type: H.S.A. SS		Groundwater Observations					
Date Started: 2/13/12 Date Finished: 2/13/12		I.D.: 3.5 in 1.5 in		Date	Depth (ft)	Notes			
VTSPG NAD83: N 701412.80 ft E 1507581.40 ft		Hammer Wt: N.A. 140 lb.				None Taken			
Station: 17+44 Offset: -30.00		Hammer Fall: N.A. 30 in.							
Ground Elevation: 304.0 ft		Hammer/Rod Type: Auto/AWJ							
		Rig: CME 45C SKID C <sub>e</sub> = 1.33							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		A-2-4, SiSa, brn, Moist, Taken from Auger Flights.			11.8	16.8	57.2	26.0	
5		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft			13-11-8-7 (19)	9.1	31.7	43.4	24.9
		Rec. = 1.0 ft			7-6-5-7 (11)	25.0	7.1	17.8	75.1
		A-4, Si, brn, Moist, Rec. = 0.7 ft			4-3-4-6 (7)	20.7	2.7	39.3	58.0
		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft			4-5-5-6 (10)	16.2	0.9	70.8	28.3
10		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft			4-7-8-8 (15)	11.9	30.9	58.6	10.5
15		A-1-b, GrSa, brn, MTW, Rec. = 0.8 ft			11-6-13-8 (19)	16.5	43.8	45.9	10.3
20		A-1-b, GrSa, gry, MTW, Rec. = 1.0 ft			6-6-6-6 (12)	19.7	28.5	61.2	10.3
25		A-1-b, GrSa, gry, Moist, Rec. = 1.0 ft			7-6-8-7 (14)	14.7	33.2	47.5	19.3
		Hole stopped @ 27.0 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 <sub>e</sub> 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.									

PROJECT NAME: RICHMOND  
PROJECT NUMBER: STP 0284 (17) / CMG PARK (31)  
FILE NAME: z97c186borlog.dgn PLOT DATE: 4/29/2013  
PROJECT LEADER: ERIK ATKINS DRAWN BY: N. BOSAN  
DESIGNED BY: N. BOSAN CHECKED BY: E. ATKINS  
BORING LOGS SHEET 1 SHEET 30 OF 133