

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101					
				South Burlington IM SCRP(21) Slide I-189		Page No.: 1 of 2					
						Pin No.: 16d064					
						Checked By: MLM					
Boring Crew: <u>Garrow, Judkins, Nieto</u>		Casing	Sampler	Groundwater Observations							
Date Started: <u>6/27/16</u>	Date Finished: <u>6/30/16</u>	Type: <u>WB</u>	<u>SS</u>	Date	Depth (ft)	Notes					
VTSPG NAD83: <u>N 712195.97 ft E 1460824.09 ft</u>		I.D.: <u>4 in</u>	<u>1.5 in</u>	<u>06/28/16</u>	<u>35.6</u>	<u>W.T. before drilling</u>					
Station: <u>63+03</u>	Offset: <u>18.20</u>	Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>	<u>06/30/16</u>	<u>40.7</u>	<u>W.T. before drilling</u>					
Ground Elevation: <u>282.2 ft</u>		Hammer Fall: <u>N.A.</u>	<u>30 in.</u>								
		Hammer/Rod Type: <u>Auto/AWJ</u>									
		Rig: <u>CME 55 TRACK</u>	<u>C_c = 1.41</u>								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt Pavement, 0.0 ft - 0.98 ft									
		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.3 ft, Lab Note: Pieces of asphalt pavement and a lot of broken rock was within sample.			23-20-20-15 (40)	4.0	66.1	26.0	7.9		
		Field Note: Cleaned out casing									
		A-4, SaSi, gry-brn, Moist, Rec. = 1.1 ft			10-13-18-20 (31)	15.1	1.3	37.6	61.1		
		A-4, SaSi, brn-gry, Moist, Rec. = 1.4 ft			11-13-18-21 (31)	13.9	1.5	40.0	58.5		
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft			10-11-15-16 (26)	13.9	0.5	48.0	51.5		
		A-4, SaSi, brn-gry, Moist, Rec. = 1.7 ft			7-22-15-16 (37)	16.8	0.9	46.1	53.0		
		A-4, SaSi, brn-gry, Moist, Rec. = 1.2 ft			8-12-16-18 (28)	16.6	0.2	44.1	55.7		
		A-4, SiSa, brn-gry, Moist, Rec. = 1.5 ft			8-13-15-16 (28)	17.8	0.5	52.4	47.1		
		A-4, SaSi, brn-gry, Moist, Rec. = 1.6 ft			8-10-18-26 (28)	17.8	0.5	42.2	57.3		
		A-4, SaSi, brn-gry, Moist, Rec. = 1.3 ft			8-13-15-20 (28)	16.5	0.4	47.9	51.7		
		A-4, SaSi, gry-brn, Moist, Rec. = 1.5 ft			8-12-14-18 (26)	13.9	0.8	47.2	52.0		
		A-4, SaSi, brn, Moist, Rec. = 1.3 ft			11-13-17-20 (30)	17.2	0.2	43.6	56.2		
		A-4, SiSa, brn-gry, Moist, Rec. = 1.6 ft			8-11-16-21 (27)	16.5	0.5	57.6	41.9		
		A-4, SiSa, gry-brn, Moist, Rec. = 1.0 ft, Lab Note: Sample tested non-plastic			9-12-15-11 (27)	20.6	0.1	59.5	40.4		
		Field Note: No Recovery			5-2-2-3 (4)						
		Field Note: Rollercone, Cleaned out casing									
		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft			WR-WH-WH-WH (0)	54.8	1.3	1.9	96.8	69	40
		Visual Description: Cl, gry, Moist, Rec. = 2.0 ft, Pushed 3"x30"Shelby Tube									
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.											

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Boring Crew: <u>Garrow, Judkins, Nieto</u>		Casing	Sampler	Groundwater Observations							
Date Started: <u>6/27/16</u>	Date Finished: <u>6/30/16</u>	Type: <u>WB</u>	<u>SS</u>	Date	Depth (ft)	Notes					
VTSPG NAD83: <u>N 712195.97 ft E 1460824.09 ft</u>		I.D.: <u>4 in</u>	<u>1.5 in</u>	<u>06/28/16</u>	<u>35.6</u>	<u>W.T. before drilling</u>					
Station: <u>63+03</u>	Offset: <u>18.20</u>	Hammer Wt: <u>N.A.</u>	<u>140 lb.</u>	<u>06/30/16</u>	<u>40.7</u>	<u>W.T. before drilling</u>					
Ground Elevation: <u>282.2 ft</u>		Hammer Fall: <u>N.A.</u>	<u>30 in.</u>								
		Hammer/Rod Type: <u>Auto/AWJ</u>									
		Rig: <u>CME 55 TRACK</u>	<u>C_c = 1.41</u>								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Field Note: Vane Shear, 788 psf/ Aborted Remold at 656 psf. Possible gravel in clay									
		A-7-6, Cl, gry, Rec. = 2.0 ft			WR-WR-WH-2 (0)	52.0	0.7	1.5	97.8	60	33
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft			WR-WR-WR-WR (0)	59.1	0.1	0.7	99.2	66	38
		Field Note: Rollercone, Cleaned out casing									
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft			WR-WR-WR-WR (0)	48.4		0.7	99.3	60	35
		Field Note: Rollercone, Cleaned out casing									
		A-4, Si, gry, Moist, Rec. = 1.7 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic.			12-19-32-35 (51)	13.6	11.0	13.6	75.4		
		Field Note: Rollercone, Cleaned out casing									
		A-4, Si, gry, Moist, Rec. = 1.9 ft, Lab Note: A small amount of clay was within sample. Sample tested non-plastic.			12-24-31-R@5" (55)	21.8	0.3	0.8	98.9		
		Hole stopped @ 91.9 ft									
		Remarks: 1.) Vane used was 3x6 inches. 2.) Vane Shear = Initial/Remold 3.) Changed to 3 inch casing at 49 feet. 4.) Hole was grouted with bentonite and portland cement grout.									
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: SOUTH BURLINGTON
PROJECT NUMBER: IM SCRP(21)
FILE NAME: I6d064/Design/frm.dgn PLOT DATE: 27-APR-2017
PROJECT LEADER: K. UPMAL DRAWN BY: VTRANS
DESIGNED BY: VTRANS CHECKED BY: C. LEACH
BORING LOG SHEET SHEET 9 OF 30