



Boring Crew: Garrow, Judkins, Olden  
Date Started: 1/04/17 Date Finished: 1/26/17  
VTSPG NAD83: N 276873.52 ft E 1618865.92 ft  
Station: 676+67.85 Offset: -8.58  
Ground Elevation: 570.78 ft

Type: WB Sampler: SS  
I.D.: 4 In 1.5 In  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 55 TRACK CE = 1.41

Groundwater Observations		
Date	Depth (ft)	Notes
01/06/17	11.7	W.T. before drilling
01/10/17	11.3	W.T. before drilling
01/19/17	11.4	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, blk, Moist, Rec. = 0.7 ft, Lab Note: Broken rock and a small amount of organic material was within sample			13-4-3-3 (7)	25.6	52.7	35.3	12.0
		A-2-4, SiSa, brn, Moist, Rec. = 0.2 ft			4-5-6-4 (11)	14.1	10.7	66.9	22.4
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample			11-12-5-6 (17)	11.3	35.2	52.2	12.6
		Field Note: Rollercone, Cleaned out casing			WR-3-4-14 (7)	22.2	15.4	72.3	12.3
		A-2-4, GrSa, brn, Moist, Rec. = 0.3 ft			12-3-3-3 (7)	10.2	62.6	30.9	6.5
		Field Note: No Recovery			11-15-24-20 (39)	8.9	60.0	31.1	8.9
		Field Note: NXDC, Cleaned out casing			15-23-21-33 (44)	8.3	64.8	26.5	8.7
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: A lot of broken rock was within sample			30-17-19-20 (36)				
		Field Note: NXDC, Cleaned out casing			17-22-9-9 (31)				
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft			9-12-10-5 (22)	8.2	69.0	26.0	5.0
		Field Note: NXDC, Cleaned out casing			5-5-4-5 (9)	12.1	43.6	47.7	8.7
		Field Note: No Recovery			6-5-7-8 (12)				
		Field Note: NXDC, Cleaned out casing			8-6-9-7 (15)				
		A-1-a, SaGr, brn, Moist, Rec. = 0.3 ft, Field Note: Rock stuck in end of sampler			6-7-12-17 (19)	11.7	62.0	21.2	16.8
		Field Note: NXDC, Cleaned out casing							
		A-1-b, SaGr, brn, Moist, Rec. = 0.2 ft, Field Note: Rock stuck in end of sampler			12-17-14-6 (31)	8.7	62.9	27.7	9.4
		Field Note: NXDC, Cleaned out casing							
		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft			6-10-7-10 (17)	17.4	16.5	73.3	10.2
		Field Note: NXDC, Cleaned out casing							
		A-1-b, Sa, brn, Moist, Rec. = 0.9 ft			16-23-17-13 (40)				
		Field Note: NXDC, Cleaned out casing							
		Field Note: No Recovery			16-13-8-5 (21)	11.7	44.1	45.6	10.3
		Field Note: NXDC, Cleaned out casing							
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft							
		Field Note: NXDC, Cleaned out casing							
		Field Note: Unable to sample due to flowing sand							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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01/10/17	11.3	W.T. before drilling
01/19/17	11.4	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
60		Field Note: NXDC, Cleaned out casing							
		A-2-4, Sa, brn, Moist, Rec. = 1.2 ft			10-10-11-11 (21)	23.1	4.8	82.6	12.6
		Field Note: No Recovery							
		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft			13-18-17-16 (35)	10.8	36.7	43.4	19.9
70		Field Note: BXDC, Cleaned out casing							
		A-1-b, GrSa, gry, Moist, Rec. = 0.5 ft			32-R@2.5" (R)	10.0	39.1	41.2	19.7
		Field Note: No Recovery			R@1" (R)				
		Field Note: BXDC, Cleaned out casing							
80		Field Note: No Recovery			R@1" (R)				
		Field Note: No Recovery							
		A-2-4, GrSa, brn, Moist, Rec. = 0.5 ft, Lab Note: Weathered rock was within sample			R@6" (R)	11.0	22.2	61.0	16.8
		Field Note: BXDC, Cleaned out casing							
90		90.1 ft - 95.1 ft, BX	1	6					Top of Bedrock @ 90.1 ft
				4					
				4					
				5					
				4					
				4					
				5					
100		Hole stopped @ 100.1 ft							
		Remarks: Hole collapsed at 12.5 feet.							
		1. Lost water return at 6 feet.							
		2. Regained water return at 32 feet.							
		3. Sleeved down with 3 inch casing at 70 feet.							
		4. No water tanle observed after drilling 1/5/2017.							
		5. Water table before drilling 1/17/2017 observed at 10.6 feet.							
		6. Water table before drilling 1/18/2017 observed at 4.0 feet.							

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Boring Crew: Emerson, Judkins, Olden	Type: Casing	Sampler	Groundwater Observations		
Date Started: 2/14/17 Date Finished: 2/22/17	I.D.: WB	SS	Date	Depth (ft)	Notes
VTSPG NAD83: N 276993.09 ft E 1618794.70 ft	Hammer Wt: N.A.	140 lb.	02/15/17	11.7	W.T. before drilling
Station: 678+5.87 Offset: 9.28	Hammer Fall: N.A.	30 in.	02/16/17	12.0	W.T. before drilling
Ground Elevation: 571.16 ft	Hammer/Rod Type: Auto/AWJ		02/21/17	10.7	W.T. before drilling
	Rig: CME 55 TRACK	CE = 1.41			

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Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Dill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Dry, Rec. = 1.3 ft, Lab Note: Sticks and pieces of wood were within sample Field Note: No Recovery				22-12-3-4 (15)	22.3	40.5	45.0	14.5
5		A-1-b, GrSa, brn, Moist, Rec. = 0.3 ft				5-8-12-8 (20)	7.3	42.8	47.3	9.9
		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken rock was within sample Field Note: Rollercone, Cleaned out casing				11-5-4-4 (9)	11.8	13.3	64.0	22.7
10		A-2-4, GrSa, brn, Moist, Rec. = 0.5 ft Field Note: NXDC, Cleaned out casing				11-11-7-3 (18)	21.2	21.0	67.7	11.3
		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				2-3-4-8 (16)	11.9	43.9	48.5	7.6
15		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken and weathered rock was within sample Field Note: NXDC, Cleaned out casing				18-20-38-23 (58)	11.1	54.2	37.0	8.8
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample Field Note: NXDC, Cleaned out casing				17-22-25-14 (47)	11.5	52.1	39.5	8.4
20		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft Field Note: NXDC, Cleaned out casing				13-28-12-17 (40)				
		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft Field Note: No Recovery				25-17-12-15-16 (27)	10.0	51.4	37.2	11.4
		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft Field Note: NXDC, Cleaned out casing				13-17-28-36 (45)	10.9	42.1	43.7	14.2
25		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft Field Note: NXDC, Cleaned out casing				17-20-13-10 (33)	10.8	52.0	36.6	11.4
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft								
		Field Note: Cleaned out casing								
30		A-3, Sa, brn, Moist, Rec. = 1.1 ft				8-8-8-9 (16)	19.8	12.6	80.7	6.7
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft				5-7-6-8 (13)	16.7	27.1	63.3	9.6
35		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft				6-6-7-8 (13)	23.3	0.6	90.9	8.5
		A-3, Sa, brn, Moist, Rec. = 0.7 ft				6-6-6-8 (12)	18.1	29.4	62.5	8.1
40		A-1-b, GrSa, brn, Wet, Rec. = 0.9 ft								

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RCD %)	Dill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, brn, Wet, Rec. = 1.0 ft				7-13-5-13 (18)	14.7	53.4	38.9	7.7
55										
60										
65										
70		Field Note: NXDC, Cleaned out casing, probable boulders								
		Field Note: NXDC, Cleaned out casing								
75										
80		78.3 ft - 83.3 ft, Whitish-gray, Muscovite-biotite-quartz-plagioclase GNEISS, with faint tan staining along joints. Hard, Very slightly weathered, Good rock, NX, RMR=66	1 (50)	100 (78)	7					
85		83.3 ft - 88.3 ft, Whitish-gray, Muscovite-biotite-quartz-plagioclase GNEISS, with vertical fracture from 83.3 feet to 84.0 feet. Minor rust staining along joints and fracture. Hard, Very slightly weathered, Good rock, NX, RMR=61	2 (50-55)	100 (80)	3					
90		Hole stopped @ 88.3 ft								
		Remarks: Hole collapsed at 13.0 feet								
95		1. Water table before drilling on 2/17/2017 observed at 12.0 feet.								

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BORING LOG 2 CHESTER GMRC(11) GPJ VERMONT ACT.GDT 3/10/17