

Boring Crew: Emerson, Garrow, Olden	Type: Casing WB, Sampler SS	Groundwater Observations		
Date Started: 2/07/17 Date Finished: 2/14/17	I.D.: 4 in, 1.5 in	Date	Depth (ft)	Notes
VTSPG NAD83: N 498619.60 ft E 1469558.18 ft	Hammer Wt: N.A. 140 lb.	02/08/17	8.2	W.T. before drilling
Station: 12+34.16 Offset: 14.70	Hammer Fall: N.A. 30 in.	02/14/17	5.3	W.T. before drilling
Ground Elevation: 348.5 ft	Hammer/Rod Type: Auto/AWJ			
	Rig: CME 45C SKID CE = 1.42			

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
5	[Diagonal Hatching]	A-1-b, SaGr, brn, Dry, Rec. = 1.4 ft				9-10-7-19 (17)	15.1	51.9	29.9	18.2			
		A-1-b, SaGr, gry, Dry, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				15-13-5-5 (18)	3.9	61.6	22.0	16.4			
		Field Note: NXDC, Cleaned out casing					21.8	13.2	32.0	54.8			
		A-4, SaSi, brn, Dry, Rec. = 0.9 ft, Lab Note: Plant material was within sample				6-6-4-5 (10)	24.5	0.8	21.1	78.1			
10	[Cross-hatching]	A-4, SaSi, brn, Moist, Rec. = 1.5 ft				5-4-6-4 (10)	27.9	0.9	17.9	81.2			
		A-4, Si, gry, Moist, Rec. = 0.9 ft					4-3-4-4 (7)						
15	[Diagonal Hatching]	Field Note: No Recovery				1-2-1-1 (3)							
		Field Note: No Recovery					1-1-1-1 (2)	61.3	0.2	30.6	69.2		
		A-4, SaSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Sample contained trace (4.8%) organics (AASHTO T-267)					140.7	10.5	59.8	29.7			
		A-8, Organic Si, blk, Moist, Rec. = 0.7 ft, Lab Note: Sample contained little (18.3%) organics (AASHTO T-267). Decomposing wood was noticeable in sample				WH-1-1 (1)	45.4	0.1	19.1	80.8			
		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: A very small amount of clay and organic material was within sample. Sample tested non-plastic				WH-2-2 (2)	73.1	3.3	17.7	79.0			
		A-4, Si, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample contained trace (7.2%) organics (AASHTO T-267). Decomposing wood and a thin layer of clay was noticeable within sample. Sample tested non-plastic				1-1-2-3 (3)	247.3	41.7	42.4	15.9			
25	[Diagonal Hatching]	A-8, Organic Si, brn, Moist, Rec. = 1.7 ft, Lab Note: Sample contained (44.0%) organics. Decomposing wood was noticeable in sample.				WH-2-4 (2)	315.4	27.7	59.4	12.9			
		A-8, Organic Si, brn, Wet, Rec. = 0.5 ft, Lab Note: Sample contained (37.5%) organics. Decomposing wood was noticeable in sample.				45.2	1.3	22.5	76.2				
		A-7-6, Cl, gry, Moist, Rec. = 1.2 ft, Lab Note: Sample contained a very small amount of organic material. Sample had similar Aterberg limits to 22-24 foot sample				(WH)	77.8	0.1	0.4	99.5	65	36	
		A-7-6, Cl, gry, Moist, Rec. = 1.8 ft											
30	[Diagonal Hatching]	Field Note: NXDC, Cleaned out casing											
		A-7-6, Cl, gry, Moist											
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft					(WH)	75.6	0.1	99.9			
		A-7-6, Cl, gry, Moist											
35	[Diagonal Hatching]	A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 26-28 foot sample				(WR)	80.7	0.2	99.8				

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. <<SUB>><<SUB>> 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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40	[Diagonal Hatching]	A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Lab Note: Sample had similar Atterberg limits to 45-47 foot sample											
							(WR)	80.5	0.3	99.7			
45	[Diagonal Hatching]	A-7-6, Cl, gry, Moist, Rec. = 2.0 ft											
							(WH)	73.1	0.1	1.0	98.9	63	35
50	[Diagonal Hatching]	Field Note: NXDC, Cleaned out casing											
		A-7-6, Cl, gry, Moist, Lab Note: Sample had similar Atterberg limits to 45-47 foot sample					(WR)	47.3	0.2	3.6	96.2		
55	[Cross-hatching]	Field Note: No Recovery											
							(WH)						
60	[Cross-hatching]	Field Note: No Recovery, Rec. = 1.0 ft											
							(WH)						
65	[Horizontal Hatching]	63.8 ft - 68.8 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Sub-vertical joints from 63.8 feet to 64.45 feet and 65.4 feet to 65.9 feet. Orange and yellow staining with secondary calcite precipitation along joints. Hard, Slightly weathered, Poor rock, NX, RMR=39	1 (50-60)	100 (0)	4								
70	[Horizontal Hatching]	68.8 ft - 73.8 ft, Light gray, DOLOMITIC MARBLE, with red and beige dolomite beds. Yellow and brown staining along joints. Some secondary calcite precipitation along joints. Silt coated sub-vertical joint noted from 70.05 feet to 70.30 feet. Hard, Slightly weathered, Fair rock, NX, RMR=54	2 (20)	82 (46)	10								
75	[Horizontal Hatching]	Hole stopped @ 73.8 ft											
		Remarks: Hole collapsed at 59.0 feet.											

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BORING LOG 2|LESTER|BO1445(37)|VERMONT|AOT|GDT|39/17