STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

WAITSFIELD
BRF 013-4(34)
VT-100 BR-181

Boring No.: **B-102**
Page No.: 1 of 2
PIn No.: 10B422
Checked By:

Boring Crew: DAIGNEAULT, JUDKINS, SALISBURY
Date Started: 5/16/13 Date Finished: 6/05/13
VTSPG NAD83: N 621348.05 ft E 1559444.13 ft
Station: 4+25.6 Offset: 18.40
Ground Elevation: 674.3 ft

	Casing	Sampler
Type:	WB	SS & TUBE
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 45C TRACK	C. = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
05/22/13	13.3	While drilling.
05/23/13	5.5	AM
06/05/13	6.1	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate mInutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, Wood/Roots were within sample.				1-4-5-9 (9)	9.9	54.6	30.7	14.7		
		A-1-b, GrSa, brn, Molst, Rec. = 1.2 ft, Broken Rock was within sample.				2-6-6-6 (12)	5.1	42.9	43.7	13.4		
		A-2-4, GrSa, red-brn, Moist, Rec. = 0.9 ft, Sample was red In color.				3-3-2-6 (5)	20.3	21.5	61.2	17.3		
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft				12-10-8-6 (18)	11.7	52.6	37.7	9.7		
		A-1-b, SaGr, brn, Molst, Rec. = 0.8 ft				5-9-7-3 (16)	14.6	47.8	38.2	14.0		
10		A-4, SaSI, brn-gry, Molst, Rec. = 1.0 ft, Small Wood particles were within sample. Possible bottom of stream bed.				1-WH-1-5 (1)	55.5	4.6	35.4	60.0		
		A-1-a, SaGr, brn-gry, Molst, Rec. = 0.9 ft				10-12-11-10 (23)	10.6	57.5	33.1	9.4		
		A-2-4, SaSiGr, gry-brn, Moist, Rec. = 1.0 ft				6-5-6-3 (11)	20.7	45.5	20.0	34.5	29	5
		A-6, SiCl, brn-gry, Moist, Rec. = 0.3 ft					42.5		7.6	92.4	37	12
		Visual Description:, ClSi, gry, Moist, Rec. = 1.6 ft										
		18.0 ft - 19.6 ft, Vane Shear 525/195 psf										
20		Visual Description:, SaSi, gry, Wet, Rec. = 2.0 ft										
		A-4, Si, gry, MTW, Rec. = 2.0 ft, Vane Shear 615/130 psf					34.4		5.3	94.7	27	4
							38.3		1.3	98.7	35	6
		A-4, Si, gry, MTW, 22'-24' was sampled with Shelby Tube				2-2-2-3 (4)	39.1		1.6	98.4	30	4
		A-4, SI, gry, Wet, Rec. = 1.7 ft										
30		A-4, Si, gry, Wet, Rec. = 2.0 ft				WH-2-2-2 (4)	37.9		2.3	97.7	29	3
		Visual Description:, Si, gry, Wet, Rec. = 2.0 ft										
		A-4, Si, gry, Wet, Rec. = 2.0 ft, Vane Shear 940/175 psf					27.7		6.6	93.4	25	1
		A-4, Si, gry, Wet, 34'-36' was sampled with Shelby Tube					29.3		7.1	92.9		
40												
		A-4, SaSi, gry, Moist, Rec. = 0.4 ft, Broken Rock was within sample.				R@5.0" (R)	8.8	17.5	34.3	48.2		
50		A-4, SaSi (HP), gry, Moist, Rec. = 0.4 ft				R@6.0" (R)	9.3	18.4	32.6	49.0		

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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		A-4, GrSaSI (HP), gry, Moist, Rec. = 0.2 ft, Broken Rock was wIthIn sample.				R@3.5" (R)	8.2	22.8	33.6	43.6		
60		A-4, GrSaSI (HP), gry, Molst, Rec. = 0.4 ft, Broken Rock was within sample.				R@5.0" (R)	10.6	24.5	27.7	47.8		
		A-4, SaSi, gry, Moist, Rec. = 0.6 ft, A very thin layer of clay was noticeable.				29-R@1.0" (R)	13.8	10.9	33.1	56.0		
70		A-4, SaSi, gry, Moist, Rec. = 1.4 ft, Broken Rock was within sample.				21-31-R@6.0" (R)	11.8	17.1	27.3	55.6		
		Field Note:, No Recovery				R@2.5" (R)						
80												
		Fleld Note:, NXDC, Cleaned out wlth rollar cone85.0 ft - 92.0 ft, Green, Schistose Serpentinite, Moderately hard, Unweathered, Good rock, RMR = 71										
		NXMDC	1 (85)	100 (80)	5 5 4 4 4			Top of Bedrock @ 87.0 ft				
90		92.0 ft - 97.0 ft, Green, Schistose Serpentinite, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 74	2 (85)	100 (90)	5 5 5 5 4 4							
		Hole stopped @ 97.0 ft										
100												

Remarks:
1. Hole collapsed at 25.6 ft.
2. Vane used was 3x6 inches.
3. Vane Shear = Initial/Remold
4. See Geotechnical Report for further explanation of Triaxial and Consolidation test results.

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