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

BORING LOG

RUTLAND CITY
BRF 3000(19)
TH-10 BR-17

Boring No.: B-103
Page No.: 1 of 1
Pin No.: 08J096
Checked By: CAA

Boring Crew: PORTER, GARROW
Date Started: 6/22/10 Date Finished: 6/24/10
VTSPG NAD83: N 402094.14 ft E 1507278.05 ft
Station: 8+53 Offset: -20.50
Ground Elevation: 511.0 ft

	Casing	Sampler
Type:	WB	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 = 1.46

Groundwater Observations

Date	Depth (ft)	Notes

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 %
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft				1-1-1-1 (2)	25.3	1.0	75.0	24.0
		A-2-4, SiGrSa, brn, Moist, Rec. = 1.0 ft, Wood & Concrete pieces were within sample.				2-2-2-1 (4)	24.4	22.1	57.7	20.2
		NXDC, Cobbles, 5.5 ft - 7.0 ft								
		A-1-a, SaGr, white, Moist, Rec. = 1.0 ft, Broken rock was within sample.				7-15-12-7 (27)	12.7	65.3	31.9	2.8
10		Field Note:, NXDC, Possible Cobbles & Gravel, Hard drilling.								
		Field Note:, No Recovery. Appears to be sand, gry, Moist				4-4-4-4 (8)				
		Field Note:, NXDC, Boulder, Pulled casing and changed bit.								
		A-4, SiSa, brn, MTW, Rec. = 0.8 ft				2-3-4-4 (7)	21.7	6.7	47.1	46.2
20		A-1-b, SaGr, gry, MTW, Rec. = 0.5 ft				6-8-6-6 (14)	12.7	49.0	43.1	7.9
		Field Note:, NXDC, Cobbles								
		Field Note:, No Recovery, Appears to be sand				8-7-7-5 (14)				
30		Field Note:, NXDC, Gravel								
		A-2-4, SiSaGr, white-brn, MTW, Rec. = 0.9 ft, Broken rock was within sample.				32-18-5-5 (23)	15.7	41.5	31.4	27.1
		A-2-4, SiSaGr, gry, Moist, Rec. = 1.0 ft, Broken rock was within sample.				23-R/6" (R)	11.9	47.6	23.1	29.3
40		Field Note:, NXDC, Cobbles								
		Field Note:, NXDC, (HP)								
		A-4, SaGrSi (HP), gry, Moist, Rec. = 1.0 ft				4-50-R/2.5" (R)	10.5	31.7	29.8	38.5
		Field Note:, NXDC, (HP)								
		A-4, GrSaSi (HP), gry, Moist, Rec. = 0.5 ft				50-R/3.5" (R)	10.2	25.5	26.0	48.5
50		A-4, SaGrSi (HP), gry, Moist, Sample from NXDC core.					9.5	28.4	21.7	49.9
		A-4, SaGrSi (HP), gry, Moist, Rec. = 1.5 ft				28-40-R/6" (R)	10.1	27.9	21.9	50.2
		Field Note:, NXDC, Cored ahead								
		Field Note:, No Recovery	1 (?)	70 (0)	12 13	Top of Bedrock @ 57.3 ft				
60		57.3 ft - 59.3 ft, Light gray, Quartzite, with closely spaced iron stained jointing.. Very hard, Fresh, Fair rock, NXDC	2 (?)	100 (55)	14 15					
		59.3 ft - 63.3 ft, Same as Run #1. NXMDC	3 (?)	93 (48)	18 21					
		63.3 ft - 67.3 ft, Same as Run #1. NXMDC			8 8 7 8					
70		Hole stopped @ 67.3 ft								

Remarks:
1. Drillers hit an aquifer in bedrock.
2. They installed 12.0 feet of solid casing and water overflowed pipe.
3. Hole collapsed and sealed aquifer.

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE 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.

BORING LOG 2 RUTLAND CITY BRF 3000(19).GPJ VERMONT AOT.GDT 11/8/10