STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

CHELSEA
BHF 0169(10)
VT-110 BR-11

Boring No.: **B-102**
Page No.: 1 of 1
Pin No.: 12C152
Checked By: CCB

Boring Crew: JUDKINS, HOOK, NIETO
Date Started: 4/08/15 Date Finished: 4/14/15
VTSPG NAD83: N 544617.15 ft E 1654355.89 ft
Station: 175+93.2 Offset: 7.20
Ground Elevation: 833.2 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	5 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_e = 1.34	

Groundwater Observations

Date	Depth (ft)	Notes
04/08/15	2.1	End of day.
04/14/15	9.7	Before drilling.

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 %
		Asphalt Pavement, 0.0 ft - 1.0 ft								
		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft				9-17-11-9 (28)	10.4	25.9	58.9	15.2
		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft, Cleaned out with roller cone.				9-10-23-30 (33)	15.8	18.3	61.2	20.5
5		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft, Cleaned out with roller cone.				23-29-23-24 (52)	18.4	12.7	61.1	26.2
		A-2-4, SiGrSa, brn, MTW, Rec. = 1.8 ft, Lab Note: Broken Rock was within sample.				14-22-29-29 (51)	20.1	25.5	52.4	22.1
10		A-2-4, GrSa, blk-brn, MTW, Rec. = 1.4 ft, Cleaned out with roller cone. Lab Note: Broken Rock was within sample.				19-28-20-17 (48)	22.8	20.6	61.2	18.2
		Field Note:, No Recovery				R@2.5"				
		Field Note:, Drilled a 4 inch diameter Concrete Core, Rec. = 2.0 ft								
		A-2-4, GrSa, brn-gry, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				8-8-12-11 (20)	18.1	25.9	59.5	14.6
15		Field Note:, No Recovery, Stone stuck in sampler. NXDC, Cleaned out casing.				13-24-16-14 (40)				
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft				6-7-9-9 (16)	16.2	22.5	58.2	19.3
20		A-1-b, SaGr, brn-Lt/brn, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing.				6-8-7-12 (15)	14.4	44.7	43.0	12.3
		A-1-b, GrSa, gry-Lt/brn, Moist, Rec. = 1.0 ft				10-11-12-11 (23)	16.0	22.5	61.0	16.5
		A-1-b, GrSa, brn-gry, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing.				8-9-18-24 (27)	14.5	35.1	53.1	11.8
25		A-1-b, SaGr, brn-Lt/brn, Moist, Rec. = 1.1 ft, NXDC, Cleaned out casing.				20-34-31-R@5.0" (71)	13.8	46.8	39.5	13.7
		A-1-b, GrSa, gry, Moist, Rec. = 0.8 ft				14-12-R@5.0"	13.3	26.3	53.8	19.9
30		28.4 ft - 33.4 ft, Dark gray, Phyllitic mica- Schist, After 2.1 ft., gray Meta-Limestone with some Quartz veins. Hard, Very slightly weathered, Good rock, NXMDC, Joints have light orange/brown staining. RMR = 67	1 (50)	100 (52)	4 4 3 3 4	Top of Bedrock @ 28.4 ft				
35		33.4 ft - 38.4 ft, Gray, Meta-Limestone, with orange/brown staining on joints. Hard, Very slightly weathered, Good rock, NXMDC, RMR = 74	2 (50)	98 (91)	3 3 3 3 3					
		Hole stopped @ 38.4 ft								

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_e 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.

BORING LOG 2 CHELSEA BHF 0169(10).GPJ VERMONT AOT.GDT 5/20/15