



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

BORING LOG

EAST MONTPELIER
BRF 037-1(7)
VT-14 BR-68

Boring No.: **B-502**
Page No.: 1 of 2
Pin No.: 98b252
Checked By: MLM

Boring Crew: Judkins, Garrow, Emerson
Date Started: 8/23/16 Date Finished: 8/31/16
VTSPG NAD83: N 644447.01 ft E 1643347.82 ft
Station: 129+22.95 Offset: -6.00
Ground Elevation: 647.1 ft

Type: _____ Casing: 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 TRACUB>><<SUB>> = 1.41

Groundwater Observations

Date	Depth (ft)	Notes
08/29/16	22.3	W.T. before drilling
08/31/16	22.0	W.T. 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 %
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaGrSi, gry, Moist, Rec. = 0.3 ft				R@3.5" (R)	7.4	31.6	21.0	47.4
		Field Note:, NXDC, Cleaned out casing								
		A-4, SiGr, gry, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				8-R@1" (R)	8.5	44.3	19.7	36.0
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaGrSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample				32-R@5" (R)	9.6	28.0	21.7	50.3
		Field Note:, NXDC, Cleaned out casing								
		A-2-4, SaSiGr, gry, Moist, Rec. = 0.3 ft, Lab Note: Broken rock was within sample				R@3.5" (R)	7.9	42.7	22.4	34.9
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaGrSi, gry, Moist, Rec. = 8.0 ft, Lab Note: Broken rock was within sample				40-R@5.5" (R)	10.1	24.7	23.9	51.4
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaSi, gry, Moist, Rec. = 1.3 ft				21-26-48-R@1" (74)	10.5	17.2	21.8	61.0

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<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.



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

BORING LOG

EAST MONTPELIER
BRF 037-1(7)
VT-14 BR-68

Boring No.: **B-502**
Page No.: 2 of 2
Pin No.: 98b252
Checked By: MLM

Boring Crew: Judkins, Garrow, Emerson
Date Started: 8/23/16 Date Finished: 8/31/16
VTSPG NAD83: N 644447.01 ft E 1643347.82 ft
Station: 129+22.95 Offset: -6.00
Ground Elevation: 647.1 ft

Type: _____ Casing: 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 TRACUB>><<SUB>> = 1.41

Groundwater Observations

Date	Depth (ft)	Notes
08/29/16	22.3	W.T. before drilling
08/31/16	22.0	W.T. 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 %
		Field Note:, NXDC, Cleaned out casing								
		A-4, Si, gry, Moist, Rec. = 1.4 ft, Lab Note: Broken rock was within sample				23-30-34-R@2.5" (64)	11.1	16.3	19.9	63.8
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaGrSi, gry, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample				24-39-R@6" (R)	10.2	34.8	26.9	38.3
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaSi, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample				29-32-R@6" (R)	11.1	19.0	22.1	58.9
		Field Note:, NXDC, Cleaned out casing								
		A-4, SaSi, gry, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample				34-R@5" (R)	11.9	16.6	27.2	56.2
		101.1 ft - 106.1 ft, Gray to black, Muscovite-quartz PHYLLITE, with pyrite and massive QUARTZ vein from 103.0 to 105.3 feet. Medium hard, Unweathered, Fair rock, NX, RMR=41. Low RQD could be due to mechanical breakage	1 (65)	90 (13)	7 (9)	7 (7)				
		Hole stopped @ 106.1 ft								
		Remarks: 1. Boring was performed through bridge deck. 2. Ground elevation represents the ground surface elevation. 3. Boring log begins at the ground surface.								
		Top of Bridge Deck Data: 1. Asphalt Pavement 0.0'-0.3' 2. Concrete 0.3'-0.8' 3. Bottom of deck to ground surface = 25.0'								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
<<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.

BORING LOG 2 EAST MONTPELIER BRF 037-1(7) G.P.J. VERMONT AOT.GDT. 9/14/16

BORING LOG 2 EAST MONTPELIER BRF 037-1(7) G.P.J. VERMONT AOT.GDT. 9/14/16