

STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>B-502</u>						
		EAST MONTPELIER BRF 037-1(7) VT-14 BR-68		Page No.: <u>1 of 2</u>						
Boring Crew: <u>Judkins, Garrow, Emerson</u>		Casing Type: <u>WB</u> Sampler: <u>SS</u>		Groundwater Observations						
Date Started: <u>8/23/16</u> Date Finished: <u>8/31/16</u>		I.D.: <u>4 in</u> <u>1.5 in</u>		Date	Depth (ft)					
VTSPG NAD83: <u>N 644447.01 ft E 1643347.82 ft</u>		Hammer Wt: <u>N.A.</u> <u>140 lb.</u>		08/29/16	22.3					
Station: <u>129+22.95</u> Offset: <u>-6.00</u>		Hammer Fall: <u>N.A.</u> <u>30 in.</u>		08/31/16	22.0					
Ground Elevation: <u>647.1 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>			W.T. before drilling					
		Rig: <u>CME 55 TRACK</u> <u>C<sub>E</sub> = 1.41</u>								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQB %)	Drill Rate (min/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
10		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
20		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
30		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
40		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
50		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

BORING LOG 2 EAST MONTPELIER BRF 037-1(7) GPJ VERMONT AOT GDT 8/14/16

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.

PIER NO. 2 DRILLED SHAFT  
TIP EL. 581.00

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Date Started: <u>8/23/16</u> Date Finished: <u>8/31/16</u>		I.D.: <u>4 in</u> <u>1.5 in</u>		Date	Depth (ft)					
VTSPG NAD83: <u>N 644447.01 ft E 1643347.82 ft</u>		Hammer Wt: <u>N.A.</u> <u>140 lb.</u>		08/29/16	22.3					
Station: <u>129+22.95</u> Offset: <u>-6.00</u>		Hammer Fall: <u>N.A.</u> <u>30 in.</u>		08/31/16	22.0					
Ground Elevation: <u>647.1 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>			W.T. before drilling					
		Rig: <u>CME 55 TRACK</u> <u>C<sub>E</sub> = 1.41</u>								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQB %)	Drill Rate (min/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
70		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
80		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
90		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
100		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 8				
		Top of Bedrock @ 101.1 ft								
		Hole stopped @ 106.1 ft								
110		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'								

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PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	BRF 037-1(7)
FILE NAME:	z98b252bor_logs.dgn
DESIGNED BY:	VTRANS
BORING LOG BOR 8	
PLOT DATE:	2/17/2017
DRAWN BY:	J. SOTER
CHECKED BY:	T. KNIGHT
SHEET	73 OF 158

