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

HOLE NO.: B-1
SHEET 1 OF 1
DATE STARTED: 2/8/96
DATE COMPLETED: 2/9/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+040.70
GROUND EL.: 213.247

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: -2.83
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: WARREN
LOGGER:
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

WINGWALL NO. 1
TOP OF FOOTING
ELEVATION 211.600

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, SiGrSa, Moist, br, Rec. = 0.27 m	R	24.1	33.1	39.5	27.4		
		Top of bedrock @ 2.74 m							
		Run 1: BXDC 2.74 m - 3.35 m. Rec. = 0.46 m	Rec.%	Dip	Rqd.%				
			32	65	0				
		Run 2: BXDC 3.35 m. - 3.96 m. Rec. = 0.48 m	33	65	8				
		Run 3: BXMDC 3.96 m. - 5.48 m. Rec. = 1.52 m	100	45	55				
5									
		Run 3: BXMDC 5.48 m. - 7.01 m. Rec. = 1.52 m	100	20-50	38				
		Hole stopped @ 7.01m							
10									

GEOLOGISTS REPORT:
Run 1: Core consists of grey micaceous siliceous limestone interbedded with thin muscovite zones along cleavage joints. Rock is moderately hard and unweathered. Moderate weathering in muscovite rich zones. Low RQD due to mechanical breakage along cleavage planes.

Run 2: Same as above with quartzite vein at high angle to core.

Run 3: Dark grey phyllite with weathered pitting of biotite porphyroblasts. Very pronounced crenulation cleavage. Rock is cut by large quartz vein. Rock is moderately hard and slightly weathered.

Run 4: 5.48 m - 6.36 m: Grey phyllite, moderately hard and unweathered.
6.36 m - 7.01 m: Grey siliceous limestone. Moderately hard and unweathered. Weathered void at 6.58 m.

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

HOLE NO.: B-2
SHEET 1 OF 1
DATE STARTED: 2/6/96
DATE COMPLETED: 2/6/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+048.70
GROUND EL.: 210.099

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: -3.90
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: WARREN
LOGGER: CHABOT .
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

WINGWALL NO. 1
TOP OF FOOTING
ELEVATION 208.500

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No sample. Boulders and concrete. No soil available for contamination testing.							
		Top of bedrock @ 2.44 m							
		Run 1: BXMDC 2.44 m - 3.97 m. Rec. = 1.53 m	Rec.%	Dip	Rqd.%				
			100	50	63				
		Run 2: BXMDC 3.97 m - 5.50 m. Rec. = 0.96 m	63		28				
5									
		Hole stopped @ 5.50 m							
10									

GEOLOGISTS REPORT:
Run 1: Grey siliceous limestone grading to phyllite. Fractures on 0.2 m spacing in limestone. Near vertical fracture in phyllite. Rock is hard and unweathered. Competent.

Run 2: Top 0.2 m: phyllite.
4.17 m - 4.57 m: siliceous limestone.
4.57 m - 5.14 m: quartz vein.
Competent.

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

HOLE NO.: B-3
SHEET 1 OF 1
DATE STARTED: 2/14/96
DATE COMPLETED: 2/15/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+049.40
GROUND EL.: 213.244

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: 7.00
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: WILLIS
LOGGER: CHABOT .
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

ABUTMENT NO. 1
TOP OF FOOTING
ELEVATION 208.500

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No recovery, stone at end of sampler.							
		A-4, Si, moist, brn, Rec. = 0.08 m.	4	29	15.8	10.9	73.3		
		A-2-4, SiSa, moist, dk brn, Rec. = 0.05 m	R	40	17.3	52.6	30.1		
		Top of bedrock @ 4.80 m							
5		BXMDC 4.80 m - 6.30 m, Rec. = 1.45 m	Rec.%	Dip	Rqd.%				
			95	50	33				
		BXMDC 6.30 m - 7.80 m, Rec. = 1.50 m	99	50	87				
		Hole stopped @ 7.80 m							
10									

GEOLOGISTS REPORT:
Run 1: 4.80 m - 5.30 m: Grey siliceous limestone.
5.30 m - 5.50 m: Grey phyllite.
5.50 m - 6.30 m: Grey quartzite interbedded with phyllite.
Rock is hard, unweathered and competent.

Run 2: Light grey interbedded siliceous limestone and calcareous quartzite. Competent.

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

HOLE NO.: B-4
SHEET 1 OF 1
DATE STARTED: 1/26/96
DATE COMPLETED: 1/29/96

PROJECT NAME: EAST MONTPELIER
SITE NAME: VT 14
STATION: 1+052.10
GROUND EL.: 213.598

PROJECT NUMBER: BRF 037-2(8)
SITE NO.: BR #71
OFFSET: 0.63
G.W. DEPTH:

BORING CREW
CREW CHIEF: MCGLYNN
DRILLER: WILLIS
LOGGER: WARREN
ADDITIONAL CREW:

BORING RIG: TRUCK
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

ABUTMENT NO. 1
TOP OF FOOTING
ELEVATION 208.500

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		NXDC 0.00 m - 0.61 m, Rec. = 0.28 m, concrete							
		BXMDC 0.61 m - 2.44 m, Rec. = 1.50 m, concrete							
		BXMDC 2.13 m - 3.65 m, Rock wall	Bottom of Concrete @ 2.44 m						
		BXMDC 3.65 m - 5.17 m, rock wall							
5		BXMDC 5.17 m - 6.10 m, rock wall, void 6.00 m - 6.10 m	Top of bedrock @ 6.10 m						
		BXMDC 6.10 m - 7.62 m, Rec. = 1.10 m	Rec.%	Dip	Rqd.%				
			72	50	50				
		BXMDC 7.62 m - 9.14 m, Rec. = 1.40 m	92	40	48				
		Hole stopped @ 9.14 m							
10									

GEOLOGISTS REPORT:
Run 1: Grades from light gray calcareous quartzite, grey interbedded calcareous quartzite and siliceous limestone to dark grey phyllite. Hard to moderately hard, fresh. Fractures at 6.3 m, 6.57 m, 6.71 m, 6.81 m, 6.87 m, and 7.02 m. Core is competent.

Run 2: 7.62 m - 7.80 m: Grey calcareous quartzite.
7.80 m - 8.18 m: Quartz vein.
8.18 m - 9.14 m: Dark grey to black phyllite.
Quartzite is hard. Phyllite is moderately hard. Fractures at 7.76 m, 8.18 m, 8.29m ,8.54 m, 8.62m, 8.77m, 8.89 m. Core is competent.

NOTE:
THE STATION AND OFFSETS GIVEN IN THE BORING LOGS ON THIS SHEET ARE NOT RELATIVE TO THE PROPOSED CENTERLINE SHOWN ON THESE PLANS. THE CORRECT STATION AND OFFSET INFORMATION FOR THESE BORINGS IS SHOWN IN THE BORING CHART INCLUDED ON THE BORING LAYOUT SHEET.

VAOT Metric

PROJECT: EAST MONTPELIER	PROJECT NO.: BRF 037-2(8)
DESIGN FILE NAME: 86e054/structures/se054bor.dgn IPARM FILE NAME: se054bo2.I	PLOT DATE: 18-AUG-2010
DRAWN BY: S.COENYE	
BORING LOGS (B-1 THROUGH B-4)	SHEET: 18 OF 63