



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

BORING NUMBER: B-1
SHEET 1 of 1
DATE STARTED: 6/09/03
DATE COMPLETED: 6/17/03

PROJECT NAME: EAST MONTPELIER
SITE NAME: BR 74
STATION: 1+272.00
OFFSET: -10.00
VTSPG: N 196542.92 m E 502831.90 m

PROJECT NUMBER: BR 028-3 (36) SC
SITE NUMBER: US 2
GROUND ELEVATION: 205.26 m
GROUNDWATER DEPTH: 3.50 m 6/17/03
PROJECT PIN NUMBER: 98B254

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY:

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
2		BXGDC, Boulder, 1.50 m - 1.90 m					
4		Not enough sample, Appears to be SiSa, brn, Moist, 3.00 m - 3.60 m	5				
4		Not enough sample, Appears to be SiSa, gry, Moist, 4.50 m - 5.10 m	4				
6		A-2-4, Sa, gry, Moist, Rec. = 0.35 m	11	20.2	0.1	89.1	10.8
8		A-3, Sa, gry, Moist, Rec. = 0.31 m	12	21.5	1.9	92.0	6.1
10		A-1-b, Sa, gry, Moist, Rec. = 0.32 m	13	20.2	1.0	95.0	4.0
10		A-1-b, Sa, gry, Moist, Rec. = 0.42 m	20	15.8	0.1	93.8	6.1
12		A-1-b, Sa, gry, Moist, Rec. = 0.14 m	13	18.6	0.7	91.8	7.5
14		A-1-b, Sa, gry, Moist, Rec. = 0.28 m	12	17.5	4.8	89.2	6.0
16		A-1-b, Sa, gry, Moist, Rec. = 0.23 m	17	15.9	19.9	75.7	4.4
16		A-1-b, Sa, gry, Moist, Rec. = 0.33 m	16	14.2	19.5	73.5	7.0
18		A-1-a, SaGr, gry, Moist, Rec. = 0.30 m	14	9.0	51.7	43.3	5.0
20		A-1-a, SaGr, gry, Moist, Rec. = 0.27 m	19	9.8	52.2	43.4	4.4
22		BXDC, Boulders, 20.77 m - 21.07 m					
22		A-1-a, SaGr, gry, Moist, Rec. = 0.27 m	15	6.6	72.7	23.4	3.9
24		BXDC, Boulders, 23.77 m - 24.03 m					
26		A-1-b, Sa, gry, Moist, Rec. = 0.27 m	26	14.3	11.0	80.3	8.7
28		Not enough sample, Appears to be SaGr, gry, Moist, 27.00 m - 27.60 m	24				
28		BXGDC, Cleaned casing and cored ahead, No Rec. at 28.5m, Appears to be SaGr, 27.90 m - 29.40 m					
30		BXMDC, Boulders, 30.00 m - 36.30 m					
32							
34							
36							
36		Hole stopped @ 36.30 m					
38							

LOG OF BORING EAST MONTPELIER BR028-3(36)SC.GPJ VT.AOT.GDT 8/25/06



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BORING NUMBER: B-3
 SHEET 1 of 1
 DATE STARTED: 7/10/03
 DATE COMPLETED: 7/15/03

PROJECT NAME: EAST MONTPELIER
 SITE NAME: BR 74
 STATION: 1+267.00
 OFFSET: 11.60
 VTSPG: N 196521.48 m E 502826.27 m

PROJECT NUMBER: BRF 028-3 (36) SC
 SITE NUMBER: US 2
 GROUND ELEVATION: 204.16 m
 GROUNDWATER DEPTH: 4.20 m 7/15/03
 PROJECT PIN NUMBER: 98B254

BORING CREW
 CREW CHIEF: YOUNG
 DRILLER: YOUNG
 LOGGER: SOMERS

BORING RIG: LAG TRACK RIG
 BORING TYPE: WASH BORE
 SAMPLE TYPE:
 CHECKED BY:

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
2	[Cross-hatched pattern]	No sampling was performed on this hole, 0.00 m - 31.50 m					
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
32	[Circle pattern]	BXGDC, Cobbles & Boulders, 31.50 m - 36.30 m					
36		Hole stopped @ 36.30 m					
38							

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 SUBSURFACE INFORMATION

BORING NUMBER: B-4
 SHEET 1 of 1
 DATE STARTED: 7/16/03
 DATE COMPLETED: 7/18/03

PROJECT NAME: EAST MONTPELIER
 SITE NAME: BR 74
 STATION: 1+312.00
 OFFSET: -11.65
 VTSPG: N 196543.43 m E 502871.91 m

PROJECT NUMBER: BR 028-3 (36) SC
 SITE NUMBER: US 2
 GROUND ELEVATION: 202.67 m
 GROUNDWATER DEPTH: 2.60 m 7/18/03
 PROJECT PIN NUMBER: 98B254

BORING CREW
 CREW CHIEF: YOUNG
 DRILLER: YOUNG
 LOGGER: SOMERS

BORING RIG: LAG TRACK RIG
 BORING TYPE: WASH BORE
 SAMPLE TYPE:
 CHECKED BY:

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/0.3m)
No sampling was performed on this hole, 0.00 m - 34.10 m							
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
34.10		Top of Bedrock @ 34.10 m					
34.10 - 35.30		Dark gray, interbedded quartzite and slate with biotite porphyroblasts, Poor RQD, Moderately hard, Unweathered, BXGDC, 34.10 m - 35.30 m, Rec. = 0.71 m	1	59	38	50	
35.30 - 36.50		Dark gray, interbedded quartzite and slate with biotite porphyroblasts, Poor RQD, Moderately hard, Unweathered, BXDC, 35.30 m - 36.50 m, Rec. = 0.70 m	2	58	0	50	
36.50 - 38.00		Dark gray, Slate, Poor RQD, Moderately hard, Unweathered, BXDC, 36.50 m - 38.00 m, Rec. = 0.63 m	3	42	0	50	
38.00		Hole stopped @ 38.00 m					

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BORING NUMBER: B-6
SHEET 1 of 1
DATE STARTED: 6/04/03
DATE COMPLETED: 6/06/03

PROJECT NAME: EAST MONTPELIER
SITE NAME: BR 74
STATION: 1+309.00
OFFSET: 8.00
VTSPG: N 196523.85 m E 502868.37 m

PROJECT NUMBER: BRF 028-3 (36) SC
SITE NUMBER: US 2
GROUND ELEVATION: 204.40 m
GROUNDWATER DEPTH: 3.55 m 6/09/03
PROJECT PIN NUMBER: 98B254

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

BORING RIG: LAG TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY:

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/0.3m)
2		A-2-4, Sa, brn, Moist, Rec. = 0.33 m	3	19.8	2.7	79.8	17.5
		A-2-4, SiSa, brn, Moist, Rec. = 0.35 m	3	27.6	0.2	64.7	35.1
4		A-4, SaSi, brn, Wet, Rec. = 0.60 m	1	36.1	0.1	40.3	59.6
		A-4, SiSa with Wood material, brn-gry, Moist, Rec. = 0.47 m	3	42.6	0.0	52.4	47.6
6		A-4, SaSi, gry, Moist, Rec. = 0.37 m	9	22.4	19.2	33.2	47.6
		A-4, Si, gry, Moist, Rec. = 0.50 m	10	33.9	0.0	0.5	99.5
8		A-4, Si, gry, Moist, Rec. = 0.43 m	9	34.0	0.1	1.3	98.6
		A-4, Si, gry, Moist, Rec. = 0.44 m	12	31.2	0.0	1.8	98.2
10		A-4, Si, gry, Moist, Rec. = 0.48 m	11	35.1	0.0	1.9	98.1
		A-4, Si, gry, Moist, Rec. = 0.59 m	9	35.5	0.0	0.9	99.1
12		A-4, Si, gry, Moist, Rec. = 0.60 m	9	35.6	0.0	1.4	98.6
		A-4, Si, gry, Moist, Rec. = 0.60 m	9	34.5	0.0	0.8	99.2
14		A-4, Si, gry, Moist, Rec. = 0.55 m	9	27.2	0.1	13.2	86.7
16		A-4, SaSi, gry, Moist, Rec. = 0.56 m	7	25.7	0.0	27.1	72.9
		A-4, SiSa, gry, Moist, Rec. = 0.55 m	21	24.3	0.0	55.7	44.3
18		A-2-4, SiSa, gry, Moist, Rec. = 0.55 m	29	21.7	0.3	67.3	32.4
20		A-2-4, SiSa, gry, Moist, Rec. = 0.60 m	31	21.0	0.0	78.1	21.9
22		A-2-4, Sa, gry, Moist, Rec. = 0.33 m	29	21.4	0.0	80.4	19.6
24		A-1-b, Sa, gry, Moist, Rec. = 0.33 m	21	17.7	0.4	91.8	7.8
		A-2-4, Sa, gry, Moist, Rec. = 0.30 m	23	17.1	0.4	83.1	16.5
26		A-2-4, Sa, gry, Moist, Rec. = 0.29 m	25	18.4	0.4	87.5	12.1
28		A-1-b, Sa, gry, Moist, Rec. = 0.28 m	40	14.3	3.7	87.8	8.5
		A-4, SaSi, gry, Moist, Rec. = 0.30 m	23.7	2.2	33.4	64.4	
		A-1-b, GfSa, gry, Moist, Rec. = 0.41 m	29	11.0	34.8	55.6	9.6
30		A-4, SiSa, gry, Moist, Rec. = 0.43 m	62	18.8	0.1	63.1	36.8
		Light gray, Meta-Limestone, Top 0.2m may be softer than rest of core, Massively bedded, Unable to determine dip of rock, Competent, Hard, Unweathered, NXGDC, 31.25 m - 32.75 m, Rec. = 1.49 m	1	99	85		
32		Light gray, Meta-Limestone, Top 0.2m may be softer than rest of core, Massively bedded, Unable to determine dip of rock, Competent, Hard, Unweathered, NXGDC, 32.75 m - 34.25 m, Rec. = 1.36 m	2	91	91		
34		Hole stopped @ 34.25 m					
36							
38							

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