



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

BORING NUMBER: B-101  
 SHEET 1 of 1  
 DATE STARTED: 7/10/07  
 DATE COMPLETED: 7/10/07

PROJECT NAME: MONTPELIER  
 SITE NAME:  
 STATION:  
 OFFSET:  
 VTSPG: N 641981.33 ft E 1618841.73 ft

PROJECT NUMBER: ITS FIBER OPTIC  
 SITE NUMBER:  
 GROUND ELEVATION:  
 GROUNDWATER DEPTH: 13.5 ft 7/10/07  
 PROJECT PIN NUMBER: 07L002

BORING CREW  
 CREW CHIEF: GARROW  
 DRILLER: GARROW  
 LOGGER: CARRIERE

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		Asphalt Pavement, 0.0 ft - 0.4 ft	17	9.3	42.0	42.1	15.9
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft					
		A-2-4, SiGrSa with particles of broken brick and coal, brn, Moist, Rec. = 0.8 ft, (Fill Material)	10	16.0	30.9	39.9	29.2
5		No Recovery, 5.0 ft - 7.0 ft	5				
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.7 ft	16	15.8	32.7	35.1	32.2
10		No Recovery, 9.0 ft - 11.0 ft	8				
		A-2-4, Sa, brn, Moist, Rec. = 1.2 ft	5	15.6	10.4	72.8	16.8
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	6	17.5	22.4	67.5	10.1
15		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	6	16.5	42.2	51.4	6.4
		A-1-b, Sa, red-brn, Moist, Rec. = 0.7 ft, Lab Note: Sample turned a very rusty color during wash.	6	26.6	16.2	73.7	10.1
		Hole stopped @ 17.0 ft					

LOG OF BORING - MONTPELIER - ITS FIBER OPTIC.GPJ - VT AOT.GDT - 8/6/07



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

BORING NUMBER: B-102  
 SHEET 1 of 1  
 DATE STARTED: 7/10/07  
 DATE COMPLETED: 7/10/07

PROJECT NAME: MONTPELIER  
 SITE NAME:  
 STATION:  
 OFFSET:  
 VTSPG: N 641900.68 ft E 1618865.09 ft

PROJECT NUMBER: ITS FIBER OPTIC  
 SITE NUMBER:  
 GROUND ELEVATION:  
 GROUNDWATER DEPTH: 13.1 ft 7/10/07  
 PROJECT PIN NUMBER: 07L002

BORING CREW  
 CREW CHIEF: GARROW  
 DRILLER: GARROW  
 LOGGER: CARRIERE

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0.0 - 0.4		Asphalt Pavement, 0.0 ft - 0.4 ft	16	8.8	38.0	39.0	23.0
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.6 ft, Lab Note: Particles of coal were within sample.					
5		A-2-4, GrSiSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Particles of coal were within sample.	7	15.5	24.7	44.9	30.4
10		A-4, SaSi, brn, MTW, Rec. = 1.8 ft	4	34.2	0.0	46.6	53.4
15		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft	4	18.3	26.6	66.4	7.0
20		A-4, Si, gry, MTW, Rec. = 0.8 ft	10	32.0	2.8	3.3	93.9
23.0 - 25.0		No Recovery, 23.0 ft - 25.0 ft	12				
25		Hole stopped @ 25.0 ft					

LOG OF BORING - MONTPELIER ITS FIBER OPTIC.GPJ VT AOT.GDT 8/6/07



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

BORING NUMBER: B-103  
 SHEET 1 of 1  
 DATE STARTED: 7/11/07  
 DATE COMPLETED: 7/12/07

PROJECT NAME: MONTPELIER  
 SITE NAME:  
 STATION:  
 OFFSET:  
 VTSPG: N 641812.22 ft E 1618882.22 ft

PROJECT NUMBER: ITS FIBER OPTIC  
 SITE NUMBER:  
 GROUND ELEVATION:  
 GROUNDWATER DEPTH: 10.4 ft 7/12/07  
 PROJECT PIN NUMBER: 07L002

BORING CREW  
 CREW CHIEF: GARROW  
 DRILLER: GARROW  
 LOGGER: CARRIERE

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
0.0 - 0.4		Asphalt Pavement, 0.0 ft - 0.4 ft	17	8.1	59.4	30.8	9.8
0.4 - 1.5		A-1-a, SaGr, brn, Moist, Rec. = 1.5 ft					
1.5 - 1.2		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft	4	21.0	8.2	61.2	30.6
1.2 - 0.8		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	19	26.4	5.9	61.0	33.1
0.8 - 14.4		Cored ahead, Cobble, 14.4 ft - 15.0 ft	11				
14.4 - 17.0		No Recovery. Appears to be silt., 15.0 ft - 17.0 ft					
17.0 - 20.0		Field Note, Not enough material for a sample. Appears to be Silt.	11				
20.0 - 1.1		A-4, SiSa, brn, Moist, Rec. = 1.1 ft	10	28.2	0.0	60.6	39.4
1.1 - 0.3		A-3, Sa, brn, Moist, Rec. = 0.3 ft	14	22.8	10.7	81.4	7.9
0.3 - 33.7		Top of Bedrock @ 33.7 ft					
33.7 - 34.3		Greenish gray & tan, Granofels and metadiabase, Hard, Moderately weathered, BXMDC, 33.7 ft - 34.3 ft, Rec. = 4.6 ft	1	92	74	80	20
34.3 - 38.7		Greenish gray, Slaty phyllite, Moderately hard, Unweathered, 34.3 ft - 38.7 ft					15
38.7 - 39.7							4
39.7 - 39.6							4
39.6 - 39.7							4
39.7 - 39.6		Greenish gray & tan, Granofels and metadiabase, Drilling break from 39.7' to 40.7', Poor RQD, Hard, Moderately weathered, BXMDC, 38.7 ft - 39.6 ft, Rec. = 3.4 ft	2	68	24	80	1
39.6 - 43.0		Greenish gray, Slaty phyllite, Moderately hard, Unweathered, 39.6 ft - 43.0 ft					1
43.0 - 43.0							3
43.0 - 43.7		Greenish gray, Greenstone, Moderately hard, Moderately weathered, 43.0 ft - 43.7 ft					3
43.7 - 43.7		Hole stopped @ 43.7 ft					3

LOG OF BORING MONTPELIER ITS FIBER OPTIC.GPJ VT AOT.GDT 8/16/07



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

BORING NUMBER: B-104  
 SHEET 1 of 1  
 DATE STARTED: 7/17/07  
 DATE COMPLETED: 7/18/07

PROJECT NAME: MONTPELIER  
 SITE NAME:  
 STATION:  
 OFFSET:  
 VTSPG: N 641395.70 ft E 1619057.07 ft

PROJECT NUMBER: ITS FIBER OPTIC  
 SITE NUMBER:  
 GROUND ELEVATION:  
 GROUNDWATER DEPTH: Hole Caved In  
 PROJECT PIN NUMBER: 07L002

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		A-4, SaSi, brn, Wet, Rec. = 1.4 ft	3	27.4	18.7	24.2	57.1
		Field Note, 3.8'-4.8', Drilled into possible brick or colored concrete.					
5		A-2-4, SiSaGr, brn, Wet, Rec. = 0.8 ft	14	23.2	36.9	36.2	26.9
		Field Note, 8.7'-10.0', BXDC, Possible bedrock. Rock was poor quality.					
10		Gray, Slate, with thin calcite veins. Poor RQD, Moderately hard, Unweathered, BXMDC, 10.0 ft - 15.0 ft, Rec. = 2.6 ft	1	52	32	80	4
							5
							6
							8
							4
15		Gray, Slate, with thin calcite veins. Poor recovery and RQD, Moderately hard, Unweathered, BXMDC, 15.0 ft - 20.0 ft, Rec. = 1.1 ft	2	22	10	80	6
							5
							3
							4
							3
20		Hole stopped @ 20.0 ft					
25							

LOG OF BORING - MONTPELIER - ITS FIBER OPTIC.GPJ - VT AOT.GDT - 8/6/07



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

BORING NUMBER: B-105  
 SHEET 1 of 1  
 DATE STARTED: 7/16/07  
 DATE COMPLETED: 7/17/07

PROJECT NAME: MONTPELIER  
 SITE NAME:  
 STATION:  
 OFFSET:  
 VTSPG: N 641297.06 ft E 1619091.35 ft

PROJECT NUMBER: ITS FIBER OPTIC  
 SITE NUMBER:  
 GROUND ELEVATION:  
 GROUNDWATER DEPTH: Hole Caved In  
 PROJECT PIN NUMBER: 07L002

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Field Class., Cobbles mixed with silty sand material.	R				
		A-2-4, GrSiSa, brn, Moist, Sample taken by hand.		26.8	28.1	41.7	30.2
		A-2-4, SaSiGr with decayed wood, brn, Moist, Rec. = 1.6 ft	5	27.6	35.7	30.3	34.0
		Top of Bedrock @ 4.0 ft					
5		Gray, Slate, with thin calcite veins. Poor RQD, Moderately hard, Unweathered, BXMDC, 4.0 ft - 9.0 ft, Rec. = 2.6 ft	1	52	30		3
							5
							9
							5
							4
10		Gray, Slate, with thin calcite veins. Poor recovery and RQD, Moderately hard, Unweathered, BXMDC, 9.0 ft - 14.0 ft, Rec. = 1.9 ft	2	38	15		5
							5
							4
							5
							4
15		Hole stopped @ 14.0 ft					
20							
25							

LOG OF BORING - MONTPELIER - ITS FIBER OPTIC.GPJ - VT.AOT.GDT - 8/16/07