



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

BORING LOG

JAMAICA  
ER-BRF 013-1(16)  
VT-100 BR-78

Boring No.: B-101

Page No.: 1 of 1

Pin No.: 11B212

Checked By: CEE

Boring Crew: GARROW, SALISBURY, WELLS  
Date Started: 2/15/12 Date Finished: 2/15/12  
VTSPG NAD83: N 206579.60 ft E 1572802.90 ft  
Station: 122+62 Offset: 14.00  
Ground Elevation: 684.4 ft

Casing: WB  
Sampler: SS  
Type: WB 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 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.4 ft					
		A-1-a, SaGr, brn, Moist, Broken Rock was within sample.	36-R@6.0"	15.4	53.5	36.5	10.0
		Field Note:, NXDC, Boulder					
5		Field Note:, No Recovery., Stone in sampler.	4-5-6-8 (11)				
		Field Note:, NXDC, Cobbles					
		A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft	4-9-9-7 (18)	20.0	3.5	71.0	25.5
10		Visual Classification, Broken Rock with Sandy Gravel, brn, Moist, Rec. = 0.7 ft, NXDC, Encountered Cobbles when advancing casing. Insufficient sample for testing.	8-9-10-40 (19)	7.4			
		Visual Classification, Broken Rock with Sandy Gravel, gry, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	8-R@6.0"	8.0			
15		Field Note:, NXDC, Cobbles					
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft, Pulled casing and changed bit. NXDC, Encountered Cobbles when advancing casing.	3-6-7-22 (13)	15.4	37.1	51.4	11.5
		A-2-4, SiSaGr, brn, Moist, Rec. = 0.7 ft	3-6-17-14 (23)	14.1	43.5	28.9	27.6
20							
		A-4, SaSi, gry, Moist, Rec. = 1.7 ft	19-27-32-37 (59)	19.6	0.4	28.1	71.5
25							
		A-4, SaSi, gry, Moist, Rec. = 1.5 ft	20-35-R@6.0"	20.7		34.7	65.3
30							
		A-4, Si, gry, Moist, Rec. = 2.0 ft	17-31-39-37 (70)	22.2	3.1	18.4	78.5
35							
		A-4, Si, gry, Moist, Rec. = 1.6 ft	13-23-30-40 (53)	21.7	0.4	10.8	88.8
40							
		A-4, SaSi, gry, Moist, Rec. = 1.6 ft	27-24-40-R@6.0"	15.4	1.2	30.8	68.0
45		Hole stopped @ 45.0 ft	(64)				

Notes:

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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 JAMAICA ER-BRF 013-1(16).GPJ VERMONT AOT.GDT 2/24/12



BORING LOG

JAMAICA  
ER-BRF 013-1(16)  
VT-100 BR-78

Boring No.: B-102  
Page No.: 1 of 2  
Pin No.: 11B212  
Checked By: CEE

Boring Crew: GARROW, SALISBURY  
Date Started: 2/08/12 Date Finished: 2/14/12  
VTSFG NAD83: N 206527.20 ft E 1572732.90 ft  
Station: 121+79 Offset: -16.00  
Ground Elevation: 680.3 ft

Type:	Casing	Sampler	Groundwater Observations		
			Date	Depth (ft)	Notes
I.D.: 4 in	WB	SS			
Hammer Wt: N.A.	4 in	1.5 in			
Hammer Fall: N.A.	140 lb.		02/09/12	10.2	AM
Hammer/Rod Type: Auto/AWJ	30 in.		02/14/12	14.7	AM
Rig: CME 45C TRACK	CE = 1.34				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lip deg.)	Core Rec. (ROD %) %	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
10		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft, NXDC, Encountered Cobbles when advancing casing.				12-10-8	10.1	58.1	32.2	9.7		
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft, NXDC, Encountered Cobbles when advancing casing.				10-9-8	12.2	43.0	43.9	13.1		
		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft, NXDC, Encountered Cobbles when advancing casing.				19	11.9	62.1	28.4	9.5		
		A-1-b, GrSa, brn, Moist, Rec. = 0.9 ft, NXDC, Encountered Cobbles when advancing casing.				2-5-5-5	16.5	38.8	47.9	13.3		
		A-2-4, SiSa, brn, Moist, Rec. = 0.9 ft				42-14-5-4	29.2	11.8	67.0	21.2		
		A-1-b, GrSa, brn, MTW, Rec. = 0.9 ft				3-2-1-1	18.3	44.4	49.4	6.2		
		A-1-a, SaGr, brn, MTW, Rec. = 0.9 ft, NXDC, Encountered Cobbles when advancing casing.				4-10-13	11.8	58.1	33.4	8.5		
		A-4, SaSi, gry, Moist, Rec. = 0.8 ft				9-9-13	18.7	15.2	29.4	55.4		
		A-4, Si, gry, Moist, Rec. = 1.7 ft				20	18.1	6.6	15.1	78.3	22	4
		A-4, Si, gry, Moist, Rec. = 2.0 ft				13-17	21.9		11.0	89.0		
20		A-4, Si, gry, MTD, Rec. = 1.9 ft				20-30	19.6	17.8	82.2			
		A-4, Si, gry, MTD, Rec. = 1.9 ft				10-15	19.4	17.9	82.1			
		A-4, SaSi, gry, MTD, Rec. = 1.8 ft				25-33	18.4	20.0	80.0			
		A-4, SaSi, gry, Moist, Rec. = 2.0 ft				35-45	21.5	24.1	75.9			
		A-4, Si, gry, Moist, Rec. = 2.0 ft				20-30	21.0	1.0	15.9	83.1	23	2
		A-4, Si, gry, Moist, Rec. = 2.0 ft				36-42	16.3	17.0	83.0			
		A-4, Si, gry, Moist, Rec. = 2.0 ft				18-28	18.9	0.6	13.0	86.4		
		A-4, Si, gry, Moist, Rec. = 2.0 ft				32-50	21.5	46.0	54.0			
		A-4, Si, gry, Moist, Rec. = 1.9 ft				20-26	15.7	3.5	17.5	79.0		
		A-4, Si, gry, MTD, Rec. = 1.0 ft				13-17	16.4	0.6	14.5	84.9		
30		A-4, Si, gry, Moist, Rec. = 2.0 ft				36-42						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				62						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				13-17						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				32-50						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				49						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				27-24						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				27-24						
		A-4, Si, gry, Moist, Rec. = 2.0 ft				51						
		A-4, Si, gry, Moist, Rec. = 1.9 ft				22-32						
		A-4, Si, gry, Moist, Rec. = 1.9 ft				42-53						
40		A-4, Si, gry, Moist, Rec. = 1.9 ft				74						
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				31-36						
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				28-41						
		A-4, Si, gry, MTD, Rec. = 1.0 ft				62						
		A-4, Si, gry, MTD, Rec. = 1.0 ft				30-50						
		A-4, Si, gry, MTD, Rec. = 1.0 ft				RO0.0"						
		A-4, Si, gry, MTD, Rec. = 0.5 ft				RO6.0"						
		A-4, Si, gry, MTD, Rec. = 0.5 ft				RO6.0"						
		A-4, Si, gry, MTD, Rec. = 0.5 ft				RO6.0"						
		A-4, Si, gry, MTD, Rec. = 0.5 ft				RO6.0"						

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



BORING LOG

JAMAICA  
ER-BRF 013-1(16)  
VT-100 BR-78

Boring No.: B-102  
Page No.: 2 of 2  
Pin No.: 11B212  
Checked By: CEE

Boring Crew: GARROW, SALISBURY  
Date Started: 2/08/12 Date Finished: 2/14/12  
VTSFG NAD83: N 206527.20 ft E 1572732.90 ft  
Station: 121+79 Offset: -16.00  
Ground Elevation: 680.3 ft

Type:	Casing	Sampler	Groundwater Observations		
			Date	Depth (ft)	Notes
I.D.: 4 in	WB	SS			
Hammer Wt: N.A.	4 in	1.5 in			
Hammer Fall: N.A.	140 lb.		02/09/12	10.2	AM
Hammer/Rod Type: Auto/AWJ	30 in.		02/14/12	14.7	AM
Rig: CME 45C TRACK	CE = 1.34				

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lip deg.)	Core Rec. (ROD %) %	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
													Gravel %
60		A-4, SaSi, gry, MTD, Rec. = 0.9 ft				43-RO4.5"	16.4		25.7	74.3			
		A-4, Si, gry, MTD, Rec. = 1.0 ft				27-RO6.0"	20.1		5.0	95.0			
		A-4, SaSi, gry, MTD, Rec. = 0.9 ft				35-RO6.0"	15.5	2.7	21.6	75.7			
		A-4, SaSi, gry, MTD, Rec. = 0.9 ft				32-RO6.0"	17.3	2.0	20.4	77.6			
		A-4, SaSi, gry, MTD, Rec. = 1.0 ft				15-RO6.0"	16.1	7.1	23.3	69.6			
		Field Note, NXDC, Cobbles & Gravel											
		A-2-4, GrSa, gry, Moist, Rec. = 0.7 ft, Broken Rock was within sample.					9-75-RO2.5"	17.1	35.4	53.8	10.8		
		Field Note, NXDC, Boulder											
		93.2 ft - 98.2 ft, Buff white, Dolomitic Marble, Hard, Unweathered, Good rock, NXMDC, RMR = 72		1	100	12							Top of Bedrock @ 93.2 ft
		98.2 ft - 103.2 ft, Buff white, Dolomitic Marble, Hard, Unweathered, Good rock, NXMDC, RMR = 72		2	100	5							
100		Hole stopped @ 103.2 ft											
		Hole stopped @ 103.2 ft											
		Hole stopped @ 103.2 ft											
		Hole stopped @ 103.2 ft											
		Hole stopped @ 103.2 ft											
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Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



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BORING LOG

JAMAICA  
ER-BRF 013-1(16)  
VT-100 BR-78

Boring No.: 8-103  
Page No.: 1 of 2  
Pin No.: 11B212  
Checked By: CEE

Boring Crew: GARROW, SALISBURY  
Date Started: 2/02/12 Date Finished: 2/07/12  
VTSFG NAD83: N 206325.50 ft E 1572615.70 ft  
Station: 119+47 Offset: 2.50  
Ground Elevation: 687.9 ft

Casing Sampler  
Type: WB 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 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
02/03/12	16.3	AM
02/06/12	10.4	AM
02/08/12	8.6	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Op deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5	[Pattern]	A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft				22-25-20-15 (45)	9.6	53.0	36.9	10.1
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, NXDC, Encountered Cobbles when advancing casing.				7-9-9-18 (18)	11.3	48.5	38.0	13.5
10	[Pattern]	A-1-a, SaGr, gry-brn, Moist, Rec. = 1.0 ft, NXDC, Encountered Gravel when advancing casing.				17-18-17-20 (35)	9.4	60.1	30.1	9.8
		A-1-b, GrSa, gry, Moist, Rec. = 0.5 ft, NXDC, Encountered Cobbles when advancing casing.				5-13-12-5 (25)	10.4	42.2	48.0	9.8
		A-1-a, SaGr, gry, Moist, Rec. = 0.7 ft, NXDC, Encountered Cobbles when advancing casing.				18-11-8-8 (19)	10.8	55.1	37.3	7.6
		A-1-b, SaGr with Broken Rock, gry, Moist, Rec. = 1.2 ft, NXDC, Encountered Cobbles when advancing casing.				15-14-23-22 (37)	10.8	47.1	43.8	9.1
15	[Pattern]	Field Note: NXDC, Cobbles and Gravel								
20	[Pattern]	A-1-b, GrSa, gry, Moist, Rec. = 0.7 ft, NXDC, Encountered Cobbles when advancing casing.				7-12-17-30 (29)	11.3	41.2	46.5	12.3
		Field Note: NXDC, Cobbles								
25	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 2.0 ft, NXDC, Encountered Gravel when advancing casing.				10-20-24-30 (44)	16.8	2.8	34.6	62.6
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				24-22-24-26 (46)	17.4	2.3	22.3	75.4
		A-4, SaSi, gry, Moist, Rec. = 1.8 ft				19-25-22-25 (47)	18.3	0.2	29.8	70.0
		A-4, SaSi, gry, Moist, Rec. = 2.0 ft				14-21-24-28 (45)	19.4	9.5	45.1	45.4
35	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 1.5 ft				42-32-36-36 (66)	14.3	18.0	29.2	52.8
40	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 2.0 ft				26-31-35-43 (66)	18.3	0.8	32.1	67.1
	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 0.9 ft				43-RO6.0"	15.1	0.2	24.2	75.6

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.



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BORING LOG

JAMAICA  
ER-BRF 013-1(16)  
VT-100 BR-78

Boring No.: 8-103  
Page No.: 2 of 2  
Pin No.: 11B212  
Checked By: CEE

Boring Crew: GARROW, SALISBURY  
Date Started: 2/02/12 Date Finished: 2/07/12  
VTSFG NAD83: N 206325.50 ft E 1572615.70 ft  
Station: 119+47 Offset: 2.50  
Ground Elevation: 687.9 ft

Casing Sampler  
Type: WB 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 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
02/03/12	16.3	AM
02/06/12	10.4	AM
02/08/12	8.6	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Op deg.)	Core Rec. (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50	[Pattern]	A-4, SaSi, gry, MTD, Rec. = 1.0 ft				36-62-RO0.0"	16.4	2.7	27.6	69.7
55	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 0.8 ft				40-RO3.5"	15.5	13.3	37.3	49.4
60	[Pattern]	A-4, SaSi, gry, Moist, Rec. = 0.8 ft				40-RO3.5"	16.8	19.2	34.3	46.5
65	[Pattern]	A-4, GrSaSi, gry, MTD, Rec. = 0.3 ft				RO3.5"	13.3	23.1	33.5	43.4
70	[Pattern]	A-2-4, SiSa, gry, MTD, Rec. = 0.5 ft				50-RO2.5"	9.4	18.3	47.6	34.1
		Field Note: NXDC, Cobbles and Gravel								
75	[Pattern]	A-2-4, GrSiSa, grn-gry, MTD, Rec. = 0.2 ft				RO2.5"	11.5	24.4	42.1	33.5
		Field Note: NXDC, Cobbles								
80	[Pattern]	75.2 ft - 77.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 72	1 (40)	100 (65)	6	5				
		77.2 ft - 82.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 76	2 (40)	100 (86)	7	4				
85	[Pattern]	82.2 ft - 85.2 ft, Light gray to dark gray, Biolite-quartz-plagioclase Gneiss, Hard, Unweathered, Good rock, NXMDC, RMR = 72	3 (40)	80 (70)	4	5				
		Hole stopped @ 85.2 ft								

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BORING LOG 2 JAMAICA ER-BRF 013-1(16) (LP) VERMONT AOT.GDT 2/24/12

BORING LOG 2 JAMAICA ER-BRF 013-1(16) (LP) VERMONT AOT.GDT 2/24/12



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BORING LOG	Boring No.:	B-104
	Page No.:	1 of 2
JAMAICA	Pin No.:	11B212
ER-BRF 013-1(16)	Checked By:	CEE
VT-100 BR-78		

Boring Crew:	GARROW, SALISBURY, WELLS	Casing	WB	Sampler	SS	Groundwater Observations					
Date Started:	2/15/12	Date Finished:	2/16/12	Type:	4 in	1.5 in	Date	Depth (ft)	Notes		
VTSFG NAD83:	N 206425.10 ft	E 1572663.20 ft	Hammer Wt:	N.A.	140 lb.				See Remarks #1.		
Station:	120+56	Offset:	-15.00	Hammer Fall:	N.A.	30 in.					
Ground Elevation:	665.5 ft			Hammer/Rod Type:	Auto/AWJ						
				Rig:	CME 45C TRACK	CE = 1.34					

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		Field Note: NXDC, Gravel A-1-a, SaGr, gry, Moist, Rec. = 1.0 ft				7-7-9-6 (16)	9.5	68.4	25.7	5.9		
10		Field Note: NXDC, Gravel A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft				16-10-20- RØ1.0" (30)	8.9	72.9	20.7	6.4		
15		Field Note: NXDC, Cobbles A-4, Si, gry, Moist, Rec. = 1.7 ft				20-23-30-42 (53)	19.4	0.3	15.9	83.8		
20		A-4, Si, gry, MTD, Rec. = 1.6 ft				30-43-40-50 (83)	15.3		15.2	84.8		
25		A-4, Si, gry, MTD, Rec. = 1.6 ft				15-26-26-35 (52)	16.0	0.1	16.0	83.9		
30		A-4, SaSi, gry, Moist, Rec. = 1.6 ft				27-26-40-50 (66)	16.5	0.1	21.7	78.2		
35		A-4, Si, gry, Moist, Rec. = 1.6 ft				17-43-45-50 (88)	19.0		10.0	90.0	29	5
40		A-4, Si, gry, MTD, Rec. = 1.5 ft				30-36- RØ6.0"	15.9		7.7	92.3	28	5
		A-4, SaSi, gry, Moist, Rec. = 0.8 ft				43- RØ5.0"	16.6		26.2	73.8		

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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BORING LOG	Boring No.:	B-104
	Page No.:	2 of 2
JAMAICA	Pin No.:	11B212
ER-BRF 013-1(16)	Checked By:	CEE
VT-100 BR-78		

Boring Crew:	GARROW, SALISBURY, WELLS	Casing	WB	Sampler	SS	Groundwater Observations					
Date Started:	2/15/12	Date Finished:	2/16/12	Type:	4 in	1.5 in	Date	Depth (ft)	Notes		
VTSFG NAD83:	N 206425.10 ft	E 1572663.20 ft	Hammer Wt:	N.A.	140 lb.				See Remarks #1.		
Station:	120+56	Offset:	-15.00	Hammer Fall:	N.A.	30 in.					
Ground Elevation:	665.5 ft			Hammer/Rod Type:	Auto/AWJ						
				Rig:	CME 45C TRACK	CE = 1.34					

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. (ROD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
50		A-4, SaSi, gry, Moist, Rec. = 0.9 ft				23- RØ5.0"	22.1	0.5	24.0	75.5		
55		A-4, SaGrSi, gry, Moist, Rec. = 0.4 ft				RØ5.0"	10.4	31.0	25.9	43.1		
60		Field Note: NXDC, Cobbles & Gravel A-4, GrSiSa, gry, Moist, Rec. = 0.3 ft				RØ3.5"	9.7	24.3	39.1	36.6		
65		A-1-b, SaGr, gry, Moist, Rec. = 0.3 ft, Broken Rock was within sample.				RØ3.5"	8.9	50.2	32.9	16.9		
70		Field Note: NXDC, Boulder										
75		73.5 ft - 78.5 ft, Buff white, Dolomitic Marble, Hard, Unweathered, Good rock, NXMDC, RMR = 62	1 (?)	100 (20)	15 10 10 9 9						Top of Bedrock	73.5 ft
80		78.5 ft - 83.5 ft, Buff white, Dolomitic Marble, Hard, Unweathered, Good rock, NXMDC, RMR = 48	2 (?)	78 (48)	10 5 5 3 4							
85		Hole stopped @ 83.5 ft										

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 JAMAICA EF-BRF 013-1(16) GPJ VERMONT AOT.GDT 2/24/12

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