

BORING LOG		Boring No.: <b>B-102</b>	
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		Page No.: <b>1 of 3</b>	
<b>BRUNSWICK BF 0271(23) VT-102 BR-6</b>		Pln No.: <b>13C056</b>	
Checked By: <b>END</b>		Checked By: <b>END</b>	
Boring Crew: <u>GARROW, HOOK, NIETO</u>		Casing Sampler	
Date Started: <u>9/09/14</u> Date Finished: <u>9/17/14</u>		L.D.: <u>4 in</u> <u>1.5 in</u>	
VTSPG NAD83: <u>N 801914,92 ft E 1873682,66 ft</u>		Hammer Wt: <u>N.A.</u> <u>140 lb.</u>	
Station: <u>13+77</u> Offset: <u>18,00</u>		Hammer Fall: <u>N.A.</u> <u>30 in.</u>	
Ground Elevation: <u>875,85 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>	
Rlg: <u>CME 55 TRACK</u>		C: <u>1.46</u>	
Groundwater Observations		Date	
Type:		Depth (ft)	
09/10/14		11.4	
09/11/14		5.6	
09/11/14		137.0	
Notes		After 14 hrs.	
		After 12 hrs.	
		Aquifer, See Remark	

  

Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate (min/sect)	Blow # (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-2	XXX	Field Note: Fill material was added for drill rig platform, Fill material was Broken Rock, Gravel, and Sand.				2-4-2-1 (6)				
2-1	XXX					2-1-1-3 (2)	4.3			
3-4	XXX					3-4-9-6 (19)	5.7	82.7	13.7	3.6
4-5	XXX					4-5-4-4 (9)	6.4	64.4	29.5	6.1
5-2	XXX					5-2-4-4 (5)	11.9	38.0	53.9	8.1
13-13	XXX					13-13-22-30 (36)	9.8	48.1	42.5	9.4
22-30	XXX					9-29-35-26 (64)	13.1	24.1	55.3	20.6
9-29	XXX					47-15-12-5 (28)	24.4	4.2	65.8	30.3
6-3	XXX	A-2-4, SiSa, gry, MTW, Rec. = 0.9 ft				26.1	0.4	85.9	13.7	
1-2	XXX	A-2-4, Sa, gry, MTW, Rec. = 0.9 ft				6-3-3-3 (6)	24.0	0.2	62.6	37.2
1-2	XXX	A-4, SiSa, gry, MTW, Rec. = 1.0 ft				1-2-1-2 (3)				
1-2	XXX					WH-1-2-2 (3)				
1-3	XXX	A-3, Sa, gry, MTW, Rec. = 0.7 ft				1-3-3-3 (6)	20.6	5.2	91.3	3.5
Field Note: Open hole drilling. Sampled with NWJ rod										
5-6	XXX	A-2-4, Sa, gry, MTW, Rec. = 1.0 ft				5-6-6-8 (11)	20.6	0.4	81.5	18.1
1-5	XXX	A-1-b, Sa, gry, Molst, Rec. = 2.0 ft				1-5-9-11 (14)	16.7	5.1	87.9	7.0
2-6	XXX	A-2-4, Sa, gry, MTW, Rec. = 1.1 ft				2-6-10-9 (16)	20.1	1.4	82.9	15.7

  

Notes:										
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<b>BRUNSWICK BF 0271(23) VT-102 BR-6</b>		Pln No.: <b>13C056</b>	
Checked By: <b>END</b>		Checked By: <b>END</b>	
Boring Crew: <u>GARROW, HOOK, NIETO</u>		Casing Sampler	
Date Started: <u>9/09/14</u> Date Finished: <u>9/17/14</u>		L.D.: <u>4 in</u> <u>1.5 in</u>	
VTSPG NAD83: <u>N 801914,92 ft E 1873682,66 ft</u>		Hammer Wt: <u>N.A.</u> <u>140 lb.</u>	
Station: <u>13+77</u> Offset: <u>18,00</u>		Hammer Fall: <u>N.A.</u> <u>30 in.</u>	
Ground Elevation: <u>875,85 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>	
Rlg: <u>CME 55 TRACK</u>		C: <u>1.46</u>	
Groundwater Observations		Date	
Type:		Depth (ft)	
09/10/14		11.4	
09/11/14		5.6	
09/11/14		137.0	
Notes		After 14 hrs.	
		After 12 hrs.	
		Aquifer, See Remark	

  

Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate (min/sect)	Blow # (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
7-8	XXX	A-2-4, SiSa, gry, MTW, Rec. = 1.5 ft				7-8-9-9 (17)	22.1	0.1	78.3	21.5
6-7	XXX	A-4, Si, gry, MTW, Rec. = 1.6 ft				6-6-7-10 (13)	30.3		16.6	83.4
5-8	XXX	Field Note: No Recovery, Appears to be Silty Sand				5-5-8-10 (13)				
2-4	XXX	A-2-4, SiSa, gry, MTW, Rec. = 1.3 ft				2-4-6-10 (10)	22.3	0.2	71.4	28.4
5-8	XXX	A-2-4, SiSa, gry, MTW, Rec. = 0.6 ft				5-8-12-36 (20)	21.6	1.5	71.8	26.7
10-14	XXX	Field Note: Cleaned out with roller cone				10-14-13-15 (27)	23.0		61.0	39.0
14-20	XXX	A-4, SaSi, gry, MTW, Rec. = 1.5 ft				14-20-17-22 (37)	20.5	3.8	44.1	52.1
Field Note: Aquifer at 137.0 ft.										

  

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<b>BRUNSWICK BF 0271(23) VT-102 BR-6</b>		Pln No.: <b>13C056</b>	
Checked By: <b>END</b>		Checked By: <b>END</b>	
Boring Crew: <u>GARROW, HOOK, NIETO</u>		Casing Sampler	
Date Started: <u>9/09/14</u> Date Finished: <u>9/17/14</u>		L.D.: <u>4 in</u> <u>1.5 in</u>	
VTSPG NAD83: <u>N 801914,92 ft E 1873682,66 ft</u>		Hammer Wt: <u>N.A.</u> <u>140 lb.</u>	
Station: <u>13+77</u> Offset: <u>18,00</u>		Hammer Fall: <u>N.A.</u> <u>30 in.</u>	
Ground Elevation: <u>875,85 ft</u>		Hammer/Rod Type: <u>Auto/AWJ</u>	
Rlg: <u>CME 55 TRACK</u>		C: <u>1.46</u>	
Groundwater Observations		Date	
Type:		Depth (ft)	
09/10/14		11.4	
09/11/14		5.6	
09/11/14		137.0	
Notes		After 14 hrs.	
		After 12 hrs.	
		Aquifer, See Remark	

  

Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Dip Rate (min/sect)	Blow # (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
8-10	XXX	A-4, Si, brn, MTW, Rec. = 1.0 ft				8-10-16-21 (26)	24.0		16.0	84.0
Field Note: Sleaved 3.0 inch casing. Sampling with AWJ rod										
7-13	XXX	A-4, SiSa, Ltbrn, MTW, Rec. = 1.0 ft				7-13-16-20 (29)	18.2	3.7	52.9	43.4
11-42	XXX	A-4, SiSa, brn-gry, MTW, Rec. = 1.4 ft				11-42-27-80.5 (69)	18.5	7.0	54.2	38.8
Field Note: Cleaned out with roller cone										
Visual Description: G-Sa with Broken Rock, brn-gry, Moist. Rec. = 0.1 ft. Insufficient sample for testing.						13-19-28-29 (47)				
Field Note: Pulled 3.0 inch casing and changed bit. Advanced to 175.0 ft.										
Field Note: Pulled 3.0 inch casing and changed bit. Advanced to 179.0 ft.										
6-4	XXX	A-2-4, SiG/Sa, Ltbrn, Moist. Rec. = 0.4 ft. Lab Note: Broken Rock was within sample.				6-4-8-12 (12)	14.3	35.8	39.6	24.6
Top of Bedrock @ 182.9 ft										
182.9 ft - 183.9 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard. Unweathered, Falr rock, BXDC, RMR = 42			1	100	5	(None)	(0)			
183.9 ft - 185.9 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard. Unweathered, Falr rock, BXGDC, RMR = 42			2	12	24	(None)	(0)			
185.9 ft - 188.9 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard. Unweathered, Falr rock, BXGDC, RMR = 42			3	96	24	(None)	(0)			
188.9 ft - 193.9 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard. Unweathered, Falr rock, BXGDC, RMR = 42			4	90	7	(None)	(0)			
193.9 ft - 197.9 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard. Unweathered, Falr rock, BXGDC, RMR = 42			5	5	6	(None)	(0)			
Hole stopped @ 197.9 ft			6	6	6					

  

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VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-103</b>			
		<b>BRUNSWICK BF 0271(23) VT-102 BR-6</b>		Page No.: <b>1 of 3</b>		Checked By: <b>END</b>			
Boring Crew: <b>GARROW, HOOK, NIETO</b>		Type: <b>WB</b>	Casing <b>SS</b>	Groundwater Observations					
Date Started: <b>8/21/14</b>	Date Finished: <b>8/29/14</b>	I.D.: <b>4 in</b>	<b>1.5 in</b>	Date	Depth (ft)	Notes			
VTSPG NAD83: <b>N 802008,42 ft E 1873627,34 ft</b>		Hammer Wt: <b>N.A.</b>	<b>140 lb.</b>	08/22/14	11.5	AM			
Station: <b>14+70</b>	Offset: <b>19.00</b>	Hammer Fall: <b>N.A.</b>	<b>30 in.</b>	08/26/14	5.4	Overnight.			
Ground Elevation: <b>873.0 ft</b>		Hammer/Rod Type: <b>Auto/AWJ</b>		08/29/14	4.1	Overnight.			
		Rig: <b>CME 55 TRACK</b>	<b>C = 1.46</b>						
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (Core %)	Drill Rate (ft/min)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	A-2-4, Sa, brn, Molst, Rec. = 0.6 ft, Lab Note: Grass & Roots were within sample.				1.1-1-1	15.1	12.2	70.9	16.9
	A-2-4, Sa, tan-brn, Molst, Rec. = 1.3 ft				1.1-2-2	12.2	0.1	82.2	17.7
	A-1-b, GrSa, L/brn, Molst, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.				3-7-11-16	5.2	33.5	62.3	4.2
	A-1-a, SaGr, L/rgy, Molst, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.				26-27-21-20	8.8	50.1	40.1	9.8
10	Field Note: No Recovery				26-13-15-5	24.0	9.1	47.2	43.7
	A-4, SiSa, L/brn, Molst, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				3-3-1-3	24.1	11.4	65.6	23.0
	A-2-4, SiSa, L/brn, Molst, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				5-2-1-2	22.8	1.2	54.0	44.8
	A-4, SiSa, L/brn, Molst, Rec. = 1.2 ft				2-2-2-2	24.0	2.0	86.9	11.1
	A-2-4, Sa, L/brn, Molst, Rec. = 0.4 ft				4-2-2-1	24.0	2.2	73.3	24.5
	A-2-4, SiSa, L/brn, Molst, Rec. = 1.1 ft				4-2-2-3	23.4	0.8	84.7	14.5
	A-2-4, Sa, L/brn, Molst, Rec. = 1.6 ft				4-5-4-5	21.8	4.1	89.4	6.5
30	A-3, Sa, L/brn, Molst, Rec. = 0.3 ft				2-2-3-4	24.0	0.8	83.0	16.2
	A-2-4, Sa, gry, Molst, Rec. = 1.3 ft				3-3-4-5	20.8	4.0	89.1	6.9
	A-3, Sa, gry, Molst, Rec. = 0.7 ft				4-5-4-5	25.0		92.3	7.7
40	A-3, Sa, gry, Molst, Rec. = 0.6 ft				2-3-3-4	23.6	0.2	90.0	9.8
	A-3, Sa, gry, Molst, Rec. = 0.9 ft				1-3-3-4	21.5	0.5	73.8	25.7
50	A-2-4, SiSa, gry, Molst, Rec. = 1.3 ft				4-4-5-7	25.4	0.3	83.8	15.9
	Field Note: Switched to NWJ due to and open hole drilling				5-9-7-14	17.4	0.5	95.3	4.2
60	A-2-4, Sa, gry, Molst, Rec. = 0.2 ft				5-8-10-11	25.9		18.9	81.1
	A-3, Sa, gry, Molst, Rec. = 0.5 ft								
	A-4, Sl, gry, Molst, Rec. = 0.7 ft								

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		<b>BRUNSWICK BF 0271(23) VT-102 BR-6</b>		Page No.: <b>2 of 3</b>		Checked By: <b>END</b>			
Boring Crew: <b>GARROW, HOOK, NIETO</b>		Type: <b>WB</b>	Casing <b>SS</b>	Groundwater Observations					
Date Started: <b>8/21/14</b>	Date Finished: <b>8/29/14</b>	I.D.: <b>4 in</b>	<b>1.5 in</b>	Date	Depth (ft)	Notes			
VTSPG NAD83: <b>N 802008,42 ft E 1873627,34 ft</b>		Hammer Wt: <b>N.A.</b>	<b>140 lb.</b>	08/22/14	11.5	AM			
Station: <b>14+70</b>	Offset: <b>19.00</b>	Hammer Fall: <b>N.A.</b>	<b>30 in.</b>	08/26/14	5.4	Overnight.			
Ground Elevation: <b>873.0 ft</b>		Hammer/Rod Type: <b>Auto/AWJ</b>		08/29/14	4.1	Overnight.			
		Rig: <b>CME 55 TRACK</b>	<b>C = 1.46</b>						
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (Core %)	Drill Rate (ft/min)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	A-4, SiSa, gry, Molst, Rec. = 0.8 ft				2-3-5-10	26.6	0.2	51.9	47.9
	A-4, SaSl, gry, Molst, Rec. = 1.3 ft				5-9-11-14	22.9		47.6	52.4
80	A-4, SiSa, gry, Molst, Rec. = 0.7 ft				7-10-10-11	22.7	0.3	62.1	37.6
	A-2-4, SiSa, gry, Molst, Rec. = 1.0 ft				7-9-12-21	22.7	0.2	78.2	21.6
90	A-4, SiSa, gry, Molst, Rec. = 0.5 ft				10-12-18-20	24.5	0.2	63.8	36.0
	A-3, Sa, gry, Molst, Rec. = 0.6 ft				9-10-10-14	19.0	4.0	90.7	5.3
100	A-4, SaSl, gry, Molst, Rec. = 1.3 ft				13-18-23-30	22.7		44.3	55.7
	A-2-4, SiSa, gry, Molst, Rec. = 1.4 ft				10-18-21-25	22.4		64.8	35.2
110	A-4, Sl, gry, Molst, Rec. = 1.6 ft, Lab Note: Some very thin layers of clay were noticeable.				20-24-25-30	21.5		3.5	96.5
	A-4, Sl, gry, Molst, Rec. = 1.5 ft				10-15-21-24	24.5	0.2	5.1	94.9
120	A-4, SiSa, brn, Molst, Rec. = 0.6 ft				14-15-17-19	20.7	0.2	55.3	46.7
	A-3, Sa, L/brn, Molst, Rec. = 1.0 ft				14-15-17-19	17.6	4.2	87.8	8.0
130	Field Note: Advanced casing and cleaned out to 135.0 feet.				12-16-18-27	13.6	8.9	81.6	9.5
	A-1-b, Sa, brn, Molst, Rec. = 0.8 ft								

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Boring Crew: <b>GARROW, HOOK, NIETO</b>		Type: <b>WB</b>	Casing <b>SS</b>	Groundwater Observations					
Date Started: <b>8/21/14</b>	Date Finished: <b>8/29/14</b>	I.D.: <b>4 in</b>	<b>1.5 in</b>	Date	Depth (ft)	Notes			
VTSPG NAD83: <b>N 802008,42 ft E 1873627,34 ft</b>		Hammer Wt: <b>N.A.</b>	<b>140 lb.</b>	08/22/14	11.5	AM			
Station: <b>14+70</b>	Offset: <b>19.00</b>	Hammer Fall: <b>N.A.</b>	<b>30 in.</b>	08/26/14	5.4	Overnight.			
Ground Elevation: <b>873.0 ft</b>		Hammer/Rod Type: <b>Auto/AWJ</b>		08/29/14	4.1	Overnight.			
		Rig: <b>CME 55 TRACK</b>	<b>C = 1.46</b>						
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (Core %)	Drill Rate (ft/min)	Blow# (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	A-1-b, GrSa, brn-gry, MTW, Rec. = 0.9 ft				8-16-23-25	18.5	23.3	68.8	7.9
150	Field Note: Sleeved 3" casing into 4" casing. Cleaned out casing.				6-11-5-9	16			
	Visual Description: Broken Rock with sand, brn-gry, Molst, Rec. = 0.2 ft, insufficient sample for testing.								
160	A-1-b, GrSa, gry, Molst, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.								
170	Field Note: Cleaned out with roller cone								
	Field Note: No Recovery. Appears to be Gravely Sand								
180	Field Note: No Recovery. Appears to be Gravely Sand								
190	188.7 ft - 193.7 ft. White to dark-gray to pink, medium to coarse-grained Granite, with close to very closely spaced horizontal jointing. Very hard, Unweathered, Fair rock, BXMDC, RMR = 42	1	80	3	5	8	22	15	Top of Bedrock @ 188.7 ft
	193.7 ft - 198.7 ft. White to dark-gray to pink, medium to coarse-grained Granite, with the top 1.6 feet of run having close to very closely spaced horizontal jointing. Remainder of the run is unjointed. Very hard, Unweathered, Fair rock, BXMDC, RMR = 52	2	100	7	7	6	8	8	
200	Hole stopped @ 198.7 ft								
	Remarks: 1. Hole collapsed at 9.0 ft.								

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BORING LOG 2 BRUNSWICK BF 0271(23) G.P. VERMONT AGT GDT 10/27/14

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