



STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND
MATERIALS BUREAU
CENTRAL LABORATORY

BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: **B-101**
Page No.: 1 of 1
Pin No.: 13j276
Checked By: MLM

Boring Crew: Whitlock, Judkins, Coletti
Date Started: 5/19/16 Date Finished: 5/19/16
VTSPG NAD83: N 375622.30 ft E 1456508.91 ft
Station: 114+50 Offset: -11.00
Ground Elevation: 537.0 ft

Casing Type: WB Sampler: 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 SKID C = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
05/19/16	9.8	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.7		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft				1-2-3-4 (5)	9.0	37.4	46.6	16.0
0.7 - 0.9		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample.				5-5-9-7 (14)	7.8	60.4	29.6	10.0
0.9 - 0.7		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.7 ft, Lab Note: A lot of broken rock was within sample. Field Note:, Rollercone, Cleaned out casing				3-7-5-2 (12)	6.3	66.0	25.7	8.3
0.7 - 1.2		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.2 ft, Lab Note: A lot of broken rock was within sample. Field Note:, Rollercone, Cleaned out casing				3-5-5-16 (10)	11.3	61.4	26.7	11.9
1.2 - 1.0		A-1-b, SaGr, brn-gry, Moist, Rec. = 1.0 ft, Lab Note: Broken rock was within sample. Field Note:, Rollercone, Cleaned out casing				25-26-30-R@3.5" (56)	9.6	48.9	34.7	16.4
1.0 - 0.8		A-1-b, SaGr, gry-brn, Moist, Rec. = 0.8 ft, Lab Note: Broken rock was within sample. Field Note:, Rollercone, Cleaned out casing				17-50-R@0" (R)	10.5	56.3	27.6	16.1
11.5 - 16.5		11.5 ft - 16.5 ft, Light gray/green, PHYLLITE, with calcite and quartz veins. Slightly vuggy around calcite veins. Brown and light orange staining along joints and broken surfaces. Massive quartz vein at 16.2 to 16.5 feet. Quarts vein is very hard, very slightly weathered. Soft, Moderately weathered, Poor rock, NX, RMR=31	1 (55)	54 (15)	2	Top of Bedrock @ 11.5 ft				
16.5 - 19.5		16.5 ft - 19.5 ft, Gray to light green, PHYLLITE, with quartz veins and rare vugs. Minor brown staining along joints. Moderately hard, Slightly weathered, Fair rock, NX, RMR=41	2 (55)	48 (17)	6, 8, 17					
19.5 - 19.7		19.5 ft - 19.7 ft, Light green, Vuggy PHYLLITE, with brown coating on vugs. Very hard, Slightly weathered, Fair rock, NX, RMR=49	3 (N/A)	34 (24)	8					
19.7 - 21.5		19.7 ft - 21.5 ft, Pearly white, Massive vitreous QUARTZ, with plagioclase feldspar along joints. Orange and faint brown staining along joints. Very hard, Slightly weathered, Fair rock, RMR=49			11					
21.5 - 22.5		Hole stopped @ 21.5 ft								
22.5		Remarks: Hole collapsed at 11.6 feet.								

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

BORING LOG 2 POULTNEY BF0138(12), GPJ VERMONT AOT, GDT 6/24/16



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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: **B-102**
Page No.: 1 of 1
Pin No.: 13j276
Checked By: MLM

Boring Crew: Whitlock, Judkins, Coletti
Date Started: 5/20/16 Date Finished: 5/23/16
VTSPG NAD83: N 375593.15 ft E 1456534.86 ft
Station: 114+85 Offset: 6.00
Ground Elevation: 535.7 ft

Casing: WB Sampler: SS
Type: WB 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 SKID C_r = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
05/23/16	17.7	W.T. before drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 1.23 ft								
5		A-1-b, SiGrSa, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken rock was within sample				7-7-7-7 (14)	10.3	34.9	44.7	20.4
		A-1-a, Gr, brn-gry, Moist, Rec. = 0.9 ft, Lab Note: A lot of broken rock was within sample				5-2-3-12 (5)	1.8	77.9	17.5	4.6
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken rock and small metal pieces were within sample Field Note: Rollercone, Cleaned out casing				5-17-15-7 (32)	6.5	56.5	31.7	11.8
10		Field Note: No Recovery				3-2-1-1 (3)				
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken rock was within sample Field Note: Rollercone, Cleaned out casing				4-4-9-7 (13)	9.5	66.0	22.1	11.9
		A-1-b, SiSaGr, brn-gry, Moist, Rec. = 0.7 ft, Lab Note: Broken rock was within sample Field Note: Rollercone, Cleaned out casing				11-3-4-9 (7)	16.2	46.0	29.0	25.0
15		A-1-b, GrSa, brn-gry, Moist, Rec. = 0.8 ft Field Note: Rollercone, Cleaned out casing				9-9-5-6 (14)	10.9	44.2	44.3	11.5
		A-1-a, SaGr, brn-gry, Moist, Rec. = 0.8 ft Field Note: Rollercone, Cleaned out casing				6-4-6-8 (10)	10.0	51.3	37.4	11.3
		Field Note: No Recovery				2-1-1-1 (2)				
20		A-4, SiSa, brn, Moist, Rec. = 0.6 ft, Lab Note: A lot of sticks, twigs, and wood fibers were within sample				1-1-1-1 (2)	77.9	3.3	50.2	46.5
		Field Note: Rollercone, Cleaned out casing								
25		24.0 ft - 29.0 ft, Light gray/green, PHYLLITE, with few quartz veins. Moderately hard, Unweathered, Fair rock, NX, RMR=49 Low RQD could be due to mechanical breakage	1 (70)	100 (36)	10 10 10 25 15					Top of Bedrock @ 24.0 ft
30		29.0 ft - 34.0 ft, Light gray/green, PHYLLITE, with rare quartz veins. Moderately hard, Unweathered, Fair rock, NX, RMR=41 Low RQD could be due to mechanical breakage	2 (60-70)	100 (14)	9 6 7 7 10					
35		Hole stopped @ 34.0 ft								
		Remarks: Hole collapsed at 15.6 feet.								

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 may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 POULTNEY BF0138(12).GPJ VERMONT AOT.GDT 6/24/16



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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: **P-101A**

Page No.: 1 of 1

Pin No.: 13j276

Checked By: MLM

Boring Crew: Judkins, Garrow, Coletti

Date Started: 6/14/16 Date Finished: 6/14/16

VTSPG NAD83: N 375627.59 ft E 1456503.14 ft

Station: 114+43 Offset: -14.20

Ground Elevation: 537.1 ft

Type:	Casing	Sampler
I.D.:	WB	SS
Hammer Wt:	4 in	1.5 in
Hammer Fall:	N.A.	140 lb.
Hammer/Rod Type:	N.A.	30 in.
Rig:	Auto/AWJ	
	CME 45C SKID	C _r = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
06/14/16		No W.T. to depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5							
7.5		Field Note:, NXDC, Cleaned out casing, Cobbles					
8.5		Field Note:, NXDC, Cleaned out casing, Cobbles and Boulder					
10.0							
11.3		Hole stopped @ 11.3 ft					
12.5		Remarks: 1.) Washbore refusal at TLOB at 11.3 feet. 2.) Hole collapsed at 4.9 feet.					

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BORING LOG 2 POULTNEY BF0138(12).GPJ VERMONT AOT.GDT 6/24/16



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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: P-102
 Page No.: 1 of 1
 Pin No.: 13j276
 Checked By: MLM

Boring Crew: Judkins, Nieto, Garrow
 Date Started: 5/31/16 Date Finished: 5/31/16
 VTSPG NAD83: N 375606.81 ft E 1456503.17 ft
 Station: 114+50 Offset: 5.50
 Ground Elevation: 536.1 ft

Casing WB Sampler 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 SKID C_s = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
05/31/16	7.4	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 1.3		Asphalt Pavement, 0.0 ft - 1.3 ft					
2.5							
7.5		Field Note:, Cleaned out casing					
10.0		Field Note:, Cleaned out casing					
11.3		Field Note:, Cobble Rock					
12.5		Hole stopped @ 11.3 ft					
		Remarks: 1.) Washbore refusal at TLOB at 11.3 feet. 2.) Hole collapsed at 9.1 feet.					

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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: **P-104**

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Pin No.: 13j276

Checked By: MLM

Boring Crew: Nieto, Judkins, Coletti

Date Started: 6/01/16 Date Finished: 6/01/16

VTSPG NAD83: N 375613.07 ft E 1456484.85 ft

Station: 114+30 Offset: 5.00

Ground Elevation: 536.8 ft

Type:	Casing	Sampler
I.D.:	WB	SS
Hammer Wt:	4 in	1.5 in
Hammer Fall:	N.A.	140 lb.
Hammer/Rod Type:	N.A.	30 in.
Rig:	Auto/AWJ	
	CME 45C SKID	C _r = 1.42

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.8		Asphalt Pavement, 0.0 ft - 0.8 ft					
2.5							
5.0							
7.5							
7.9		Hole stopped @ 7.9 ft					
10.0		Remarks: 1.) Washbore refusal at TLOB at 7.9 feet. 2.) Hole collapsed at 5.8 feet.					
12.5							

Notes:

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BORING LOG 2 POULTNEY BF0138(12).GPJ VERMONT AOT.GDT 6/24/16



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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: **P-106**

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Pin No.: **13j276**

Checked By: **MLM**

Boring Crew: Judkins, Nieto, Coletti
 Date Started: 5/31/16 Date Finished: 6/01/16
 VTSPG NAD83: N 375605.99 ft E 1456535.78 ft
 Station: 114+80 Offset: -6.00
 Ground Elevation: 536.4 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 SKID C_s = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
06/01/16		No W.T. to depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.62 ft					
5							
10		Field Note:, Boulder					
15		Field Note:, Cobbles and Boulder					
20							
25		Hole stopped @ 23.1 ft					
		Remarks: 1.) Washbore refusal at TLOB at 23.1 feet. 2.) Hole collapsed at 9.2 feet.					

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BORING LOG 2 POULTNEY BF0138(12).GPJ VERMONT AOT.GDT 6/24/16



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BORING LOG

Poultney
BF0138(12)
SNR140 (TH-2) Br. #2

Boring No.: P-108
 Page No.: 1 of 1
 Pin No.: 13j276
 Checked By: MLM

Boring Crew: Nieto, Judkins, Coletti
 Date Started: 6/01/16 Date Finished: 6/01/16
 VTSPG NAD83: N 375598.41 ft E 1456554.61 ft
 Station: 115+00 Offset: -7.70
 Ground Elevation: 535.7 ft

Casing WB Sampler 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 SKID C_c = 1.42

Groundwater Observations

Date	Depth (ft)	Notes
06/01/16	15.7	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0 - 0.65		Asphalt Pavement, 0.0 ft - 0.65 ft					
5							
10							
15							
20							
25							
26.8		Hole stopped @ 26.8 ft					
30		Remarks: 1.) Washbore refusal at TLOB at 26.8 feet. 2.) Hole collapsed at 18.2 feet.					

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

BORING LOG 2_POULTNEY/BF0138(12).GPJ_VERMONT AOT.GDT_6/24/16



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BORING LOG

**Poultney
 BF0138(12)
 SNR140 (TH-2) Br. #2**

Boring No.: **P-112**
 Page No.: 1 of 1
 Pin No.: 13j276
 Checked By: MLM

Boring Crew: Garrow, Judkins, Coletti
 Date Started: 6/14/16 Date Finished: 6/14/16
 VTSPG NAD83: N 375582.53 ft E 1456556.13 ft
 Station: 115+09 Offset: 5.40
 Ground Elevation: 535.4 ft

Type: _____
 I.D.: 4 in
 Hammer Wt: N.A.
 Hammer Fall: N.A.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID
 Casing: WB
 Sampler: SS
1.5 in
140 lb.
30 in.
Auto/AWJ
C = 1.42

Groundwater Observations		
Date	Depth (ft)	Notes
06/14/16	8.8	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 1.2		Asphalt Pavement, 0.0 ft - 1.2 ft					
5							
10							
15							
20							
22.5		Field Note:, NXDC, Cleaned out casing, Cobbles and Boulder					
25							
30		Hole stopped @ 28.5 ft					
30		Remarks: 1.) Washbore refusal at TLOB at 28.5 feet. 2.) Hole collapsed at 18.8 feet.					

Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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BORING LOG 2 POULTNEY BF0138(12).GPJ VERMONT AOT.GDT 6/24/16