



BORING LOG  
**CAMBRIDGE**  
**STP 0235(21)**  
**BREWSTER RIVER CAMPGROUND**

Boring No.: **B-101**  
Page No.: **1 of 2**  
Pin No.: **14C132**  
Checked By: **MLM**

Boring Crew: **JUDKINS, HALL, DAIGNEAULT**  
Date Started: **8/01/13** Date Finished: **8/06/13**  
VTSPG NAD83: **N 769929.93 ft E 1559022.75 ft**  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: **882.6 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 55 TRACK C = 1.46**

Groundwater Observations  
Date Depth Notes  
**08/02/13 15.6 AM**  
**08/05/13 18.0 AM**  
**08/06/13 52.3 Before InclInometer**

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (RGD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, GrSa, brn, Molst, Rec. = 0.5 ft					WH-1-1-2 (2)	6.2	22.5	64.1	13.4
		A-2-4, GrSiSa, brn, Molst, Rec. = 0.6 ft					6-5-6-7 (11)	13.5	25.4	40.5	34.1
10		A-2-4, SiGrSa, brn, Molst, Rec. = 0.5 ft					4-3-3-4 (6)	13.3	32.4	41.0	26.6
		Field Note: No Recovery					1-2-WH-1 (2)				
20		Visual Description: Sandy Silt with some Broken Rock, brn, Moist, Rec. = 0.9 ft					4-1-11-36 (12)	10.2			
		A-2-4, SiSaGr, gry, Moist, Rec. = 0.4 ft					R@5.0"	7.7	37.2	34.4	28.4
30		A-2-4, SiGrSa, gry, Moist, Rec. = 0.3 ft, Broken Rock was within sample.					R@3.5"	8.5	33.9	38.5	27.6
		Visual Description: Broken Rock with Sandy Silt, gry, Moist, Rec. = 0.4 ft					R@5.0"	6.7			
40		A-4, SaGrSi, gry, Moist, Rec. = 0.4 ft					36-R@1.0"	10.2	31.6	27.8	40.6
		A-4, SaSi, gry, Moist, Rec. = 1.4 ft					19-30-40-R@2.5" (70)	14.2	14.6	40.5	44.9
50		Field Note: NXDC, Boulder									

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  
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Boring No.: **B-101**  
Page No.: **2 of 2**  
Pin No.: **14C132**  
Checked By: **MLM**

Boring Crew: **JUDKINS, HALL, DAIGNEAULT**  
Date Started: **8/01/13** Date Finished: **8/06/13**  
VTSPG NAD83: **N 769929.93 ft E 1559022.75 ft**  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: **882.6 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 55 TRACK C = 1.46**

Groundwater Observations  
Date Depth Notes  
**08/02/13 15.6 AM**  
**08/05/13 18.0 AM**  
**08/06/13 52.3 Before InclInometer**

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (RGD %)	Drill Rate minutes/ft	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SIGrSa, brn, Molst, Rec. = 0.9 ft, Broken Rock was within sample.					54-48-R@1.0" (R)	11.9	32.0	42.6	25.4
60		A-1-b, SaGr, brn, Molst, Rec. = 0.3 ft, Broken Rock was within sample.					R@3.5"	10.6	52.6	31.8	15.6
		A-2-4, SiSa, brn, Molst, Rec. = 0.9 ft					31-47-R@1.0" (R)	12.4	18.2	51.7	30.1
70		A-1-b, SiGrSa, brn, Molst, Rec. = 0.2 ft, Sample had some Broken Rock and little Weathered Rock.					R@3.5"	10.5	36.6	40.6	22.8
		A-2-4, GrSiSa, brn, Moist, Rec. = 0.4 ft					R@5.0"	12.5	23.5	45.0	31.5
80		Visual Description: Broken & Weathered Rock, brn, Moist, Rec. = 0.3 ft					R@3.5"	10.7			
		83.0 ft - 86.5 ft, Silvery-green, To grayish-green, albite-chlorite-muscovite-quartz Schist, Moderately hard, Moderately weathered, Poor rock, BXMD, RMR = 30			1 (25)	67 (0)	4 4 10				Top of Bedrock @ 83.0 ft
		86.5 ft - 91.6 ft, Silvery-green, To grayish-green, albite-chlorite-muscovite-quartz Schist, Moderately hard, Unweathered, Fair rock, BXMD, RMR = 46			2 (25)	96 (60)	2 4 8 8 6				
		Hole stopped @ 91.6 ft									
		Remarks: 1. Installed one 2.75 inch InclInometer. 2. InclInometer goes to 91.6 feet. 3. Top of InclInometer is 2.2 feet above ground surface.									
100											

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 CAMBRIDGE STP 0235(21) GPJ VERMONT AOT.GDT 9/25/14

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

BORING LOG

CAMBRIDGE  
 STP 0235(21)  
 BREWSTER RIVER CAMPGROUND

Boring No.: B-102  
 Page No.: 1 of 1  
 Pin No.: 14C132  
 Checked By: MLM

Boring Crew: JUDKINS, HALL  
 Date Started: 7/19/13 Date Finished: 7/29/13  
 VTSPG NAD83: N 769757.42 ft E 1559133.86 ft  
 Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
 Ground Elevation: 851.51 ft

Casing Sampler  
 Type: H.S.A. SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 55 TRACK C = 1.46

Groundwater Observations		
Date	Depth (ft)	Notes
07/26/13	12.8	While drilling.
07/29/13	23.5	After weekend.

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 %
10		A-1-b, SaGr, brn, Moist, Rec. = 1.4 ft				9-11-9-8 (20)	6.4	38.2	37.3	24.5
		A-1-b, SaGr, brn, Moist, Rec. = 0.4 ft, Broken Rock was within sample. Field Note:, Wet material at 7.0 feet. Moist material at 9.0 feet				8-1-1-WH (2)	3.3	41.9	39.5	18.6
		A-1-b, SaGr, brn, Moist, Rec. = 1.5 ft, Broken Rock was within sample.				16-25-26-R@5.0" (51)	5.1	46.7	35.5	17.8
20		A-4, SiSa, brn, Moist, Rec. = 1.8 ft				13-23-25-26 (48)	10.9	19.2	42.6	38.2
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.5 ft Field Note:, Wet Silt off Augers				19-30-33-R@3.5" (63)	9.1	29.4	41.2	29.4
		Visual Description:, Silt with Broken Rock, brn, Moist, Rec. = 0.1 ft Lab Note, Material was very wet at 28.0 feet				R@1.0"	5.2			
30		A-1-b, Sa, brn, Moist, Rec. = 1.5 ft				8-32-48-R@1.0" (80)	15.1	1.6	88.3	10.1
		Visual Description:, Broken Rock, white-brn, Moist, Rec. = 0.2 ft				R@2.5"	4.1			
		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft				R@6.0"	9.8	59.2	26.4	14.4
50		Visual Description:, Weathered Rock, Rec. = 0.3 ft				R@3.5"	14.4			
		47.5 ft - 52.5 ft, Silvery-green, To grayish-green, albite-chlorite-muscovite-quartz Schist, Moderately hard, Slightly weathered, Poor rock, BXMDC, RMR = 25	1 (25)	16 (0)	2	Top of Bedrock @ 47.5 ft				
		52.5 ft - 57.5 ft, Silvery-green, To grayish-green, albite-chlorite-muscovite-quartz Schist, Moderately hard, Slightly weathered, Poor rock, BXMDC, RMR = 25	2 (25)	16 (0)	2					
60		Hole stopped @ 57.5 ft								
		Remarks: 1. Hole collapsed at 34.0 feet with augers in ground. 2. Hole collapsed at 10.5 feet with augers removed.								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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BORING LOG 2 CAMBRIDGE STP 0235(21).GPJ VERMONT AOT.GDT 9/25/14



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 SUBSURFACE INFORMATION

BORING LOG

CAMBRIDGE  
 STP 0235(21)  
 BREWSTER RIVER CAMPGROUND

Boring No.: **B-103**  
 Page No.: 1 of 1  
 Pin No.: 14C132  
 Checked By: MLM

Boring Crew: JUDKINS, HALL, DAIGNEAULT  
 Date Started: 7/29/13 Date Finished: 7/31/13  
 VTSPG NAD83: N 769853.68 ft E 1559125.06 ft  
 Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
 Ground Elevation: 839.7 ft

Casing: WB Sampler: SS  
 I.D.: 3 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 = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
07/30/13	11.5	While drilling.
07/31/13	12.6	Casing in hole.
08/12/13	31.7	From top of well.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, GrSa, brn, Moist, Rec. = 0.3 ft					(WH)	11.7	38.1	49.5	12.4
		Visual Description: Broken Asphalt Pavement (RAP), brn, Moist, Rec. = 0.1 ft					(WH)	7.3			
		A-1-b, SaGr, brn, Moist, Rec. = 0.3 ft					1-1-2-2 (3)	13.2	44.6	37.4	18.0
		A-1-b, SiGrSa, brn, Wet, Rec. = 1.0 ft					1-2-2-1 (4)	13.9	36.4	38.5	25.1
10		A-2-4, SiGrSa with a few Wood pieces, brn, Wet, Rec. = 0.6 ft					1-3-4-10 (7)	22.4	37.3	39.4	23.3
		A-1-b, SiSaGr, brn, Moist, Rec. = 0.7 ft					15-17-17-14 (34)	11.8	41.0	35.8	23.2
15		Field Note: BXDC					6-7-9-15 (16)	5.4			
		Visual Description: Broken Rock with Sand, brn, Moist, Rec. = 0.2 ft									
20		A-2-4, SiGrSa, brn, Wet, Rec. = 0.6 ft					5-6-4-5 (10)	13.8	27.7	52.0	20.3
30		A-2-4, SiSaGr, brn, Moist, Rec. = 0.4 ft					R@5.0"	8.5	39.3	33.4	27.3
35		Field Note: BXDC, Cleanout									
40		36.3 ft - 41.3 ft, Silvery-green, To grayish-green, albite-chlorite-muscovite-quartz Schist, Moderately hard, Unweathered, Fair rock, BXMDC, Drilling break from 38.3-38.7 ft., RMR = 41		1 (25)	60 (32)	3	Top of Bedrock @ 36.3 ft				
		Hole stopped @ 41.3 ft									
45		Remarks: 1. Installed one 1.5 inch Monitoring Well. 2. Well goes to 30.0 feet with 10 feet of screen from 20.0 to 30.0 feet. 3. Top of Well is 2.4 feet above ground surface.									

Notes:  
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BORING LOG 2 CAMBRIDGE STP 0235(21).GPJ VERMONT AOT.GDT 9/25/14



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BORING LOG  
 CAMBRIDGE  
 STP 0235(21)  
 BREWSTER RIVER CAMPGROUND

Boring No.: **B-204**  
 Page No.: 1 of 1  
 Pin No.: 14C132  
 Checked By: MLM

Boring Crew: GARROW, HOOK, NIETO  
 Date Started: 8/07/14 Date Finished: 8/08/14  
 VTSPG NAD83: N 769922.35 ft E 1559183.25 ft  
 Station: Offset:  
 Ground Elevation: 804.7 ft

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 C = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/08/14	6.3	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Well Diagram	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft					1-1-1-2 (2)	24.1	12.8	53.9	33.3	
		A-2-4, GrSiSa, brn-Lt/gry, Moist, Rec. = 0.8 ft					9-3-2-2 (5)	17.7	29.0	41.3	29.7	
		Field Note: No Recovery. Appears to be Gravel					5-5-5-4 (10)					
		A-1-b, GrSa, Lt/brn, Moist, Rec. = 1.0 ft, NXDC, Cleaned out casing.					1-3-5-6 (8)	13.0	33.7	48.5	17.8	
		A-1-b, GrSa, gry, Moist, Rec. = 0.8 ft					7-6-5-3 (11)	13.1	33.7	49.9	16.4	
10		A-2-4, GrSiSa, Lt/brn, Moist, Rec. = 0.3 ft					6-5-5-4 (10)	11.3	22.4	43.4	34.2	
		A-4, GrSaSi, gry, Moist, Rec. = 0.5 ft					6-6-3-3 (9)	15.9	26.5	30.9	42.6	
		A-4, GrSaSi, gry, Moist, Rec. = 1.6 ft, Lab Note: Broken Rock was within sample.					9-15-24-38 (39)	9.0	24.7	36.3	39.0	
		A-4, SiSa, gry, Moist, Rec. = 1.4 ft					23-30-30-30-30-30 (60)	9.3	16.3	42.7	41.0	
20		A-1-b, SiGrSa, gry, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.					R@2.5" (R)	8.0	46.8	30.9	22.3	
		A-2-4, GrSiSa, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.					12-21-R@6.0" (R)	11.2	27.7	43.8	28.5	
		A-2-4, GrSiSa, gry-Lt/brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.					18-49-R@5.0" (R)	12.2	29.0	40.7	30.3	
		A-2-4, SiGrSa, brn, Moist, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.					45-49-R@1.0" (R)	12.9	28.8	43.9	27.3	
30		Visual Description: Severely Weathered Rock, brn, Moist, Rec. = 0.8 ft					38-R@1.0" (R)					
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.1 ft					31-R@3.5" (R)	14.3				
		36.5 ft - 41.5 ft, Silvery-green to grayish-green, Albite-chlorite-muscovite-quartz Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 76		1 (35)	100 (80)	3						
40		41.5 ft - 46.5 ft, Silvery-green to grayish-green, Albite-chlorite-muscovite-quartz Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 79		2 (35)	100 (92)	3						
		Hole stopped @ 46.5 ft										
50		Remarks: 1. Installed one 1.5 inch Monitoring Well. 2. Well goes to 33.5 feet with 5 feet of screen from 28.0 to 33.0 feet. 3. Top of Well is 1.5 feet above ground surface.										

Notes:  
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BORING LOG 2 CAMBRIDGE STP 0235(21).GPJ VERMONT AOT.GDT 9/25/14



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BORING LOG

CAMBRIDGE  
STP 0235(21)  
BREWSTER RIVER CAMPGROUND

Boring No.: **B-205**

Page No.: 1 of 1

Pin No.: 14C132

Checked By: MLM

Boring Crew: GARROW, NIETO, HOOK  
Date Started: 8/13/14 Date Finished: 8/14/14  
VTSPG NAD83: N 769873.57 ft E 1559270.31 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: 773.3 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 C<sub>r</sub> = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
08/14/14	8.3	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Groundwater Observations					
						Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
5		A-2-4, SiSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Root pieces were within sample.				WH-WH-1-1 (1)	39.5	4.8	69.7	25.5	
		A-1-b, GrSa, brn-gry, Moist, Rec. = 1.4 ft, Lab Note: Broken Rock was within sample.				1-4-8-10 (12)	14.6	38.8	51.4	9.8	
		A-1-b, SaGr, gry-brn, Moist, Rec. = 1.7 ft, Lab Note: Broken Rock was within sample.				16-22-18-13 (40)	5.1	59.4	32.7	7.9	
10		Field Note: No Recovery				R@3.5" (R)					
		Field Note: Cobbles & Boulders									
		Field Note: NXDC, Cleaned out casing.									
15		Visual Description: Mostly Broken Rock with gravelly sand, gry, Moist, Rec. = 0.5 ft				6-10-9-10 (19)	8.3				
		A-1-b, GrSa, gry, Moist, Rec. = 1.7 ft, Lab Note: Broken Rock was within sample.				9-14-25-R@2.5" (39)	11.4	43.1	45.8	11.1	
		A-1-b, SiSaGr, gry, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				27-44-R@3.5" (R)	11.2	40.4	38.5	21.1	
20		A-2-4, GrSiSa, Lt/brn-gry, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample.	1 (35)	100 (86)	3	R@5.0" (R)	12.5	20.1	54.0	25.9	
		A-1-b, SaGr, Lt/brn, Moist, Rec. = 0.1 ft, Lab Note: Broken Rock was within sample.				R@1.0" (R)	11.8	41.5	38.7	19.8	
		Top of Bedrock @ 18.2 ft									
25		18.2 ft - 23.2 ft, Silvery-green to grayish-green, Albite-chlorite-muscovite-quartz Schist, Moderately weathered from 19.0 to 19.2 feet. remainder of run unweathered. Moderately hard, Good rock, NXMDC, RMR = 76	2 (35)	100 (86)	3						
		23.2 ft - 28.2 ft, Silvery-green to grayish-green, Albite-chlorite-muscovite-quartz Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 76									
30	Hole stopped @ 28.2 ft										
35	Remarks: Hole collapsed at 10.2 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 CAMBRIDGE STP 0235(21).GPJ VERMONT AOT.GDT 9/26/14