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

BORING LOG

VT Route 14, Bridge 82 Over Kingsbury Branch
Calais, Vermont
BHF 037-2(11)

Boring No.: B-2
Page No.: 1 of 3
Pin No.: s12b146
Checked By: ASP

Boring Crew: Jay/Thiel To/JF
Date Started: 3/19/14 Date Finished: 4/15/14
VTSPG NAD83: N 687069.54 ft E 1662003.95 ft
Station: 33+80.70 Offset: 14.67RT
Ground Elevation: 902.0 ft

	Casing	Sampler
Type:	Flushwall	SPT
I.D.:	4 in	2 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		
Rig:	CME 75	CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
03/14/14	5.9	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, SlSa, Rec. = 0.7 ft, (FILL)	5-17-3-4 (20)	15.8	10.0	65.2	24.8
10		(pebbles), Rec. = 0.0 ft	15-12-8-15 (20)				
		Subrounded pebbles, stream deposits, Rec. = 0.0 ft	3-3-3-3 (6)				
20		A-2-4, Sa, Rec. = 0.5 ft	5-3-3-4 (6)	18.5	8.1	80.4	11.5
		Rec. = 0.7 ft, 25.0 ft - 27.0 ft	8-8-8-8 (12)				
30		A-2-4, SlSa, Rec. = 0.92 ft	8-8-8-5 (12)	18.1	9.5	68.8	21.7
		A-3, Sa, Rec. = 0.83 ft	8-8-8-8 (12)	18.1	3.0	87.7	9.3
40		A-1-B, GrSa, Rec. = 0.83 ft	18-23-20-18 (43)	13.3	27.1	63.6	9.3
		A-2-4, GrSa, Rec. = 0.5 ft	7-6-8-12 (14)	14.4	23.2	63.7	13.1
50		A-1-A, Gr, Rec. = 0.0 ft	5-13-17-24 (30)				

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. CE is an estimated value.
3. Water level readings have been made at times and under conditions stated.
4. Fluctuation of groundwater may occur due to other factors than those present at the time measurements were made.
5. Ground surface elevations tabulated on the boring logs were estimated based on the grading plan provided by VAST.

Terracon

2010 COPY J:\145\113.GPJ VERMONT.GDT 8/13/14

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

BORING LOG

VT Route 14, Bridge 82 Over Kingsbury Branch
Calais, Vermont
BHF 037-2(11)

Boring No.: B-2
Page No.: 2 of 3
Pin No.: s12b146
Checked By: ASP

Boring Crew: Jay/Thiel To/JF
Date Started: 3/19/14 Date Finished: 4/15/14
VTSPG NAD83: N 687069.54 ft E 1662003.95 ft
Station: 33+80.70 Offset: 14.67RT
Ground Elevation: 902.0 ft

	Casing	Sampler
Type:	Flushwall	SPT
I.D.:	4 in	2 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		
Rig:	CME 75	CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
03/14/14	5.9	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, Sa, Rec. = 1.33 ft	7-8-8-12 (16)	22.9	0.6	82.2	17.2
60		A-4, SaSl, Rec. = 1.5 ft	9-12-16-22 (28)	23.6	0.3	47.4	52.3
		A-2-4, SlGrSa, Rec. = 1.17 ft	10-19-18-25 (37)	16.4	28.0	49.6	22.4
70		A-1-B, SlSaGr, Rec. = 1.0 ft	13-16-15-23 (31)	11.1	47.4	31.7	20.9
		A-1-B, GrSa, Rec. = 0.67 ft	11-12-12-14 (24)	14.6	23.7	59.3	17.0
80		A-3, Sa, Rec. = 1.17 ft	8-13-12-16 (25)	20.9	2.8	88.1	9.1
		A-3, Sa, Rec. = 1.33 ft	8-11-16-19 (27)	21.0	2.9	87.7	9.4
90		A-1-A, SaGr, Rec. = 0.67 ft	17-14-13-16 (27)	9.5	59.9	26.6	13.5
		A-1-B, Sa, Rec. = 1.33 ft	11-15-14-17 (29)	17.2	3.2	82.4	14.4
100		A-1-B, Sa	12-15-15-15 (30)	16.4	3.2	84.2	12.6

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. CE is an estimated value.
3. Water level readings have been made at times and under conditions stated.
4. Fluctuation of groundwater may occur due to other factors than those present at the time measurements were made.
5. Ground surface elevations tabulated on the boring logs were estimated based on the grading plan provided by VAST.

Terracon

2010 COPY J:\145\113.GPJ VERMONT.GDT 8/13/14

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

BORING LOG

VT Route 14, Bridge 82 Over Kingsbury Branch
Calais, Vermont
BHF 037-2(11)

Boring No.: B-2
Page No.: 3 of 3
Pin No.: s12b146
Checked By: ASP

Boring Crew: Jay/Thiel To/JF
Date Started: 3/19/14 Date Finished: 4/15/14
VTSPG NAD83: N 687069.54 ft E 1662003.95 ft
Station: 33+80.70 Offset: 14.67RT
Ground Elevation: 902.0 ft

	Casing	Sampler
Type:	Flushwall	SPT
I.D.:	4 in	2 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:		
Rig:	CME 75	CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
03/14/14	5.9	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
110		Boulder (drill rig grinding) at 110 feet					
		TILL at 116 feet					
120		A-1-A, Gr, Rec. = 1.0 ft, (TILL)	30-32-32-35 (64)	8.9	65.8	18.9	15.3
130		A-1-B, SaGr, Rec. = 1.33 ft, (TILL)	52-48-48-27 (96)	12.6	60.5	26.3	13.2
140		(roller bit grinding), Rec. = 0.0 ft	50/1" (50+)				
		Slow roller bit through gravel/cobbles					
150		A-2-4, Sa, (TILL)	25-31-35-58 (66)	21.2	0.4	83.6	16.0
		Hole stopped @ 152.0 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. CE is an estimated value.
3. Water level readings have been made at times and under conditions stated.
4. Fluctuation of groundwater may occur due to other factors than those present at the time measurements were made.
5. Ground surface elevations tabulated on the boring logs were estimated based on the grading plan provided by VAST.

Terracon

2010 COPY J:\145\113.GPJ VERMONT.GDT 8/13/14