



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

BORING LOG

**Colchester
 STPG 5600(17)
 US 2**

Boring No.: B-101
 Page No.: 1 of 1
 Pin No.: 13d436
 Checked By: END

Boring Crew: Hook, Judkins, Garrow
 Date Started: 1/28/16 Date Finished: 1/28/16
 VTSPG NAD83: N 740327.02 ft E 1465162.81 ft
 Station: 105+60.39 Offset: -46.90
 Ground Elevation: 313.4 ft

Type: H.S.A.
 I.D.: 3.25 in
 Hammer Wt: N.A.
 Hammer Fall: N.A.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C TRACK
 Casing: SS
 Sampler: 1.5 in
 140 lb.
 30 in.
 CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		Visual Description: SiSa, brn, Moist, Rec. = 0.9 ft, Lab note: Slight odor of gasoline emitted from sample.	1-4-3-3 (7)				
		Visual Description: SiSa, brn, Moist, Rec. = 1.2 ft, Lab note: Strong odor of gasoline emitted from sample.	4-3-3-4 (6)				
		Visual Description: SaSi, brn, Moist, Rec. = 1.8 ft, Lab note: Very strong odor of gasoline emitted from sample.	4-6-8-8 (14)				
7.5		Hole stopped @ 6.0 ft					
7.5		Remarks: Strong odor of gasoline from borehole and samples. Discontinued drilling operations and called Engineer.					

Notes:
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 <<SUB>><<SUB>> 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 COLCHESTER STPG 5600(17).GPJ VERMONT AOT.GDT 6/21/17



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

BORING LOG

Colchester
STPG 5600(17)
US 2

Boring No.: **B-102**
Page No.: 1 of 1
Pin No.: 13d436
Checked By: **END**

Boring Crew: Hook, Judkins, Garrow
Date Started: 1/26/16 Date Finished: 1/26/16
VTSPG NAD83: N 740276.35 ft E 1465257.84 ft
Station: 105+41.87 Offset: 57.90
Ground Elevation: 312.5 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 45C TRACK C_r = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
01/26/16	22.1	W.T. after drilling

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-4, SaSi, brn, Moist, Rec. = 0.9 ft	1-3-3-4 (6)	21.1	1.3	26.5	72.2		
		A-4, SaSi, brn, Moist, Rec. = 1.2 ft	3-2-4-5 (6)	23.5	0.3	20.0	79.7		
		A-4, Si, brn-gry, Moist, Rec. = 1.6 ft, Lab Note: Thin layers of clay were within sample. Sample tested non-plastic.	5-7-6-7 (13)	22.5		3.9	96.1		
		A-4, Si, gry-brn, Moist, Rec. = 1.7 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.	3-5-8-10 (13)	20.7	0.2	9.1	90.7		
		A-4, Si, gry-brn, Moist, Rec. = 1.5 ft, Lab Note: A very small amount of clay was within sample. Sample tested non-plastic.	5-12-14-10 (26)	19.2		15.3	84.7		
10		A-4, SiSa, brn, MTW, Rec. = 1.4 ft	7-11-15-22 (26)	24.6		53.3	46.7		
15		A-4, Si, gry-brn, Moist, Rec. = 1.0 ft	4-5-7-7 (12)	21.7	0.1	8.6	91.3		
		A-7-6, Cl, gry, Moist, Rec. = 1.0 ft		45.4	1.1	9.7	89.2	59	35
		Visual Description: Cl, gry, Moist, Rec. = 2.0 ft, Pushed 3"x30" Shelby Tube.							
20		A-7-6, Cl, gry-brn, Moist, Rec. = 0.8 ft	4-9-10-10 (19)	36.0	5.4	8.8	85.8	42	23
		A-4, SaSi, gry, Moist, Rec. = 1.0 ft		10.8	10.6	24.9	64.5		
25		Hole stopped @ 23.8 ft							
		Remarks: Could not penetrate further than 23.8 feet with augers. Hole Collapsed at 8.4 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 COLCHESTER STPG 5600(17).GPJ VERMONT AOT.GDT 3/24/16



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

BORING LOG

Colchester
 STPG 5600(17)
 US 2

Boring No.: **B-104**

Page No.: 1 of 1

Pin No.: 13d436

Checked By: END

Boring Crew: Hook, Garrow, Judkins
 Date Started: 1/22/16 Date Finished: 1/22/16
 VTSPG NAD83: N 740229.35 ft E 1465106.36 ft
 Station: 104+48.47 Offset: -70.20
 Ground Elevation: 311.6 ft

Type: _____
 I.D.: _____
 Hammer Wt: _____
 Hammer Fall: _____
 Hammer/Rod Type: _____
 Rig: CME 45C TRACK

Casing: H.S.A.
 Sampler: SS
3.25 in
1.5 in
N.A.
140 lb.
N.A.
30 in.
Auto/AWJ
C_s = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
01/22/16		No W.T. observed

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-4, SaSi, brn, Moist, Rec. = 1.0 ft, Lab Note: Grass and grass roots were within sample.	3-4-3-3 (7)	20.8	5.8	38.2	56.0		
		A-4, SiSa, brn, Moist, Rec. = 1.6 ft, Lab Note: Grass and grass roots were within sample.	5-7-5-9 (12)	19.0	11.6	50.1	38.3		
		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	5-6-7-7 (13)	18.5	2.2	39.4	58.4		
		A-4, SiSa, brn, Wet, Rec. = 0.2 ft	10-7-8-8 (15)	38.0	0.5	58.9	40.6		
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	6-9-12-14 (21)	22.8	0.7	37.6	61.7		
10		A-4, SaSi, brn, Moist, Rec. = 1.8 ft	10-15-14-13 (29)	20.3	0.9	27.2	71.9		
15		A-7-6, Cl, gry, Moist, Rec. = 1.8 ft	2-1-2-1 (3)	48.9	0.7	2.8	96.5	57	34
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Material from Triaxial T-208 tube Sample "A"		42.4	6.9	6.4	86.7	54	31
		A-7-6, Cl, gry, Moist, Material from Triaxial T-208 tube Sample "B"		53.3	1.0	3.2	95.8	65	38
		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft, Material from Triaxial T-208 tube Sample "D"		46.6	1.1	3.2	95.7	65	38
25		Hole stopped @ 24.2 ft							
		Remarks: Could not penetrate further than 24.2 feet with augers. Hole Collapsed at 5.2 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_s 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 COLCHESTER STPG 5600(17).GPJ VERMONT AOT.GDT 3/24/16



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

BORING LOG

Colchester
 STPG 5600(17)
 US 2

Boring No.: **B-105**
 Page No.: 1 of 1
 Pin No.: 13d436
 Checked By: END

Boring Crew: Hook, Judkins, Garrow
 Date Started: 1/25/16 Date Finished: 1/25/16
 VTSPG NAD83: N 740156.95 ft E 1465225.09 ft
 Station: 104+18.29 Offset: 65.50
 Ground Elevation: 310.6 ft

Type: H.S.A. Sampler: 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 45C TRACK C_c = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
01/25/16	29.0	No Water to Depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-4, SaSi, brn, Moist, Rec. = 1.3 ft, Lab Note: Grass and grass roots were within sample.	5-3-4-4 (7)	30.2	1.5	21.4	77.1		
		A-4, Si, brn, Moist, Rec. = 1.8 ft, Lab Note: Rust colored layers were within sample.	5-5-7-8 (12)	21.6	0.2	3.4	96.4		
		A-4, Si, brn, Moist, Rec. = 2.0 ft	3-5-11-13 (16)	22.9	0.1	4.0	95.9		
		A-4, Si, brn, Moist, Rec. = 2.0 ft, Lab Note: Rust colored layers were within sample.	5-10-12-19 (22)	18.1	0.1	5.1	94.8		
		A-4, Si, brn, Moist, Rec. = 1.5 ft	10-14-16-16 (30)	16.3		4.5	95.5		
		A-4, Si, gry, Moist, Rec. = 0.5 ft	8-8-10-11 (18)	15.5		1.4	98.6		
10		A-4, Si, gry, Moist, Rec. = 1.8 ft, Lab Note: Sample contained very hard layers after drying, possibly clay. Sample tested non-plastic.	8-8-10-11 (18)	15.8		6.7	93.3		
15		A-4, Si, gry, Moist, Rec. = 1.6 ft	5-6-10-20 (16)	16.7		9.8	90.2		
20		A-4, Si, gry, Moist, Rec. = 1.8 ft	4-5-7-10 (12)	19.9		2.8	97.2		
25		A-7-6, Cl, gry, Moist, Rec. = 2.0 ft	1-1-2-3 (3)	48.8	1.4	3.0	95.6	54	29
		Visual Description: Cl, gry, Moist, Rec. = 2.0 ft, Pushed 3"x30" Shelby Tube.							
30		Hole stopped @ 29.0 ft							
		Remarks: Hole Collapsed at 5.8 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 COLCHESTER STPG 5600(17).GPJ VERMONT AOT.GDT 3/24/16