



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

BORING LOG

RUTLAND TOWN  
 NHG 019-3(60)  
 US-7, TH-36 MAST ARMS

Boring No.: B-101  
 Page No.: 1 of 1  
 Pin No.: 14T190  
 Checked By: END

Boring Crew: DAIGNEAULT, JUDKINS, NIETO  
 Date Started: 1/14/15 Date Finished: 1/21/15  
 VTSPG NAD83: N 395992.24 ft E 1516329.15 ft  
 Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
 Ground Elevation: 575.21 ft

Casing Sampler  
 Type: H.S.A. & 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>s</sub> = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
01/21/15	3.5	After drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SiSa, brn, Moist, Rec. = 1.3 ft, Lab Note: Grass & roots were within sample. Drilling was performed with Hollow Stem augers.	10-4-4-6 (8)	23.9	16.4	47.8	35.8
		Field Note:, No Recovery. Appears to be silty sand	7-3-5-6 (8)				
5		Field Note:, No Recovery. Appears to be silty sand	3-2-3-3 (5)				
		A-4, SiSa, Lt/brn, Moist, Rec. = 0.1 ft	2-3-2-5 (5)	15.1	17.2		
		A-1-b, GrSa, Lt/brn-gry, Moist, Rec. = 0.5 ft	4-6-5-6 (11)	12.7	33.8	48.8	17.4
10		A-2-4, SiSa, Lt/brn-gry, Moist, Rec. = 0.7 ft	5-6-6-7 (12)	19.8	4.6	63.3	32.1
15		A-1-b, GrSa, brn, Wet, Rec. = 1.6 ft, Could not penetrate further with Hollow Stem Auger.	5-15-7-7 (22)	17.5	33.8	56.5	9.7
		Field Note:, Switched over to Wash Bore drilling. NXDC					
20		Field Note:, No Recovery. Appears to be sand	5-3-1-2 (4)				
		Field Note:, NXDC					
25		A-4, Si, gry, Moist, Rec. = 0.5 ft, Lab Note: A very tiny amount of clay was noticeable.	3-2-1-2 (3)				
		Hole stopped @ 27.0 ft					
		Remarks: Hole collapsed at 13.3 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. C<sub>s</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 RUTLAND TOWN NHG 019-3(60).GPJ VERMONT AOT.GDT 2/11/15



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BORING LOG

RUTLAND TOWN  
NHG 019-3(60)  
US-7, TH-36 MAST ARMS

Boring No.: B-102  
Page No.: 1 of 1  
Pin No.: 14T190  
Checked By: END

Boring Crew: DAIGNEAULT, GARROW, HOOK  
Date Started: 1/07/15 Date Finished: 1/07/15  
VTSPG NAD83: N 396001.52 ft E 1516438.71 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: 574.84 ft

Casing H.S.A. 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 TRACK C<sub>c</sub> = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft, Lab Note: Grass & small roots were within sample.	6-3-4-4 (7)	42.7	2.4	63.5	34.1
		A-2-4, SiSa, brn, Moist, Rec. = 0.1 ft	4-4-3-4 (7)	13.6	8.2	65.4	26.4
		A-2-4, SiSa, brn, Moist, Rec. = 0.3 ft	3-2-2-4 (4)	10.9	16.0	60.1	23.9
		A-2-4, SiSa, brn, Moist, Rec. = 1.4 ft	2-2-3-4 (5)	16.3	3.6	64.1	32.3
		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.	6-8-7-7 (15)	12.6	8.4	65.9	25.7
		A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft	3-5-6-7 (11)	14.4	7.6	69.0	23.4
		A-2-4, Sa, brn, MTW, Rec. = 1.1 ft	1-4-4-4 (8)	24.1	0.7	84.8	14.5
15		A-4, SiSa, brn, Wet, Rec. = 0.9 ft	3-2-2-1 (4)	30.0		54.8	45.2
		A-4, Si, brn, Wet, Rec. = 1.1 ft, Lab Note: Small layers of clay were noticeable. Sample tested:(NP)	WH-2-2-1 (4)	35.7		5.5	94.5
		A-4, GrSaSi, brn, Wet, Rec. = 0.7 ft	3-5-2-2 (7)	17.0	23.1	23.7	53.2
		A-4, SaGrSi, brn, MTW, Rec. = 0.7 ft	2-4-8-10 (12)	11.6	32.9	29.1	38.0
		A-4, SaSi, brn, Moist, Rec. = 1.4 ft	4-8-10-14 (18)	15.4	9.4	42.6	48.0
25		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	WH-4-18-26 (22)	14.3	8.6	37.0	54.4
Hole stopped @ 26.0 ft							
Remarks: Hole collapsed at 7.5 ft.							

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.



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BORING LOG

RUTLAND TOWN  
NHG 019-3(60)  
US-7, TH-36 MAST ARMS

Boring No.: B-103  
Page No.: 1 of 1  
Pin No.: 14T190  
Checked By: END

Boring Crew: DAIGNEAULT, HOOK, NIETO  
Date Started: 1/14/15 Date Finished: 1/14/15  
VTSPG NAD83: N 395898.94 ft E 1516345.20 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: 576.71 ft

Type: \_\_\_\_\_ Casing H.S.A. 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 TRACK C = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
		A-2-4, GrSiSa, Lt/brn, Moist, Rec. = 1.6 ft, Lab Note: Grass & roots were within sample.	12-9-6-3 (15)	21.5	20.1	51.3	28.6	
		A-4, SiSa, Lt/brn, Moist, Rec. = 1.0 ft	3-3-3-5 (6)	16.6	15.7	46.2	38.1	
5		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft	2-3-2-4 (5)	15.0	14.3	64.1	21.6	
		A-2-4, SiSa, Lt/brn, Moist, Rec. = 1.3 ft	3-4-4-4 (8)	13.7	3.1	64.3	32.6	
		A-2-4, SiSa, Lt/brn, Moist, Rec. = 1.7 ft	4-5-6-8 (11)	12.3	0.5	69.4	30.1	
10		A-2-4, SiSa, Lt/brn, Moist, Rec. = 1.4 ft	8-7-6-6 (13)	15.5	7.6	60.6	31.8	
15		A-3, Sa, Lt/brn, Wet, Rec. = 1.2 ft	2-5-5-5 (10)	23.2	2.5	88.8	8.7	
20		A-4, Si, Lt/brn, Wet, Rec. = 1.7 ft, Lab Note: Small layers of clay were noticeable. Sample tested:(NP)	2-2-2-2 (4)	32.2		11.3	88.7	
25		A-4, Si, Lt/brn, Wet, Rec. = 1.7 ft, Lab Note: Small layers of clay were noticeable. Sample tested:(NP)	1-2-2-3 (4)	35.1		6.9	93.1	
		Hole stopped @ 27.0 ft						
		Remarks: Hole collapsed at 7.2 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. 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.

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BORING LOG

RUTLAND TOWN  
NHG 019-3(60)  
US-7, TH-36 MAST ARMS

Boring No.: B-104  
Page No.: 1 of 1  
Pin No.: 14T190  
Checked By: END

Boring Crew: DAIGNEAULT, HOOK, NIETO  
Date Started: 1/12/15 Date Finished: 1/12/15  
VTSPG NAD83: N 395935.27 ft E 1516447.37 ft  
Station: \_\_\_\_\_ Offset: \_\_\_\_\_  
Ground Elevation: 577.63 ft

Casing H.S.A. 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 TRACK C<sub>r</sub> = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiSa with grass & roots, brn, Moist, Rec. = 0.5 ft	16-20-15-8 (35)	27.0	19.2	52.6	28.2
		A-2-4, Sa, Lt/brn, Moist, Rec. = 0.5 ft					
10		A-2-4, Sa, Lt/brn, Moist, Rec. = 1.1 ft	4-4-2-2 (6)	8.1	8.1	75.7	16.2
		A-1-b, GrSa, Lt/brn, Moist, Rec. = 1.3 ft	1-2-2-4 (4)	9.8	20.2	72.2	7.6
		A-2-4, SiSa, Lt/brn, Moist, Rec. = 1.6 ft	4-4-5-6 (9)	16.2	4.5	69.2	26.3
		A-2-4, Sa, Lt/brn, Moist, Rec. = 1.9 ft	4-4-5-4 (9)	8.9	0.8	85.6	13.6
15		A-2-4, Sa, Lt/brn, Moist, Rec. = 1.1 ft	4-4-4-5 (8)	7.7	10.7	78.4	10.9
15		A-4, Si, Lt/brn, MTW, Rec. = 0.3 ft, Lab Note: A small layer of clay was noticeable. Sample tested (NP).	2-2-2-2 (4)	36.2	0.4	10.3	89.3
20		A-4, SaSi, Lt/brn, Moist, Rec. = 1.1 ft	4-4-7-10 (11)	14.3	15.2	32.7	52.1
25		A-4, SaGrSi, Lt/brn, Moist, Rec. = 0.8 ft	15-20-36-33 (56)	11.4	27.5	26.6	45.9
Hole stopped @ 27.0 ft							
Remarks: Hole collapsed at 9.9 ft.							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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