

VT

Trans

Working On The Line

SAFETY

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

BORING LOG

RICHMOND
STP 0284(17)
US-2

Boring No.: B-101

Page No.: 1 of 1

Pin No.: 97C186

Checked By: CEE

Boring Crew: PORTER, WHITLOCK, HOLT

Date Started: 2/15/12 Date Finished: 2/15/12

VTSPG NAD83: N 701850.10 ft E 1506561.00 ft

Station: 6+25 Offset: -34.00

Ground Elevation: 328.6 ft

Type: H.S.A. SS

I.D.: 3.5 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_e = 1.33

Groundwater Observations

Date

Depth (ft)

Notes

No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %		
5		A-1-a, SaGr, brn, Moist, Taken from auger flight	6.4	59.2	25.4	15.4			
		A-4, SaSi, brn, Moist, Rec. = 1.1 ft, Trace of Clay.	7-4-3-4 (7)	14.3	2.1	28.1	69.8		
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.	3-5-6-5 (11)	13.6	0.9	25.2	73.9		
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, Trace of Clay.	8-8-9-9 (17)	14.3	0.9	42.1	57.0		
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	3-5-4-4 (9)	13.4	0.2	32.5	67.3		
10		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.	4-7-8-12 (15)	14.4		29.5	70.5		
15		A-4, SaSi, brn, Moist, Rec. = 1.6 ft, Trace of Clay.	8-10-11-15 (21)	17.1		24.5	75.5		
20		Field Note:, Cobbles							
		Field Note:, No Recovery.. Stone in sampler., Rec. = 0.3 ft							
		Field Note:, Cobbles	8-R@1.0"						
		A-4, SaSi, brn, Moist, Sample taken from auger flights. Trace of Clay.	17.1	0.4	23.8	75.8			
25		Field Note:, Cobbles							
30		Hole stopped @ 25.6 ft In Cobbles or on Ledge.							
Notes:		Remarks: Lab Note: Samples with "Trace of Clay" had noticeable clay within the sample, but an insufficient amount for testing. The amounts of clay were very small with very thin layers within the sample. It was lean clay with low to medium Limits.							

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

2. N Values have not been corrected for hammer energy. C_e is the hammer energy correction factor.

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

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BORING LOG

RICHMOND
STP 0284(17)
US-2

Boring No.: B-102

Page No.: 1 of 1

Pin No.: 97C186

Checked By: CEE

Boring Crew: PORTER, WHITLOCK, HOLT

Date Started: 2/15/12 Date Finished: 2/15/12

VTSPG NAD83: N 701801.00 ft E 1506628.80 ft

Station: 6+86 Offset: 23.00

Ground Elevation: 326.3 ft

Type: H.S.A. SS

I.D.: 3.5 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_e = 1.33

Groundwater Observations

Date

Depth (ft)

Notes

No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
5		A-1-a, SaGr, brn, Moist, Taken from Auger Flights.		5.2	57.9	31.3	10.8	
		A-2-4, Sa, brn, Moist, Rec. = 1.9 ft	9-16-24-23 (40)	9.2	16.3	64.8	18.9	
		A-4, SiSa, brn, Moist, Rec. = 1.3 ft, Trace of Clay.	14-17-27-10 (31)	13.5	11.1	44.8	44.1	
		A-4, SaSi, brn, Moist, Rec. = 1.6 ft, Trace of Clay.	7-7-9-10 (16)	18.0	2.5	26.7	70.8	
		A-4, SaSi, brn, Moist, Rec. = 1.2 ft	6-2-3-7 (5)	13.1	4.2	33.8	62.0	
10		A-4, SaSi, brn, Moist, Rec. = 1.0 ft, Trace of Clay.	5-13-14-17 (27)	11.7	4.1	26.2	69.7	
15		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, Trace of Clay.	5-13-12-13 (25)	15.4	1.3	21.1	77.6	
20		Field Note:, Cobbles						
		A-4, SaSi, brn, Moist, Rec. = 1.4 ft, Trace of Clay.	3-7-10-11 (17)	15.1	0.8	31.7	67.5	
25		A-4, SaSi, brn, Moist, Rec. = 1.7 ft, Trace of Clay.	8-10-11-15 (21)	16.5	0.4	25.3	74.3	
30		Hole stopped @ 27.0 ft						
Notes:		Remarks: Lab Note: Samples with "Trace of Clay" had noticeable clay within the sample, but an insufficient amount for testing. The amounts of clay were very small with very thin layers within the sample. It was lean clay with low to medium Limits.						

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

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BORING LOG

RICHMOND
STP 0284(17)
US-2

Boring No.: B-103

Page No.: 1 of 1

Pin No.: 97C186

Checked By: CEE

Boring Crew: PORTER, WHITLOCK, HOLT

Date Started: 2/13/12 Date Finished: 2/13/12

VTSPG NAD83: N 701412.80 ft E 1507581.40 ft

Station: 17+44 Offset: -30.00

Ground Elevation: 304.0 ft

Type: H.S.A. SS

I.D.: 3.5 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_e = 1.33

Groundwater Observations

Date

Depth (ft)

Notes

None Taken

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
5		A-2-4, SiSa, brn, Moist, Taken from Auger Flights.		11.8	16.8	57.2	26.0	
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft	13-11-8-7 (19)	9.1	31.7	43.4	24.9	
		Rec. = 1.0 ft	7-6-5-7 (11)	25.0	7.1	17.8	75.1	
		A-4, Si, brn, Moist, Rec. = 0.7 ft	4-3-4-6 (7)	20.7	2.7	39.3	58.0	
		A-2-4, SiSa, brn, Moist, Rec. = 1.7 ft	4-5-5-6 (10)	16.2	0.9	70.8	28.3	
10		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft	4-7-8-8 (15)	11.9	30.9	58.6	10.5	
15		A-1-b, GrSa, brn, MTW, Rec. = 0.8 ft	11-6-13-8 (19)	16.5	43.8	45.9	10.3	
20		A-1-b, GrSa, gry, MTW, Rec. = 1.0 ft	6-6-6-6 (12)	19.7	28.5	61.2	10.3	
25		A-1-b, GrSa, gry, Moist, Rec. = 1.0 ft	7-6-8-7 (14)	14.7	33.2	47.5	19.3	
30		Hole stopped @ 27.0 ft						
Notes:		Remarks: Lab Note: Samples with "Trace of Clay" had noticeable clay within the sample, but an insufficient amount for testing. The amounts of clay were very small with very thin layers within the sample. It was lean clay with low to medium Limits.						

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