



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

BORING LOG

KILLINGTON-STOCKBRIDGE
 STP 022-1(25)
 VT-100

Boring No.: **B-101**

Page No.: 1 of 1

Pin No.: 12B234

Checked By: END

Boring Crew: DAIGNEAULT, GARROW
 Date Started: 8/04/14 Date Finished: 8/04/14
 VTSPG NAD83: N 445626.76 ft E 1555079.81 ft
 Station: A16+63.0 Offset: 17.03
 Ground Elevation: 1074.94 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 SKID C_s = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
08/04/14	6.8	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	WH-6-11-16 (17)	7.2	37.4	51.6	11.0
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	8-11-10-9 (21)	6.2	58.9	31.4	9.7
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	4-5-12-13 (17)	7.7	61.2	30.0	8.8
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	16-45-R@6.0" (R)	14.6	51.5	34.0	14.5
10		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	33-30-R@6.0" (R)	11.6	53.4	32.5	14.1
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	25-27-22-28 (49)	12.3	53.0	29.3	17.7
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	18-20-22-28 (42)	11.7	46.2	34.6	19.2
15		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.	28-32-30-R@2.25" (62)	11.7	51.5	31.8	16.7
		A-1-a, Gr, brn, Moist, Rec. = 0.2 ft, Lab Note: Broken Rock was within sample. Rock in the end of sampler.	33-40-R@3.5" (R)	9.5	71.5	19.3	9.2
20		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.	23-28-33-25 (61)	10.9	49.9	33.7	16.4
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	20-36-R@6.0" (R)	13.2	37.0	44.3	18.7
25		A-1-b, SiGrSa, brn, Moist, Rec. = 0.6 ft	25-25-25-25 (50)	16.5	35.0	40.8	24.2
30		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft	22-26-32-27 (58)	12.3	36.6	44.6	18.8
		Hole stopped @ 32.0 ft					
35		Remarks: Hole collapsed at 20.4 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.

BORING LOG 2 KILLINGTON-STOCKBRIDGE STP 022-1(25).GPJ VERMONT AOT.GDT 8/13/14



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BORING LOG

KILLINGTON-STOCKBRIDGE

STP 022-1(25)

VT-100

Boring No.: **B-102**

Page No.: 1 of 1

Pin No.: 12B234

Checked By: END

Boring Crew: DAIGNEAULT, GARROW
Date Started: 8/05/14 Date Finished: 8/05/14
VTSPG NAD83: N 445627.90 ft E 1555054.50 ft
Station: A16+76.75 Offset: -16.74
Ground Elevation: 1076.48 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 SKID C_r = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
08/05/14	8.5	While drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Asphalt Pavement was within sample.	11-9-6-7 (15)	4.9	64.9	26.8	8.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft	6-9-5-5 (14)	6.5	55.0	34.7	10.3
		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft	4-5-6-4 (11)	7.7	54.1	35.7	10.2
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, NXDC, Cleaned out casing.	9-3-8-18 (11)	7.4	57.9	35.2	6.9
10		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	20-23-18-11 (41)	13.1	58.7	30.0	11.3
		A-1-a, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	15-13-9-7 (22)	14.1	56.2	31.5	12.3
15		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft, NXDC, Cleaned out casing.	7-7-9-11 (16)	13.0	48.6	38.7	12.7
		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	24-21-24-25 (45)	11.6	41.9	40.7	17.4
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.	16-22-22-27 (44)	10.6	47.4	35.8	16.8
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.	22-24-23-22 (47)	12.8	44.0	36.7	19.3
20		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.	22-20-16-16 (36)	12.1	46.3	37.6	16.1
25		Field Note: NXDC, Cleaned out casing					
		Field Note: No Recovery					
Hole stopped @ 25.0 ft							
Remarks: 1. Lost water return at 11.0 ft. 2. Regained water at 15.0 ft. 3. Hole collapsed at 14.7 ft.							

R@0.0" (R)

Notes:
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BORING LOG 2 KILLINGTON-STOCKBRIDGE STP 022-1(25).GPJ VERMONT AOT.GDT 8/13/14



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BORING LOG

KILLINGTON-STOCKBRIDGE
STP 022-1(25)
VT-100

Boring No.: **B-104**
Page No.: 1 of 1
Pin No.: 12B234
Checked By: END

Boring Crew: DAIGNEAULT, GARROW
Date Started: 7/24/14 Date Finished: 7/29/14
VTSPG NAD83: N 460544.76 ft E 1556341.28 ft
Station: A168+75.2 Offset: 17.00
Ground Elevation: 850.76 ft

Casing Type: WB 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 SKID C_r = 1.33

Groundwater Observations		
Date	Depth (ft)	Notes
07/29/14	2.8	While drilling.

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 %
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft				2-2-3-2 (5)	10.1	26.2	61.0	12.8
		A-2-4, SiSa, brn, Moist, Rec. = 0.2 ft				2-2-4-2 (6)	16.4	15.9	57.7	26.4
5		A-2-4, SiSa, brn, MTW, Rec. = 0.2 ft				3-1-3-4 (4)	23.7	10.6	58.4	31.0
		A-2-4, Sa, brn, Wet, Rec. = 0.6 ft				5-9-14-19 (23)	26.4	10.3	73.7	16.0
10		A-1-a, SaGr, brn, Wet, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				26-21-22-18 (43)	10.7	65.3	26.0	8.7
		A-1-b, SaGr, brn, MTW, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample. NXDC, Cleaned out casing.				12-14-13-6 (27)	13.6	52.2	38.3	9.5
		Field Note: No Recovery, NXDC, Cleaned out casing.				7-5-4-5 (9)				
15		A-2-4, Sa, brn, MTW, Rec. = 1.0 ft				5-3-3-4 (6)	29.3	0.2	81.2	18.6
		A-2-4, Sa, brn, MTW, Rec. = 1.2 ft				3-4-4-4 (8)	29.0	3.4	80.0	16.6
20		A-4, SaSi, brn-gry, Moist, Rec. = 1.5 ft				4-4-5-6 (9)	30.7	7.6	35.3	57.1
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft				4-4-5-5 (9)	29.9	0.4	46.0	53.6
		Field Note: No Recovery				6-5-4-6 (9)				
25		A-4, GrSaSi, brn, Moist, Rec. = 1.8 ft, Lab Note: Broken Rock was within sample.				6-3-13-18 (16)	25.3	22.0	37.0	41.0
		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				13-11-13-R@1.0" (24)	13.0	45.2	36.1	18.7
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				R@6.0" (R)	13.0	45.5	39.7	14.8
30		Field Note: NXDC, Cleaned out casing, Appears to be Cobbles.								
		30.0 ft - 33.0 ft, Light gray to light green, Phyllitic Schist, with numerous closely spaced stained near vertical joints. Moderately soft, Moderately severe weathering, Poor to very poor rock, NXMDC, RMR = 21	1 (85)	78 (0)	3					
		33.0 ft - 35.0 ft, Dark gray, Phyllite, with quartz nodules. Soft, Moderately severe weathering, Poor to very poor rock, Numerous very closely spaced stained partings along foliation planes.			4					
35		Hole stopped @ 35.0 ft			4					
		30.0 ft - 33.0 ft, Light gray to light green, Phyllitic Schist, with numerous closely spaced stained near vertical joints. Moderately soft, Moderately severe weathering, Poor to very poor rock, NXMDC, RMR = 21			4					
		33.0 ft - 35.0 ft, Dark gray, Phyllite, with quartz nodules. Soft, Moderately severe weathering, Poor to very poor rock, Numerous very closely spaced stained partings along foliation planes.			4					
		Hole stopped @ 35.0 ft			4					

Remarks:
Hole collapsed at 21.6 ft.

Notes:
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BORING LOG

KILLINGTON-STOCKBRIDGE
 STP 022-1(25)
 VT-100

Boring No.: **B-105**

Page No.: 1 of 1

Pin No.: 12B234

Checked By: END

Boring Crew: DAIGNEAULT, GARROW

Date Started: 8/01/14 Date Finished: 8/01/14

VTSPG NAD83: N 460540.61 ft E 1556308.50 ft

Station: A168+63.7 Offset: -17.00

Ground Elevation: 852.39 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 SKID C = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
08/01/14	6.2	While drilling.

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 %
5		A-2-4, Sa, brn, Moist, Rec. = 0.5 ft, Lab Note: Roots were within sample.				2-9-5-5 (14)	7.4	14.9	68.9	16.2
		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				4-7-7-6 (14)	7.3	49.5	37.0	13.5
		A-1-b, SaGr, brn, Moist, Rec. = 1.7 ft, Lab Note: Broken Rock was within sample.				11-15-15-12 (30)	7.7	44.1	42.0	13.9
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.				18-15-4-4 (19)	10.7	68.7	23.2	8.1
		A-2-4, SiSa, brn, MTW, Rec. = 0.7 ft, Lab Note: Small Roots were within sample.				5-6-14-26 (20)	21.3	32.9	55.0	12.1
		A-1-b, GrSa, brn, MTW, Rec. = 1.3 ft, Lab Note: Broken Rock was within sample.				26-26-20-28 (46)	10.1	66.6	23.6	9.8
		A-1-a, SaGr, brn, MTW, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.				24-21-27-12 (48)	10.0	62.9	26.8	10.3
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Lab Note: Broken Rock was within sample.				5-2-2-3 (4)	24.4	10.6	64.1	25.3
		A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.				4-3-5-9 (8)	26.5	13.7	26.1	60.2
		A-1-a, SaGr, brn, MTW, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				10-10-15-10 (25)	14.6	54.9	31.0	14.1
20		A-1-b, SiGrSa, red, Moist, Rec. = 0.4 ft, Lab Note: Sample was very rusty-red in color.				30-29-22-23 (51)	21.5	28.4	47.2	24.4
		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft, Lab Note: Broken Rock was within sample.					12.0	50.8	32.2	17.0
25		24.5 ft - 29.5 ft, Dark gray, Phyllite, with quartz nodules. Soft, Moderately severe weathering, Poor to very poor rock, NXMDC, Numerous very closely spaced stained partings along foliation planes. RMR = 21	1 (70)	94 (0)	5 3 3 15 9		Top of Bedrock @ 24.5 ft			
30		Hole stopped @ 29.5 ft								
35		Remarks: Hole collapsed at 13.0 ft.								

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