



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

BORING LOG

WESTON
BF 013-2(13)
VT-100 BR-98

Boring No.: B-101

Page No.: 1 of 1

Pin No.: 13B076

Checked By: BLS

Boring Crew: JUDKINS, HOOK, STRINGER
Date Started: 6/24/14 Date Finished: 6/24/14
VTSPG NAD83: N 299839.78 ft E 1565087.06 ft
Station: 287+99.61 Offset: -11.30
Ground Elevation: 1431.7 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
06/24/14	5.5	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 %
		Asphalt Pavement, 0.0 ft - 0.62 ft								
		A-1-b, SaGr, Lt/brn, Moist, Rec. = 1.1 ft				25-13-10-10 (23)	4.4	47.8	40.4	11.8
5		A-1-a, SaGr, Lt/brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				39-28-10-10 (38)	4.3	57.2	31.8	11.0
		A-1-b, SaGr, brn, MTW, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.				11-9-4-3 (13)	9.7	51.1	34.5	14.4
		A-1-b, SaGr, brn, Wet, Rec. = 0.4 ft Field Note: Cleaned out with Roller cone				8-R@1.0" (R)	18.9	45.7	41.6	12.7
10		A-1-b, SaGr, brn, MTW, Rec. = 0.6 ft, Cleaned out with Roller cone. Lab Note: Broken Rock was within sample.				9-4-7-4 (11)	14.9	47.6	36.2	16.2
		A-1-a, SaGr, brn, MTW, Rec. = 0.8 ft, Cleaned out with Roller cone. Lab Note: Broken Rock was within sample.				5-5-15-16 (20)	13.1	61.5	27.0	11.5
		A-1-b, SiSaGr, gry, MTW, Rec. = 1.0 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				25-20-21-19 (41)	12.1	43.6	36.3	20.1
15		A-2-4, SiSa, brn, MTW, Rec. = 1.1 ft				15-8-10-16 (18)	24.1	9.2	64.2	26.6
		A-1-b, SaGr, brn, MTW, Rec. = 1.0 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				11-17-15-12 (32)	14.4	48.0	37.4	14.6
20		A-2-4, Sa, brn, MTW, Rec. = 1.0 ft				14-12-12-13 (24)	19.8	10.8	74.1	15.1
25		A-2-4, SiSa, brn, MTW, Rec. = 1.5 ft				11-13-16-20 (29)	20.2	0.8	77.9	21.3
		Field Note: NXDC, Cleaned out casing								
30		Geologist's Note: Boulder								
		32.0 ft - 37.0 ft, Gray, Biotite-quartz-plagioclase Gneiss, Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. RMR = 44	1 (30)	88 (0)	8 4 4 3 4					
35		37.0 ft - 42.0 ft, Gray, Biotite-quartz-plagioclase Gneiss, Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. Near vertical joint from 40.0 to 42.0 feet. RMR = 44	2 (30)	100 (14)	3 3 3 3					
40										
		Hole stopped @ 42.0 ft								
45		Remarks: Hole collapsed at 6.0 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. 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 WESTON BF 013-2(13).GPJ VERMONT AOT.GDT 8/6/14



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

BORING LOG

WESTON
BF 013-2(13)
VT-100 BR-98

Boring No.: **B-102**

Page No.: 1 of 1

Pin No.: 13B076

Checked By: BLS

Boring Crew: JUDKINS, HOOK, STRINGER
Date Started: 6/25/14 Date Finished: 6/25/14
VTSPG NAD83: N 299888.48 ft E 1565145.23 ft
Station: 288+70.53 Offset: 12.40
Ground Elevation: 1431.6 ft

Casing Type: WB
Sampler Type: 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
06/25/14	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 %
0.0 - 0.58		Asphalt Pavement, 0.0 ft - 0.58 ft								
5		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.				4-13-12-9 (25)	9.9	26.9	62.8	10.3
		A-1-a, SaGr, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock was within sample.				10-10-15-15 (25)	7.4	55.8	34.1	10.1
		A-1-a, SaGr, brn, Moist, Rec. = 0.2 ft, NXDC, Cleaned out casing. Lab Note: Broken Rock was within sample.				38-19-11-15 (30)	5.0	62.5	28.8	8.7
		Field Note: No Recovery, Stone in sampler. NXDC, Cleaned out casing.				10-3-2-2 (5)				
10		A-1-a, SaGr, brn, MTW, Rec. = 0.3 ft, NXDC, Cleaned out casing. Lab Note: Sample was mostly Broken Rock with sand.				3-6-4-5 (10)	9.7	64.5	28.2	7.3
		A-1-b, SiSaGr, brn, Moist, Rec. = 0.4 ft, NXDC, Cleaned out casing. Lab Note: Sample was mostly Broken Rock with silty sand.				13-11-23-26 (34)	10.1	52.3	27.4	20.3
		A-1-b, SiSaGr, brn, Moist, Rec. = 0.1 ft				R@2.5" (R)	9.3	48.0	30.9	21.1
		Field Note: NXDC, Cleaned out casing.								
15		A-2-4, SiGrSa, brn, Moist, Rec. = 0.3 ft, Lab Note: Broken Rock was within sample.				37-R@5.0" (R)	10.6	34.6	38.1	27.3
		Field Note: NXDC, Cleaned out casing.								
		A-1-b, SiSaGr, brn-gry, Moist, Rec. = 0.6 ft, Lab Note: Broken Rock was within sample.				49-R@5.0" (R)	11.5	43.2	35.9	20.9
		Field Note: NXDC, Cleaned out casing. Rec. = 0.1 ft				R@1.0"	7.2			
20		Visual Description: Broken Rock with sand, brn-gry, Moist	1 (40)	94 (48)	3					
		19.1 ft - 20.3 ft, White, Quartz, vein. Hard, Unweathered, Fair rock			3					
		20.3 ft - 24.1 ft, Gray, Biotite-quartz-plagioclase Gneiss, Hard, Unweathered, Fair rock, Closely spaced stained jointing. NXMDC, RMR = 49 for the whole Run.			3					
					2					
					3					
25		24.1 ft - 29.1 ft, Gray, Biotite-quartz-plagioclase Gneiss, Hard, Unweathered, Fair rock, NXMDC, Moderately close spaced jointing. RMR = 64	2 (40)	94 (72)	2					
					2					
					2					
					2					
30		Hole stopped @ 29.1 ft								
		Remarks: Hole collapsed at 10.6 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 WESTON BF 013-2(13).GPJ VERMONT AOT.GDT 8/6/14



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

BORING LOG

WESTON
 BF 013-2(13)
 VT-100 BR-98

Boring No.: **B-103**
 Page No.: 1 of 1
 Pin No.: 13B076
 Checked By: BLS

Boring Crew: JUDKINS, HOOK, STRINGER
 Date Started: 6/26/14 Date Finished: 6/26/14
 VTSPG NAD83: N 299838.57 ft E 1565112.75 ft
 Station: 288+08.67 Offset: 11.70
 Ground Elevation: 1431.8 ft

Casing Type: WB
 Sampler I.D.: 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
06/26/14	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 %
0.0 - 0.78		Asphalt Pavement, 0.0 ft - 0.78 ft								
5		A-1-a, SaGr, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				11-10-9-13 (19)	7.1	57.4	33.1	9.5
		Field Note:, Cleaned out with NXDC								
		Field Note:, No Recovery. Appears to be Gr Sa				14-6-4-3 (10)				
		Field Note:, Cleaned out with NXDC								
10		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.				20-16-22-32 (38)	11.0	40.5	41.1	18.4
		Field Note:, Cleaned out with NXDC								
15		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft				12-7-8-28 (15)	14.2	36.3	50.9	12.8
		Visual Description:, Severely Weathered Rock, brn-gry, Moist, Rec. = 0.2 ft					13.0			
		Field Note:, Cleaned out with NXDC								
20		Visual Description:, Mostly Broken Rock with sand, brn, MTW, Rec. = 0.4 ft				37-R@3.5" (R)	9.4			
		Field Note:, Cleaned out with NXDC								
25		Field Note:, No Recovery				R@0.0"				
		25.0 ft - 30.0 ft, Gray and white, Biotite-quartz-plagioclase Gneiss, with quartz rich zones. Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. RMR = 49	1 (40)	98 (48)	3					
					3					
					3					
					3					
30		30.0 ft - 35.0 ft, Gray and white, Biotite-quartz-plagioclase Gneiss, with quartz rich zones. Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. RMR = 54	2 (40)	100 (72)	2					
					2					
					2					
					2					
35		Hole stopped @ 35.0 ft								
		Remarks: Hole collapsed at 8.2 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_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 WESTON BF 013-2(13).GPJ VERMONT AOT.GDT 8/6/14



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

BORING LOG

WESTON
BF 013-2(13)
VT-100 BR-98

Boring No.: B-104

Page No.: 1 of 1

Pin No.: 13B076

Checked By: BLS

Boring Crew: JUDKINS, HOOK, STRINGER

Date Started: 6/25/14 Date Finished: 6/26/14

VTSPG NAD83: N 299891.64 ft E 1565121.97 ft

Station: 288+61.25 Offset: -11.90

Ground Elevation: 1431.7 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
06/26/14	9.6	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 %
		Asphalt Pavement, 0.0 ft - 0.85 ft								
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft				13-13-12-22 (25)	7.7	43.5	41.0	15.5
5		Field Note: Cleaned out with Roller cone								
		Visual Description: Sample was mostly Wood pieces with silt & sand, brn, MTW, Rec. = 0.2 ft				5-4-4-10 (8)	76.9 30.9	9.6	61.6	28.8
		A-2-4, SiSa, brn, MTW, Rec. = 0.6 ft								
10		Field Note: Cleaned out with NXDC, Appears to be Cobbles, Boulders, and sand.								
		Field Note: No Recovery, Possible Boulder.				R@0.0" (R)				
		Field Note: NXDC Boulders, Cobbles, and sand								
15		Field Note: No Recovery, Appears to be Cobbles and sand.								
		Field Note: Cleaned out with NXDC, Appears to be Cobbles and sand.				49-R@3.5" (R)				
20		Visual Description: Sample was mostly Broken Rock with silty sand, brn-gry, Moist, Rec. = 0.2 ft				36-R@1.0" (R)	7.6			
		Field Note: Cleaned out with NXDC								
25		Field Note: No Recovery				R@0.0"				
		25.0 ft - 30.0 ft, Gray and white, Biotite-quartz-plagioclase Gneiss, with quartz rich zones. Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. RMR = 44	1 (30)	98 (0)	3					
					3					
					3					
					3					
30		30.0 ft - 35.0 ft, Gray and white, Biotite-quartz-plagioclase Gneiss, with quartz rich zones. Hard, Unweathered, Fair rock, NXMDC, Closely spaced stained jointing. RMR = 44	2 (30)	100 (14)	2					
					2					
					2					
					2					
35		Hole stopped @ 35.0 ft								
		Remarks: Hole collapsed at 5.0 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. 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 WESTON BF 013-2(13).GPJ VERMONT AOT.GDT 8/6/14