



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

BORING LOG

BAKERSFIELD
 STP SCR(11)
 VT-108

Boring No.: B-109

Page No.: 1 of 1

Pin No.: 10B248

Checked By: MLM

Boring Crew: DAIGNEAULT, JUDKINS

Date Started: 3/27/14 Date Finished: 3/27/14

VTSPG NAD83: N 830978.06 ft E 1561907.52 ft

Station: 184+00 Offset: -15.00

Ground Elevation: 737.7 ft

Type: H.S.A. 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C =

Groundwater Observations

Date	Depth (ft)	Notes
03/27/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0.0 - 0.56		Asphalt Pavement, 0.0 ft - 0.56 ft					
		A-1-a, SaGr, brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.	200	7.5	52.5	36.4	11.1
2.5		A-2-4, Sa, brn, Moist, Rec. = 1.8 ft	32-57-48-35	14.4	5.3	77.2	17.5
5.0		A-3, Sa, brn, Moist, Rec. = 1.8 ft	8-12-9-8	4.2	0.3	97.8	1.9
7.5		A-3, Sa, brn, Moist, Rec. = 1.8 ft	6-9-9-6	6.4		94.5	5.5
8.0		Hole stopped @ 8.0 ft					
10.0		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 1.5 ft.					
12.5							
15.0							
17.5							

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 BAKERSFIELD STP SCR(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

**BAKERSFIELD
 STP SCR(11)
 VT-108**

Boring No.: B-110
 Page No.: 1 of 1
 Pin No.: 10B248
 Checked By: MLM

Boring Crew: DAIGNEAULT, JUDKINS
 Date Started: 3/27/14 Date Finished: 3/27/14
 VTSPG NAD83: N 831612.08 ft E 1562040.11 ft
 Station: 190+50 Offset: -12.00
 Ground Elevation: 740.8 ft

Casing H.S.A. Sampler 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C. =

Groundwater Observations		
Date	Depth (ft)	Notes
03/27/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.48 ft					
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft	200	8.8	42.5	45.5	12.0
2.5		A-1-b, Sa, brn, Moist, Rec. = 1.8 ft	60-56-38-32	8.4	18.6	72.2	9.2
5.0		A-2-4, SiSa, Lt/brn, Moist, Rec. = 1.6 ft	22-16-17-20	4.2	0.4	66.1	33.5
7.5		A-4, SiSa, Lt/brn, Moist, Rec. = 1.5 ft	11-11-12-16	6.7		51.7	48.3
		Hole stopped @ 8.0 ft					
10.0		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 2.5 ft.					
12.5							
15.0							
17.5							

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 BAKERSFIELD STP SCR(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

BAKERSFIELD
 STP SCRP(11)
 VT-108

Boring No.: B-111

Page No.: 1 of 1

Pin No.: 10B248

Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK, JUDKINS
 Date Started: 3/26/14 Date Finished: 3/26/14
 VTSPG NAD83: N 832000.07 ft E 1562029.35 ft
 Station: 131+45 Offset: 9.00
 Ground Elevation: 741.2 ft

Casing Sampler
 Type: H.S.A. 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C =

Groundwater Observations

Date	Depth (ft)	Notes
03/26/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.74 ft					
		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft	200	5.3	56.1	34.1	9.8
2.5		Field Note: No Recovery, Sampler stopped at 2.1 ft.	100				
5.0		A-3, Sa, brn, Moist, Rec. = 1.7 ft	19-36-26-25	4.0	5.8	91.0	3.2
7.5		A-3, Sa, brn, Moist, Rec. = 1.8 ft	9-10-9-13	6.7	14.3	80.3	5.4
		Hole stopped @ 8.0 ft					
10.0		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 3.2 ft.					
12.5							
15.0							
17.5							

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 BAKERSFIELD STP SCRP(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

**BAKERSFIELD
 STP SCR(11)
 VT-108**

Boring No.: **B-112**
 Page No.: 1 of 1
 Pin No.: 10B248
 Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK
 Date Started: 3/25/14 Date Finished: 3/25/14
 VTSPG NAD83: N 832522.08 ft E 1562235.48 ft
 Station: 200+22 Offset: 10.00
 Ground Elevation: 743.7 ft

Casing H.S.A. Sampler 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C =

Groundwater Observations		
Date	Depth (ft)	Notes
03/25/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.34 ft					
2.5		A-1-a, SaGr, brn, Moist, Rec. = 0.3 ft	200	4.6	55.5	35.6	8.9
5.0		A-1-b, Sa, brn, Moist, Rec. = 1.9 ft	28-31-27-26	4.2	15.8	80.4	3.8
7.5		A-1-b, GrSa, brn, Moist, Rec. = 1.8 ft	10-12-11-8	4.5	38.4	56.8	4.8
		A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft	4-7-6-7	5.2	20.3	72.2	7.5
10.0		Hole stopped @ 9.0 ft					
12.5		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 2.2 ft.					
15.0							
17.5							

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 BAKERSFIELD STP SCR(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

BAKERSFIELD
 STP SCRP(11)
 VT-108

Boring No.: B-113

Page No.: 1 of 1

Pin No.: 10B248

Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK
 Date Started: 3/25/14 Date Finished: 3/25/14
 VTSPG NAD83: N 833104.99 ft E 1562341.22 ft
 Station: 206+00 Offset: 11.30
 Ground Elevation: 738.8 ft

Type: H.S.A. Sampler 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C. =

Groundwater Observations

Date	Depth (ft)	Notes
03/25/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.58 ft					
		A-1-a, SaGr with Cobbles, brn, Moist, Rec. = 0.5 ft	200	5.5	65.4	25.7	8.9
2.5		A-1-b, Sa, brn, Moist, Rec. = 2.0 ft	77-82-52-53	9.3	17.2	64.7	18.1
5.0		A-2-4, SiSa, brn, Moist, Rec. = 1.9 ft	31-40-25-25	11.5	1.8	73.3	24.9
7.5		A-4, SiSa, brn, Moist, Rec. = 1.8 ft	8-11-11-10	12.5	1.8	62.1	36.1

Hole stopped @ 8.0 ft

Remarks:
 1. Drillers used a 3" split spoon sampler.
 2. Hole collapsed at 2.2 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.

BORING LOG 2 BAKERSFIELD STP SCRP(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

BAKERSFIELD
 STP SCR(11)
 VT-108

Boring No.: B-114
 Page No.: 1 of 1
 Pin No.: 10B248
 Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK
 Date Started: 4/09/14 Date Finished: 4/09/14
 VTSPG NAD83: N 833410.52 ft E 1562405.52 ft
 Station: 209+47 Offset: 23.00
 Ground Elevation: 736.4 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 55 TRACK C_r = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
04/09/14	10.6	While drilling.
04/09/14	14.2	Casing removed.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-b, GrSa with grass, roots, & sticks, brn, MTW, Rec. = 0.8 ft	1-WH-WH-1 (WH)	20.1	38.0	48.6	13.4
		A-4, GrSiSa, brn, Moist, Rec. = 0.5 ft	1-WH-1-1 (1)	8.9	25.8	38.3	35.9
		A-1-b, GrSa, brn, Moist, Rec. = 1.0 ft	1-1-2-2 (3)	7.7	42.1	52.2	5.7
		A-1-b, Sa, brn, MTW, Rec. = 1.1 ft	3-3-3-2 (6)	31.3	9.9	84.0	6.1
10		A-3, Sa, brn, Moist, Rec. = 1.2 ft	4-5-5-6 (10)	7.4	3.3	91.5	5.2
		A-3, Sa, brn, Moist, Rec. = 1.4 ft	6-6-7-8 (13)	7.2	14.2	75.7	10.1
15		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft, Lab Note: Broken Rock was within sample.	8-7-8-8 (15)	14.2	7.2	67.2	25.6
20		A-2-4, Sa, brn, Moist, Rec. = 0.8 ft	6-5-5-4 (10)	16.2	13.2	76.2	10.6
25		A-3, Sa, brn, Moist, Rec. = 0.2 ft, Lab Note: Broken Rock was within sample.	6-6-6-9 (12)	14.8	12.7	77.2	10.1
Hole stopped @ 27.0 ft							
30		Remarks: 1. Hole collapsed at 20.7 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 BAKERSFIELD STP SCR(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

BAKERSFIELD
STP SCR(11)
VT-108

Boring No.: **B-115**

Page No.: 1 of 1

Pin No.: 10B248

Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK
 Date Started: 3/25/14 Date Finished: 3/25/14
 VTSPG NAD83: N 833650.16 ft E 1562410.32 ft
 Station: 211+50 Offset: -14.00
 Ground Elevation: 723.7 ft

Casing H.S.A. Sampler 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C. =

Groundwater Observations

Date	Depth (ft)	Notes
03/25/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.59 ft					
		A-1-b, SaGr with Cobbles, brn, Moist, Rec. = 0.53 ft, Lab Note: Some Broken Rock was within sample.	200	7.0	47.6	41.9	10.5
2.5		A-1-a, SaGr with Cobbles, brn-gry, Moist, Rec. = 0.7 ft, Lab Note: Some Broken Rock was within sample.	102	7.2	51.3	35.8	12.9
5.0		A-2-4, GrSa with Cobbles, brn, Moist, Rec. = 1.9 ft	28-39-13-14	18.0	24.4	58.4	17.2
7.5		A-4, GrSaSi with Cobbles, brn, Moist, Rec. = 1.8 ft	5-15-17-17	10.2	23.9	29.8	46.3
		Hole stopped @ 8.0 ft					
10.0		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 2.9 ft.					
12.5							
15.0							
17.5							

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 BAKERSFIELD STP SCR(11).GPJ VERMONT AOT.GDT 4/28/14



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

BORING LOG

BAKERSFIELD
 STP SCRP(11)
 VT-108

Boring No.: B-116

Page No.: 1 of 1

Pin No.: 10B248

Checked By: MLM

Boring Crew: DAIGNEAULT, HOOK, JUDKINS

Date Started: 3/26/14 Date Finished: 3/26/14

VTSPG NAD83: N 831954.84 ft E 1562216.29 ft

Station: 194+20 Offset: 93.00

Ground Elevation: 743.5 ft

Type: H.S.A. Sampler 3.0" S.S.
 I.D.: 3.5 in 3 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID C. =

Groundwater Observations

Date	Depth (ft)	Notes
03/26/14		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.48 ft					
		A-1-a, SaGr, brn, Moist, Rec. = 0.3 ft	200	4.6	50.5	40.4	9.1
2.5		A-3, Sa, brn, Moist, Rec. = 1.9 ft	47-66-39-49	6.5	3.2	87.0	9.8
5.0		A-3, Sa, brn, Moist, Rec. = 1.8 ft	10-16-12-9	4.9	2.6	89.3	8.1
7.5		A-1-b, GrSa, brn, Moist, Rec. = 1.7 ft	6-6-7-9	4.6	20.4	76.3	3.3
		Hole stopped @ 8.0 ft					
10.0		Remarks: 1. Drillers used a 3" split spoon sampler. 2. Hole collapsed at 2.9 ft.					
12.5							
15.0							
17.5							

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 BAKERSFIELD STP SCRP(11).GPJ VERMONT AOT.GDT 4/28/14