VTrans Working to Get You There — Vermont Agency of Transportation

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

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/26/12 Date Finished: 1/27/12
VTSPG NAD83: N 326718.81 ft E 1588076.53 ft
Station: 102+33.54 Offset: 30.7 LT
Ground Elevation: 994.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/26/12	7.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft – 0.3 ft					
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.5 ft	50-14-7-5 (21)	14.9	26.6	49.7	23.7
		A-2-4, Sa, brn, Moist, Rec. = 1.3 ft	4-2-2-2 (4)	5.3	0.9	87.7	11.4
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft	8-5-4-6 (9)	12.6	53.8	35.7	10.5
		A-1-a, SaGr, brn, Wet, Rec. = 0.3 ft	7-4-5-4 (9)	10.2	64.1	30.1	5.8
10		A-2-4, GrSa, brn, Wet, Rec. = 0.5 ft	11-5-4-4 (9)	24.1	27.7	54.4	17.9
		A-1-a, Gr, brn, Wet, Rec. = 0.5 ft	15-16-13-10 (29)	14.7	73.5	17.1	9.4
		A-1-a, Gr, brn, Wet, Rec. = 0.8 ft	15-16-25-44 (41)	11.7	75.5	16.0	8.5
		A-3, GrSa, brn, Wet, Rec. = 1.5 ft	40-13-12-15 (25)	19.3	25.2	64.7	10.1
20		A-1-b, SaGr, tan, Wet, Rec. = 0.8 ft	24-33-31-25 (64)	11.9	55.8	28.1	16.1
		A-1-b, SaGr, tan, Wet, Rec. = 1.1 ft	8-29-26-36 (55)	11.5	49.2	36.1	14.7
30		A-2-4, SiSa, brn, Wet, Rec. = 1.2 ft	10-15-16-15 (31)	23.8		68.8	31.2
		Cobbles, 33.0 ft – 35.0 ft					
		Cobbles, 36.0 ft – 37.0 ft					
40		A-4, SaSi, gry, Wet, Rec. = 0.7 ft	75-50/2 (100+)	9.8	19.7	33.1	47.2
		Cobbles, 41.0 ft – 42.0 ft					
		A-2-4, SaGrSi, gry, Wet, Rec. = 0.4 ft	100/5 (100+)	8.4	33.4	32.8	33.8
		Cobbles, 45.0 ft – 47.0 ft					
50		A-4, GrSaSi, gry, Wet, Rec. = 0.4 ft	100/5 (100+)	9.1	25.7	36.6	37.7
		Hole stopped @ 49.5 ft					

Notes:
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STATE OF VERMONT
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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-102
Page No.: 1 of 2
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/17/12 Date Finished: 1/19/12
VTSPG NAD83: N 326686.47 ft E 1588110.59 ft
Station: 102+48.28 Offset: 13.9 RT
Ground Elevation: 994.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/18/12	7.5	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft – 0.5 ft							
		A-1-b, GrSa, gry, Moist, Rec. = 0.3 ft			25/4	5.2	39.0	44.5	16.5
		A-1-b, SaGr, tan, Moist, Rec. = 0.9 ft			5-12-8-8 (20)	4.6	45.2	40.8	14.0
		A-1-b, GrSa trace asphalt at 6 ft, gry, Rec. = 0.8 ft			9-6-3-3 (9)	3.4	41.9	45.3	12.8
		A-1-b, GrSa, tan, Moist							
		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft			5-7-13-9 (20)	5.3	53.1	37.5	9.4
10		A-2-4, Sa, tan, Moist, Rec. = 1.1 ft			2-3-4-7 (7)	10.8	6.9	79.2	13.9
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft			6-9-19-25/1 (28)	4.2	50.5	40.4	9.1
		Cobbles and boulders, 14.0 ft – 18.0 ft							
		A-4, SiSa, brn, MTW, Rec. = 1.5 ft			14-17-19-16 (36)	28.8		62.1	37.9
20		A-2-4, SiSa, brn, MTW			16-17-14-18 (31)	25.6		73.2	26.8
		A-2-4, SiSa, brn, Moist			13-18-21-21 (39)	25.4		75.2	24.8
		A-2-4, Sa, tan, Wet, Rec. = 1.4 ft			8-17-19-16 (36)	24.3	1.8	83.8	14.4
		Cobbles, 27.5 ft – 28.5 ft							
30		A-1-b, SiSaGr, gry, Wet, Rec. = 1.1 ft			35-38-17 (55)	12.8	39.3	38.1	22.6
		Cobbles, 32.0 ft – 34.0 ft							
		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft			21-19-30-32 (49)	10.9	53.8	33.1	13.1
		Cobble, 36.0 ft – 36.5 ft							
40		A-4, SaSi, brn, Wet, Rec. = 1.2 ft			19-25-50/4 (75+)	24.1	13.7	34.1	52.2
50		42.0 ft – 52.0 ft, NXDC, Cored glacial till from 42 to 52 feet. Visual classification: Silty sand with gravel.							

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

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-102
Page No.: 2 of 2
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/17/12 Date Finished: 1/19/12
VTSPG NAD83: N 326686.47 ft E 1588110.59 ft
Station: 102+48.28 Offset: 13.9 RT
Ground Elevation: 994.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/18/12	7.5	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SaGrSi, gry, Wet, Rec. = 1.2 ft			26-51-46-50/3 (97)	9.3	32.5	29.9	37.6
60		Visual Class:, broken rock with silt and sand, gry, Wet, Rec. = 0.3 ft			50/4 (50+)	26.3			
		Possible cobbles, 61.0 ft – 64.0 ft							
70		64.0 ft – 74.0 ft, Gry, Micaceous Schist, Hard to very hard, Fresh, Fair rock, NXDC, Joints close to moderately close spacing	1 (25-45)	95 (74)	Top of Bedrock @ 64.0 ft				
		Hole stopped @ 74.0 ft							
80									
90									
100									

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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-103
Page No.: 1 of 1
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/26/12 Date Finished: 1/26/12
VTSPG NAD83: N 326659.70 ft E 1588164.46 ft
Station: 102+82.42 Offset: 63.0 RT
Ground Elevation: 992.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/26/12	10.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Visual Class:, Sandy Gravel, brn, Moist, Rec. = 0.3 ft	21-5-5-5 (10)	13.8			
		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft	20-10-15-8 (25)	7.7	51.7	37.0	11.3
		A-1-b, GrSa, brn, Moist, Rec. = 0.7 ft	16-10-6-9 (16)	16.5	35.6	48.9	15.5
		A-1-b, GrSa, brn, Moist, Rec. = 0.4 ft	3-7-6-10 (13)	12.3	38.1	48.0	13.9
10		A-1-a, SaGr, brn, Wet, Rec. = 0.8 ft	40-67-24-38 (91)	8.7	68.0	23.0	9.0
		A-1-a, SaGr, brn, Wet, Rec. = 1.0 ft	49-50-67-50/4 (117)	9.3	57.5	29.1	13.4
		Cobble, 14.0 ft - 14.5 ft					
		A-2-4, GrSiSa, brn, Wet, Rec. = 0.9 ft	16-15-9-13 (24)	17.9	25.1	44.2	30.7
		A-2-4, Sa, brn, Wet, Rec. = 1.7 ft	21-14-20-19 (34)	23.5	7.1	76.6	16.3
20		A-2-4, Sa, brn, Wet, Rec. = 1.5 ft	15-18-21-17 (39)	20.3	15.3	68.1	16.6
		A-2-4, SiSa, brn, Wet, Rec. = 1.8 ft	16-19-22-16 (41)	27.7		78.5	21.5
30		A-2-4, Sa, brn, Wet, Rec. = 1.6 ft	13-20-25-13 (45)	25.2		82.7	17.3
		A-2-4, SiSa, brn, Wet, Rec. = 1.4 ft	19-21-24-27 (45)	21.9	9.3	66.4	24.3
		Cobble, 37.0 ft - 38.0 ft					
40		A-1-b, SaGr, brn, Wet, Rec. = 1.4 ft	29-25-29-26 (54)	12.4	47.7	37.0	15.3
		A-4, GrSiSa, gry, Wet, Rec. = 1.7 ft	25-33-29-31 (62)	12.8	23.3	40.4	36.3
50		A-4, GrSaSi, gry, Wet, Rec. = 0.9 ft	27-73-50/2 (100+)	11.2	23.1	36.6	40.3
		Hole stopped @ 50.2 ft					

Notes:
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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-104
Page No.: 1 of 1
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/30/12 Date Finished: 1/30/12
VTSPG NAD83: N 326788.52 ft E 1588166.51 ft
Station: 103+40.22 Offset: 51.3 LT
Ground Elevation: 998.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/30/12	7.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Ashpalt, 0.0 ft – 0.7 ft		9.4	48.9	35.2	15.9
		A-1-b, SaGr, brn, Moist, Rec. = 1.8 ft	39-58-39-23 (97)	7.4	38.8	45.1	16.1
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	12-10-4-7 (14)				
		Visual Class:, sandy gravel, red-brn, Moist, Rec. = 0.3 ft	20-50/0 (50+)				
		Cobble, 6.0 ft – 7.0 ft					
		A-2-4, SiGrSa, brn, Wet, Rec. = 0.9 ft	8-10-7-8 (17)	21.1	31.7	47.2	21.1
10		Visual Class:, stone with silty sand, brn, Wet, Rec. = 0.4 ft	10-6-10-8 (16)	14.7			
		Gravel lodged in tip of sampler, Rec. = 0.1 ft, 12.0 ft – 14.0 ft	6-7-5-4 (12)				
		Visual Class:, silty sandy gravel, yel-brn, Wet, Rec. = 0.3 ft	10-6-7-18 (13)				
		A-2-4, SaSiGr, gry-brn, Wet, Rec. = 1.0 ft	15-15-10-13 (25)	19.7	42.6	22.7	34.7
20		A-4, SiSa, brn, Wet, Rec. = 1.7 ft	19-15-18-18 (33)	26.5	3.3	51.6	45.1
		A-4, SiSa, brn, Wet, Rec. = 1.9 ft	18-17-20-15 (37)	24.2	6.0	48.2	45.8
		A-2-4, SiSa, brn, Wet, Rec. = 1.5 ft	15-19-20-25 (39)	25.7	6.8	62.6	30.6
30		A-2-4, SiSa, brn-gry, Wet, Rec. = 1.4 ft	18-19-20-22 (39)	21.4	7.1	66.5	26.4
		A-2-4, SiSa, red-brn, Wet, Rec. = 1.3 ft	21-18-23-20 (41)	24.5	4.9	70.5	24.6
40		A-4, SaSi, gry, Wet, Rec. = 1.8 ft	36-36-40-36 (76)	15.8	15.1	37.9	47.0
		Cobble, 42.0 ft – 43.0 ft					
		A-2-4, GrSiSa, gry, Wet, Rec. = 1.3 ft	49-38-42-61 (80)	12.8	26.0	45.4	28.6
50		Rec. = 0.0 ft, 49.0 ft – 49.0 ft Hole stopped @ 49.0 ft	50/0 (50+)				

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STATE OF VERMONT
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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-105
Page No.: 1 of 2
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/20/12 Date Finished: 1/24/12
VTSPG NAD83: N 326766.01 ft E 1588208.60 ft
Station: 103+72.35 Offset: 8.5 LT
Ground Elevation: 997.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/23/12	10.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft – 0.7 ft							
		Visual Class:, Gravel with asphalt, gry, Moist, Rec. = 0.2 ft			25/2				
		A-1-b, GrSa with asphalt, brn, Moist, Rec. = 1.1 ft			4-4-6-4 (10)	5.0	41.5	46.4	12.1
		A-3, Sa, brn, Moist, Rec. = 1.3 ft			4-4-5-4 (9)	2.7	0.6	91.5	7.9
		A-3, Sa, brn, Moist, Rec. = 1.5 ft			9-5-4-4 (9)	3.1	2.7	88.8	8.5
10		A-2-4, Sa, brn, MTW, Rec. = 0.8 ft			24-70/5 (70+)	14.6	6.9	75.3	17.8
		Cobbles, 11.0 ft – 13.5 ft							
		A-2-4, Sa, brn, Wet, Rec. = 1.2 ft			7-8-8-7 (16)	22.6	0.1	88.0	11.9
		A-2-4, Sa, brn, Wet, Rec. = 1.3 ft			4-9-11-11 (20)	23.2	0.1	86.4	13.5
20		A-4, Si, brn, Wet, Rec. = 1.3 ft			10-9-10-10 (19)	31.7		14.5	85.5
		A-4, Si, brn, Wet, Rec. = 1.5 ft			15-15-15-16 (30)	28.3	3.4	11.9	84.7
		A-2-4, Sa, brn, Moist, Rec. = 1.6 ft			15-19-19-16 (38)	22.6		86.2	13.8
30		Cobbles and boulders, 28.0 ft – 33.0 ft							
		A-4, SiSa, brn, Wet, Rec. = 1.5 ft			16-18-19-22 (37)	28.6		60.8	39.2
40		A-2-4, GrSiSa, gry-brn, Wet, Rec. = 1.4 ft			40-23-20-27 (43)	14.0	24.8	47.8	27.4
		A-2-4, GrSiSa, gry, Wet, Rec. = 1.7 ft			21-36-36-39 (72)	13.0	28.4	38.6	33.0
		Cobbles, 47.0 ft – 49.0 ft							
50		Rec. = 0.0 ft, 49.0 ft – 49.0 ft			50/0 (50+)				
		Cobbles, 49.1 ft – 52.0 ft							

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

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-105
Page No.: 2 of 2
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/20/12 Date Finished: 1/24/12
VTSPG NAD83: N 326766.01 ft E 1588208.60 ft
Station: 103+72.35 Offset: 8.5 LT
Ground Elevation: 997.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/23/12	10.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Probable weathered rock, 52.0 ft – 53.5 ft							
		53.5 ft – 55.0 ft							
60		55.0 ft – 59.0 ft, Gry, Phyllitic Schist, Hard, Slightly weathered, Poor rock, NXDC	1 (?)	58 (15)	Top of Bedrock @ 55.0 ft				
		59.0 ft – 64.0 ft, Gry, Phyllitic Schist, Very hard, Fresh, Very good rock, NXDC	2 (60)	100 (80)					
		64.0 ft – 69.0 ft, Gry, Phyllitic Schist, Very hard, Fresh, Very good rock, NXDC	3 (65)	100 (92)					
70		Hole stopped @ 69.0 ft							
80									
90									
100									

Notes:
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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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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

LUDLOW
BRF 025-1 (42)

Boring No.: B-106
Page No.: 1 of 1
Pin No.: 10J068
Checked By: SMC

Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC
Date Started: 1/25/12 Date Finished: 1/25/12
VTSPG NAD83: N 326737.73 ft E 1588255.17 ft
Station: 102+99.60 Offset: 38.6 RT
Ground Elevation: 998.0 ft

	Casing	Sampler
Type:	HW	SS
I.D.:	4 in	1.38 in
Hammer Wt:	300	140 lb.
Hammer Fall:	24	30 in.
Hammer/Rod Type:		Auto/N
Rig:	CME 75	CE = 1.3

Groundwater Observations

Date	Depth (ft)	Notes
01/25/12	15.0	

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-2-4, GrSiSa topsoil, brn, Moist, Rec. = 1.2 ft	3-2-3-4 (5)	43.7	21.2	45.3	33.5
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft	8-8-5-4 (13)	5.3	51.7	37.7	10.6
		A-1-a, SaGr broken rock within sample; thin layer buried topsoil within sample, brn, Moist, Rec. = 0.4 ft	6-10-6-4 (16)	11.0	55.6	30.3	14.1
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.6 ft	4-5-5-6 (10)	11.4			
10		Gravel lodged in tip of sampler, gry, Moist, Rec. = 0.1 ft, 10.0 ft - 10.1 ft	50/1 (50+)				
		Cobbles and boulders, 10.5 ft - 13.0 ft					
		Cobbles, 14.0 ft - 15.0 ft					
		A-1-a, SaGr, brn, Wet, Rec. = 1.1 ft	87-28-20-50/3 (48)	10.4	63.5	23.8	12.7
		A-1-a, Gr sample mostly broken rock, gry, Wet, Rec. = 0.7 ft	70-21-21-25 (42)	11.0	69.3	19.5	11.2
20		A-2-4, Sa, brn, Wet, Rec. = 1.2 ft	14-9-13-12 (21)	21.6	5.5	77.1	17.4
		A-2-4, Sa, brn, Wet, Rec. = 1.4 ft	12-9-9-6 (18)	19.2	2.7	85.0	12.3
30		A-4, Si, brn, Wet, Rec. = 1.2 ft	6-5-4-5 (9)	27.8	0.4	14.3	85.3
		A-2-4, Sa, brn, Wet, Rec. = 1.8 ft	17-17-18-22 (35)	20.2	0.8	82.2	17.0
40		A-2-4, SiSa, brn, Wet, Rec. = 1.3 ft	13-11-14-12 (25)	23.5	8.0	60.1	31.9
		Cobbles, 43.0 ft - 44.0 ft					
		A-2-4, SiSa, gry, Wet, Rec. = 1.2 ft	22-22-20-18 (42)	13.2	18.5	49.2	32.3
		Cobbles, 47.0 ft - 49.0 ft					
50		A-2-4, GrSiSa broken rock within sample, gry, Wet, Rec. = 0.7 ft	29-26-25-26 (51)	11.6	26.4	41.0	32.6
		Hole stopped @ 51.0 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. CE is the hammer energy correction factor. CE is an estimated value.
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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