

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-101			
LUDLOW BRF 025-1 (42)		Page No.: 1 of 1		Pin No.: 10J068			
Checked By: SMC		Casing Sampler		Groundwater Observations			
Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC		Type: HW SS	Date	Depth (ft)	Notes		
Date Started: 1/26/12 Date Finished: 1/27/12		I.D.: 4 in 1.38 in					
VTSPG NAD83: N 326718.81 ft E 1588076.53 ft		Hammer Wt: 300 140 lb.					
Station: 102+33.54 Offset: 30.7 LT		Hammer Fall: 24 30 in.					
Ground Elevation: 994.0 ft		Hammer/Rod Type: Auto/N					
		Rig: CME 75 C <sub>e</sub> = 1.3					
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft - 0.3 ft	50-14	14.9	26.6	49.7	23.7
		A-2-4, SiGrSa, gry, Moist, Rec. = 1.5 ft	7-5				
		A-2-4, Sa, brn, Moist, Rec. = 1.3 ft	(21)	5.3	0.9	87.7	11.4
			4-2-2				
			(4)				
		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft	8-5-4	12.6	53.8	35.7	10.5
		A-1-a, SaGr, brn, Wet, Rec. = 0.3 ft	(9)				
			7-4-5	10.2	64.1	30.1	5.8
			(9)				
10		A-2-4, GrSa, brn, Wet, Rec. = 0.5 ft	11-5-4	24.1	27.7	54.4	17.9
		A-1-a, Gr, brn, Wet, Rec. = 0.5 ft	(9)				
			15-16	14.7	73.5	17.1	9.4
			13-10				
			(29)				
		A-1-a, Gr, brn, Wet, Rec. = 0.8 ft	15-16	11.7	75.5	16.0	8.5
			25-44				
			(41)				
		A-3, GrSa, brn, Wet, Rec. = 1.5 ft	4-1-3	19.3	25.2	64.7	10.1
			12-15				
			(29)				
20		A-1-b, SaGr, tan, Wet, Rec. = 0.8 ft	24-33	11.9	55.8	28.1	16.1
			31-25				
			(64)				
		A-1-b, SaGr, tan, Wet, Rec. = 1.1 ft	8-29	11.5	49.2	36.1	14.7
			26-36				
			(55)				
30		A-2-4, SiSa, brn, Wet, Rec. = 1.2 ft	10-15	23.8		68.8	31.2
			16-15				
			(31)				
		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	9.8	19.7	33.1	47.2
			50/2				
			(100+)				
		Cobbles, 41.0 ft - 42.0 ft					
		A-2-4, SaGrSi, gry, Wet, Rec. = 0.4 ft	100/5	8.4	33.4	32.8	33.8
			(100+)				
		Cobbles, 45.0 ft - 47.0 ft					
50		A-4, GrSaSi, gry, Wet, Rec. = 0.4 ft	100/5	9.1	25.7	36.6	37.7
			(100+)				
		Hole stopped @ 49.5 ft					

ABOUT NO. 1  
BOTTOM OF  
PILE CAP  
EL. 984.0

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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<sub>e</sub> is the hammer energy correction factor. C<sub>e</sub> 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.

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102					
LUDLOW BRF 025-1 (42)		Page No.: 1 of 2		Pin No.: 10J068					
Checked By: SMC		Casing Sampler		Groundwater Observations					
Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC		Type: HW SS	Date	Depth (ft)	Notes				
Date Started: 1/17/12 Date Finished: 1/19/12		I.D.: 4 in 1.38 in							
VTSPG NAD83: N 326686.47 ft E 1588110.59 ft		Hammer Wt: 300 140 lb.							
Station: 102+48.28 Offset: 13.9 RT		Hammer Fall: 24 30 in.							
Ground Elevation: 994.0 ft		Hammer/Rod Type: Auto/N							
		Rig: CME 75 C <sub>e</sub> = 1.3							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Cone Rec. % (RCD %)	Blow/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt, 0.0 ft - 0.5 ft			25/4	5.2	39.0	44.5	16.5
		A-1-b, GrSa, gry, Moist, Rec. = 0.3 ft							
		A-1-b, SaGr, tan, Moist, Rec. = 0.9 ft			5-12	4.6	45.2	40.8	14.0
					8-8				
					(20)				
		A-1-b, GrSa trace asphalt at 6 ft, gry, Rec. = 0.8 ft			9-6-3	3.4	41.9	45.3	12.8
					(9)				
		A-1-b, GrSa, tan, Moist			5-7	5.3	53.1	37.5	9.4
					13-9				
					(20)				
10		A-2-4, Sa, tan, Moist, Rec. = 1.1 ft			2-3-4	10.8	6.9	79.2	13.9
					(7)				
		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft			6-8	4.2	50.5	40.4	9.1
					15-				
					25/1				
					(28)				
		Cobbles and boulders, 14.0 ft - 18.0 ft							
20		A-4, SiSa, brn, MTW, Rec. = 1.5 ft			14-17	28.8		62.1	37.9
					19-16				
					(36)				
		A-2-4, SiSa, brn, MTW			16-17	25.6		73.2	26.8
					14-18				
					(31)				
		A-2-4, SiSa, brn, Moist			13-18	25.4		75.2	24.8
					21-21				
					(39)				
		A-2-4, Sa, tan, Wet, Rec. = 1.4 ft			8-17	24.3	1.8	83.8	14.4
					19-16				
					(36)				
30		Cobbles, 27.5 ft - 28.5 ft							
		A-1-b, SiSaGr, gry, Wet, Rec. = 1.1 ft			35-38	12.8	39.3	38.1	22.6
					(55)				
		Cobbles, 32.0 ft - 34.0 ft							
		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft			21-19	10.9	53.8	33.1	13.1
					30-32				
					(49)				
		Cobble, 36.0 ft - 36.5 ft							
40		A-4, SaSi, brn, Wet, Rec. = 1.2 ft			19-25	24.1	13.7	34.1	52.2
					50/4				
					(75+)				
		42.0 ft - 52.0 ft. NXDC. Cored glacial till from 42 to 52 feet. Visual classification: Silty sand with gravel.							

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STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-102					
LUDLOW BRF 025-1 (42)		Page No.: 2 of 2		Pin No.: 10J068					
Checked By: SMC		Casing Sampler		Groundwater Observations					
Boring Crew: Geosearch, Inc. Fitchburg, MA, MJC		Type: HW SS	Date	Depth (ft)	Notes				
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Station: 102+48.28 Offset: 13.9 RT		Hammer Fall: 24 30 in.							
Ground Elevation: 994.0 ft		Hammer/Rod Type: Auto/N							
		Rig: CME 75 C <sub>e</sub> = 1.3							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Cone Rec. % (RCD %)	Blow/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SaGrSi, gry, Wet, Rec. = 1.2 ft			26-51-	9.3	32.5	29.9	37.6
					45-				
					50/3				
					(97)				
60		Visual Class.: broken rock with silt and sand, gry, Wet, Rec. = 0.3 ft			50/4	26.3			
					(50+)				
		Possible cobbles, 61.0 ft - 64.0 ft							
		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							
70									
		Hole stopped @ 74.0 ft							
80									
90									
100									

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EST. PILE PENETRATION

PROJECT NAME: LUDLOW  
PROJECT NUMBER: BRF 025-1(42)  
FILE NAME: z10J068borlogs.dgn PLOT DATE: 8/23/2016  
PROJECT LEADER: A.P. GUYETTE DRAWN BY: E.F. LAWES  
DESIGNED BY: VTRANS CHECKED BY: A. GUYETTE  
BORING LOGS (1 OF 3) SHEET 32 OF 73

