



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

BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-101  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/20/12 Date Finished: 7/20/12  
VTSPG NAD83: N 731095.68 ft E 1462467.81 ft  
Station: 4+16 Offset: -37.00  
Ground Elevation: 326.52 ft

Casing H.S.A. Sampler SS  
Type: H.S.A. SS  
I.D.: 3.5 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		No water to death.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-4, SaSi, brn, MTW, Rec. = 1.5 ft		13.6	9.1	35.1	55.8
		A-4, SaSi, brn, MTW, Rec. = 1.7 ft	2-2-1-3 (3)	17.9	3.1	42.7	54.2
		A-4, SaSi, brn, MTW, Rec. = 1.6 ft	2-2-2-5 (4)	22.2	7.9	30.3	61.8
		Visual Description:, SiSaGr, brn, MTW, Rec. = 0.1 ft, Insufficient sample for testing.	4-3-R@1.0"	26.3			
10		Hole stopped @ 7.1 ft CNPf-TLOB					
15							
20							
25							

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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-102  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/20/12 Date Finished: 7/20/12  
VTSPG NAD83: N 731069.44 ft E 1462559.12 ft  
Station: 4+17 Offset: 58.00  
Ground Elevation: 324.59 ft

Casing: H.S.A. Sampler: SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
07/20/12	12.5	After 1/2 hr. lunch.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-2-4, Sa, brn, MTW, Rec. = 1.8 ft	3-4-6-9 (10)	4.1	18.8	68.3	12.9		
		A-1-b, Sa, brn, MTW, Rec. = 1.8 ft	5-10-11-15 (21)	4.8	19.6	70.3	10.1		
5		A-2-4, Sa, brn, MTW, Rec. = 2.0 ft	7-11-10-10 (21)	8.1	16.8	70.5	12.7		
		A-1-b, GrSa, brn, MTW, Rec. = 1.0 ft	8-7-5-7 (12)	11.3	21.1	65.8	13.1		
		A-4, Si, brn, MTW, Rec. = 1.0 ft		22.0	1.3	8.4	90.3		
		A-4, Si, brn, MTW, Rec. = 1.9 ft	3-4-6-5 (10)	25.5		2.3	97.7	30	4
10		A-4, CISi, brn, MTW, Rec. = 2.0 ft, Material from Triaxial "B" Test Sample.		28.9		0.9	99.1	34	8
		Visual Description:, CISi, brn, MTW, Rec. = 2.0 ft, Similar material as 14-16 ft.	1-2-2-3 (4)	33.0					
		A-4, CISi, brn, MTW, Rec. = 2.0 ft	1-1-2-1 (3)	32.2		1.7	98.3	34	7
20		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft	WH-WH-WH-2 (WH)	45.6	0.6	4.1	95.3	52	30
25		Visual Description:, Cl, gry, MTW, Rec. = 1.7 ft, Similar material as 19-21 ft.	WH-WH-2-R@1.5" (2)	34.2					
Hole stopped @ 25.6 ft CNPF-TLOB									

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.

BORING LOG 2 COLCHESTER HES NH 5600(14).CPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-103  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/19/12 Date Finished: 7/19/12  
 VTSPG NAD83: N 731191.52 ft E 1462490.85 ft  
 Station: 5+14 Offset: -43.00  
 Ground Elevation: 325.0 ft

Casing H.S.A. Sampler SS  
 I.D.: 3.5 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, brn, MTW, Rec. = 1.2 ft	3-5-9-3 (14)	8.7	50.0	33.3	16.7
		A-1-b, GrSa, brn, MTW, Rec. = 1.0 ft	4-2-2-R@2.5"	16.1	36.3	46.6	17.1

Hole stopped @ 3.7 ft  
 CNPF-TLOB

Remarks:

- At Station 5+14: Electrical caution tape was within the 2.0' - 3.7' sample.
- Moved Hole to 5+19 and advanced casing to 3.7 feet, but could not penetrate further.

Notes:

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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-104  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/20/12 Date Finished: 7/23/12  
 VTSPG NAD83: N 731168.78 ft E 1462581.18 ft  
 Station: 5+19 Offset: 50.00  
 Ground Elevation: 324.79 ft

Type: H.S.A. Sampler SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
07/23/12	17.0	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, GrSiSa, brn, MTW, Rec. = 1.0 ft	1-2-3-4 (5)	13.5	21.0	46.8	32.2		
		A-1-b, SiGrSa, brn, MTW, Rec. = 1.6 ft	2-4-5-6 (9)	8.0	27.4	52.4	20.2		
		A-1-b, GrSa, brn, MTW, Rec. = 1.4 ft	3-5-5-3 (10)	9.0	24.4	59.1	16.5		
10		A-4, SaSi, brn, MTW, Rec. = 2.0 ft	2-5-5-6 (10)	22.3	5.0	23.9	71.1		
		A-4, Cisi, brn, MTW, Rec. = 2.0 ft	2-3-3-2 (6)	29.9	0.1	4.8	95.1	33	7
		Visual Description: Si, brn, MTW, Rec. = 2.0 ft, Similar material as 14-16 ft.	4-3-3-3 (6)	31.9					
15		A-4, Si, gry, MTW, Rec. = 2.0 ft	1-1-1-1 (2)	31.5		0.9	99.1	30	6
20		A-7-6, Cl, gry, MTW, Sample from middle of tube.		43.8	10.3	7.4	82.3	56	33
25		Visual Description: Si with stones, gry, MTW, Rec. = 0.2 ft, Similar material as 14-16 ft.	3-R@2.5"	16.4					

Hole stopped @ 24.7 ft  
 CNPF-TLOB

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-105  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/19/12 Date Finished: 7/19/12  
VTSPG NAD83: N 731274.17 ft E 1462509.62 ft  
Station: 5+98 Offset: -50.40  
Ground Elevation: 327.76 ft

Casing: H.S.A. Sampler: SS  
I.D.: 3.5 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Collapsed at 6.2 ft.
		None taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Groundwater Observations			
				Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiGrSa, brn, MTW, Rec. = 1.5 ft, Broken Rock was within sample.	1-3-13-18 (16)	9.1	31.0	43.9	25.1
		A-1-b, SaGr, brn, MTW, Rec. = 0.8 ft	22-7-6-6 (13)	6.3	56.1	27.0	16.9
		A-1-b, SaGr, brn, MTW, Rec. = 0.6 ft	6-4-4-6 (8)	7.2	59.8	25.6	14.6
		Visual Description:, SaGr, brn, MTW, Rec. = 0.2 ft	4-9-10-11 (19)	13.9			
		A-1-b, SaGr, brn, MTW, Rec. = 1.2 ft	3-4-5-7 (9)	12.1	58.8	27.5	13.7
10		Visual Description:, Broken Rock, gry, MTW, Rec. = 1.0 ft	31-R@5.0"	6.4			
Hole stopped @ 11.0 ft CNPf-TLOB							

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BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-106

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Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/23/12 Date Finished: 7/23/12  
 VTSPG NAD83: N 731243.87 ft E 1462597.56 ft  
 Station: 5+96 Offset: 43.00  
 Ground Elevation: 326.03 ft

Type: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
07/23/12	17.0	Same Day.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-4, SaSi, brn, MTW, Rec. = 1.0 ft	2-2-3-22 (5)	16.6	15.4	39.5	45.1		
		A-2-4, SiSaGr, gry, MTW, Rec. = 0.7 ft, Broken Rock was within sample.	5-3-4-4 (7)	12.0	39.8	30.4	29.8		
5		A-4, SaSi, brn, MTW, Rec. = 1.8 ft	3-3-2-2 (5)	21.8	11.7	38.9	49.4		
		A-4, Si, brn, MTW, Rec. = 2.0 ft	3-5-4-7 (9)	26.0	0.7	3.2	96.1	29	4
		Visual Description:, Cisi, gry, MTW, Rec. = 1.8 ft, Similar material as 10-12 ft.	3-4-5-4 (9)	30.1					
10		A-4, Cisi, gry, MTW, Rec. = 1.7 ft	4-4-3-3 (7)	32.1		3.8	96.2	34	7
		Visual Description:, Cisi, gry, MTW, Rec. = 1.8 ft, Similar material as 10-12 ft.	WH-1-1- 2 (2)	34.5					
20		A-7-6, Ci, gry, MTW, Rec. = 2.0 ft	WH-1-1- 2 (2)	34.8	10.5	24.0	65.5	47	27
		Hole stopped @ 21.2 ft CNPf-TLOB							
25									

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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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SUBSURFACE INFORMATION

BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-107  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/11/12 Date Finished: 7/12/12  
VTSPG NAD83: N 731553.69 ft E 1462584.21 ft  
Station: 8+87 Offset: -64.20  
Ground Elevation: 325.07 ft

Casing Sampler  
Type: H.S.A. SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-1-a, SaGr, brn, MTW, Rec. = 0.6 ft				2-3-3-9 (6)	4.4	54.8	31.7	13.5
		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft				9-13-10-10 (23)	3.8	55.0	32.0	13.0
		Visual Description: SaGr with Broken Rock, gry, MTW, Rec. = 0.2 ft, Possible Voids were in this area. Insufficient sample for testing.				3-1-WH-1 (1)	6.1			
10		6.0 ft - 9.2 ft, Light gray, Dolomite, Moderately hard, Unweathered, Poor rock, BXMDC, Closely space jointing. RMR = 38	1 (10)	100 (22)	9	Top of Bedrock @ 6.0 ft				
					5					
					6					
		9.2 ft - 14.2 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, Closely space jointing. RMR = 48	2 (10)	94 (54)	4					
					4					
			3							
			4							
			5							
15		Hole stopped @ 14.2 ft								

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BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-108  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/18/12 Date Finished: 7/18/12  
 VTSPG NAD83: N 731605.46 ft E 1462627.28 ft  
 Station: 9+50 Offset: -38.00  
 Ground Elevation: 327.25 ft

Casing: WB Sampler: SS  
 I.D.: 3 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		None Taken.
		Same day drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.8 ft								
		A-1-a, SaGr, brn, MTW, Rec. = 0.8 ft				9-12	7.6	62.2	28.3	9.5
		A-1-a, SaGr, brn, MTW, Rec. = 1.0 ft				11-8-5-7 (13)	6.2	68.2	23.8	8.0
5		Visual Description:, SaGr with 1.5" stones, brn, MTW, Rec. = 0.2 ft, Insufficient sample for testing.				4-3-2-2 (5)	9.5			
		Visual Description:, SaGr with 1.5" stones, brn, MTW, Rec. = 0.2 ft, Insufficient sample for testing.				5-4-3-3 (7)	7.6			
		A-1-a, SaGr, brn, MTW, Rec. = 1.0 ft, Broken Rock was within sample.				6-20-R@2.5"	12.8	58.7	32.6	8.7
10		10.0 ft - 15.0 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, Close to moderately closely spaced jointing. RMR = 53	1 (10)	100 (52)	6 5 6 6 5	Top of Bedrock @			10.0	ft
15		Hole stopped @ 15.0 ft								
20										
25										

Notes:  
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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-109

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Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/11/12 Date Finished: 7/11/12  
VTSPG NAD83: N 731658.62 ft E 1462644.29 ft  
Station: 10+06 Offset: -37.00  
Ground Elevation: 327.44 ft

Casing Type: H.S.A. Sampler: SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.7 ft								
		A-1-a, SaGr with lots of Asphalt Pavement within sample, brn, Moist, Sample from auger flights.					1.2	59.9	26.1	14.0
		A-1-b, GrSa, brn, Moist, Rec. = 1.8 ft				22-8-17-28 (25)	5.8	41.1	46.3	12.6
5		A-1-a, Gr, gry, Moist, Rec. = 1.3 ft, Broken Rock was within sample.				12-27-21-19 (48)	1.4	78.0	15.2	6.8
		Visual Description:, Broken Rock, gry, Wet, Rec. = 0.5 ft				3-5-6-12 (11)				
		8.2 ft - 9.9 ft, Light gray, Dolomite, Moderately hard, Unweathered, Poor rock, BXMDC, Mechanical breakage. RMR = 38	1 (10)	70	7	Top of Bedrock @ 8.2 ft				
10		9.9 ft - 10.7 ft, Light gray, Dolomite, Moderately hard, Unweathered, Poor rock, BXMDC, Mechanical breakage. RMR = 38	2 (10)	100	7					
		10.7 ft - 11.7 ft, Light gray, Dolomite, Moderately hard, Unweathered, Poor rock, BXMDC, Mechanical breakage. RMR = 38	3 (10)	100	8					
		11.7 ft - 16.7 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, Mechanical breakage. RMR = 48	4 (10)	96 (56)	7					
15					4					
					4					
					5					
		Hole stopped @ 16.7 ft								
20										
25										

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.  
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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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-110

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Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/11/12 Date Finished: 7/16/12  
 VTSPG NAD83: N 731683.62 ft E 1462492.52 ft  
 Station: A 0+67 Offset: 30.00  
 Ground Elevation: 327.23 ft

Type: H.S.A. SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
07/17/12	5.3	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft				1-3-9-29 (12)	5.8	58.4	31.1	10.5
		A-1-a, Gr, gry, Moist, Rec. = 1.6 ft				25-33-26-21 (59)	0.7	73.3	19.2	7.5
5		4.0 ft - 5.0 ft, Broken Rock. Not Competent.. BXDC, Possible Bedrock.								
		5.0 ft - 10.0 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, Closely spaced jointing. RMR = 43	1 (10)	90 (36)	4	Top of Bedrock @ 5.0 ft				
10	Hole stopped @ 10.0 ft CNPF-TLOB									
15										
20										
25										

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12





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

BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-112

Page No.: 1 of 1

Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/11/12 Date Finished: 7/11/12  
 VTSPG NAD83: N 731825.72 ft E 1462793.35 ft  
 Station: 12+09 Offset: 58.30  
 Ground Elevation: 330.96 ft

Type: H.S.A. SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, SiGrSa, brn, Moist, Rec. = 0.8 ft	2-3-1-2 (4)	7.8	24.3	54.1	21.6		
		A-1-b, Sa, brn, Moist, Rec. = 1.3 ft	1-2-1-1 (3)	1.9	17.3	73.5	9.2		
		A-2-4, Sa, brn, Moist, Rec. = 0.9 ft	3-1-2-4 (3)	5.5	17.5	66.2	16.3		
		A-2-4, SiSa, brn, MTW, Rec. = 0.9 ft	5-3-3-4 (6)	10.1	12.7	56.8	30.5		
		A-6, SaCl, brn, MTW, Rec. = 0.6 ft	4-2-4-4 (6)	24.6	11.1	28.3	60.6	39	21
10		A-7-6, Cl, gry, MTW, Rec. = 1.1 ft	2-3-5-7 (8)	29.2	0.3	4.3	95.4	50	24
Hole stopped @ 12.5 ft CNPf-TLOB									

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-113  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/11/12 Date Finished: 7/11/12  
 VTSPG NAD83: N 731890.94 ft E 1462785.32 ft  
 Station: 12+69 Offset: 32.00  
 Ground Elevation: 332.08 ft

Type: H.S.A. Sampler SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		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 - 0.7 ft					
		A-1-a, SaGr, brn, Moist, Sample from auger flights.	11-R	3.1	63.3	28.7	8.0
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.4 ft	8-32-44-R (76)	5.1	28.6	50.2	21.2
		A-1-a, Gr, brn, Moist, Rec. = 0.8 ft, Lots of Broken Rock was within sample.	12-25-R (R)	4.2	70.2	17.5	12.3
5		Hole stopped @ 4.9 ft CNPf-TLOB					
10							
15							
20							
25							

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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SUBSURFACE INFORMATION

BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-114

Page No.: 1 of 1

Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/10/12 Date Finished: 7/10/12  
VTSPG NAD83: N 731940.46 ft E 1462809.22 ft  
Station: 13+23 Offset: 41.00  
Ground Elevation: 333.22 ft

Casing: H.S.A. Sampler: SS  
Type: H.S.A. I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water to depth.
		Same day drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft	7-10-7-7 (17)	5.1	49.8	35.0	15.2		
		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft	5-11-19-6 (30)	7.4	52.1	32.8	15.1		
5		A-6, SaCl, brn, MTW, Rec. = 0.8 ft	1-2-1-5 (3)	16.8	18.5	42.4	39.1	28	17
		Visual Description:, SaCl, brn, MTW, Rec. = 1.3 ft, Similar material as 4.0-6.0 ft.	1-2-4-6 (6)	18.8					
		A-6, GrSaCl, brn, MTW, Rec. = 0.7 ft	1-2-23-20 (25)	17.2	24.8	32.4	42.8	32	20
10		A-2-4, SaSiGr, brn, MTW, Rec. = 0.7 ft		11.6	40.9	29.3	29.8		
		Visual Description:, SaSiGr, brn, MTW, Rec. = 0.2 ft, Insufficient sample for testing.	R@2.5"	15.1					
		Hole stopped @ 10.2 ft CNPf-TLOB							

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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).CPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-115  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/09/12 Date Finished: 7/09/12  
 VTSPG NAD83: N 731985.65 ft E 1462847.31 ft  
 Station: 13+77 Offset: 65.10  
 Ground Elevation: 329.46 ft

Casing H.S.A. Sampler SS  
 Type: H.S.A. SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
07/10/12	7.1	AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-2-4, SiGrSa, brn, MTW, Rec. = 1.0 ft	1-3-3-3 (6)	10.3	26.7	49.5	23.8		
		A-4, SaCISi, brn, MTW, Rec. = 0.9 ft	2-2-2-2 (4)	23.3	2.1	27.4	70.5	29	10
5		Visual Description:, Cl, brn, MTW, Rec. = 0.9 ft, Similar material as 6.0-8.0 ft.	1-3-1-3 (4)	23.8				47	22
		A-7-6, Cl, brn, MTW, Rec. = 0.9 ft	4-6-8-9 (14)	29.5	0.2	6.5	93.3		
		Visual Description:, SiCl with stones, brn, MTW, Rec. = 0.9 ft		18.4					
		A-1-b, SaGr, brn, MTW, Rec. = 0.9 ft	7-24-50- R (74)	13.6	44.1	38.5	17.4		
10		Hole stopped @ 9.4 ft CNPf-TLOB							
15									
20									
25									

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12

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.  
 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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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-116  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/10/12 Date Finished: 7/10/12  
 VTSPG NAD83: N 731773.45 ft E 1462943.51 ft  
 Station: D 2+29 Offset: 32.30  
 Ground Elevation: 325.7 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
07/11/12	3.5	Auger left overnight.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-1-b, Sa, brn, Moist, Rec. = 1.1 ft	1-1-1-3 (2)	7.9	15.5	77.0	7.5		
		A-2-4, Sa, brn, MTW, Rec. = 1.8 ft	3-4-5-10 (9)	14.4	19.3	67.1	13.6		
10		A-7-6, Cl, brn, MTW, Rec. = 0.5 ft	2-7-5-8 (12)	45.9		2.7	97.3	52	28
		A-2-4, SiGrSa, gry, MTW, Rec. = 0.5 ft		16.4	22.7	56.6	20.7		
		A-7-6, Cl, gry, MTW, Rec. = 1.4 ft	3-2-3-4 (5)	30.1	2.4	15.4	82.2	43	22
		Visual Description:, Cl, gry, MTW, Rec. = 1.9 ft, Similar material as 10.0 - 12.0 ft.	1-3-5-7 (8)	33.9					
15		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft	8-8-8-8 (16)	37.6	0.5	6.3	93.2	51	24
		Visual Description:, Cl, gry, MTW, Rec. = 0.9 ft, Similar material as 10.0 - 12.0 ft.	1-R@5.0"	33.7					
15		Hole stopped @ 13.9 ft CNPF-TLOB							

Notes:

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BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-117  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/10/12 Date Finished: 7/10/12  
VTSPG NAD83: N 731837.02 ft E 1462977.32 ft  
Station: D 2+29 Offset: -36.70  
Ground Elevation: 322.77 ft

Casing: H.S.A. Sampler: SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-6, SaSiCl, brn, MTW, Rec. = 0.6 ft	1-1-1-18 (2)	26.2	11.3	22.4	66.3	40	16
		Visual Description:., SaSiCl, brn, MTW, Rec. = 0.6 ft, Similar material as 0.0 - 2.0 ft.	1-2-1-2 (3)	23.1					
5		A-7-6, Cl, gry, MTW, Rec. = 0.4 ft		25.7	0.6	16.0	83.4	45	23
		Visual Description:., Cl, gry, MTW, Rec. = 0.8 ft, Similar material as 3.0 - 4.0 ft.	WH-1-WH-1 (1)	27.1					
		Visual Description:., Cl with Stones, gry, MTW, Rec. = 2.0 ft, Similar material as 8.0 - 10.0 ft.	3-4-6-9 (10)	28.2					
		A-7-6, Cl, brn, MTW, Rec. = 1.0 ft	3-4-6-6 (10)	31.3	12.9	8.5	78.6	46	22
10		A-7-6, Cl, brn, MTW, Rec. = 1.85 ft, Material from Triaxial "B" sample.		46.1		2.3	97.7	67	38
		Visual Description:., Cl, brn, MTW, Rec. = 1.2 ft, Similar material as 8.0 - 10.0 ft.	2-3-R@2.5"	32.3					
		Hole stopped @ 14.2 ft CNPf-TLOB							
15									
20									
25									

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT .AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-118  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/09/12 Date Finished: 7/09/12  
 VTSPG NAD83: N 732153.02 ft E 1462871.32 ft  
 Station: 15+44 Offset: 43.00  
 Ground Elevation: 341.17 ft

Type: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, GrSa, brn, MTW, Rec. = 0.9 ft	1-3-3-2 (6)	9.6	35.6	46.4	18.0		
		A-2-4, SiSaGr, brn, MTW, Rec. = 0.6 ft	2-4-4-5 (8)	12.4	42.7	31.1	26.2		
		A-4, Cisi, brn, MTW, Rec. = 0.5 ft	1-R (R)	16.1	11.6	14.2	74.2	27	10
5		Hole stopped @ 4.8 ft CNPF-TLOB							
10									
15									
20									
25									

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

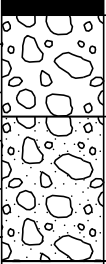
Boring No.: B-120  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 732336.34 ft E 1462835.75 ft  
 Station: 17+10 Offset: -43.00  
 Ground Elevation: 346.79 ft

Casing AUGER Sampler AUGER  
 Type: AUGER AUGER  
 I.D.: \_\_\_\_\_  
 Hammer Wt: N.A. N.A.  
 Hammer Fall: N.A. N.A.  
 Hammer/Rod Type: \_\_\_\_\_  
 Rig: CME 45C TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note:, Asphalt Pavement Visual Description:, Gr with 1-3" stones		0.7			
5		A-1-b, GrSa, brn, Moist		4.7	35.8	54.2	10.0
		Hole stopped @ 5.5 ft CNPf-TLOB					

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12

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.  
 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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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-121  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 732326.01 ft E 1462931.92 ft  
 Station: 17+28 Offset: -52.00  
 Ground Elevation: 348.74 ft

Casing AUGER Sampler AUGER  
 Type: AUGER I.D.: \_\_\_\_\_  
 Hammer Wt: N.A. Hammer Fall: N.A.  
 Hammer/Rod Type: \_\_\_\_\_  
 Rig: CME 45C TRACK CE = \_\_\_\_\_

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Groundwater Observations				
			Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0		Field Note:, Asphalt Pavement Visual Description:, Gr with 1-3" stones, brn, Moist		0.3			
0		A-1-a, SaGr, brn, Moist		5.9	54.3	37.9	7.8
5		Hole stopped @ 4.2 ft CNPf-TLOB					
10							
15							
20							
25							

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-122  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/09/12 Date Finished: 7/09/12  
 VTSPG NAD83: N 732411.45 ft E 1462958.50 ft  
 Station: 18+18 Offset: 52.00  
 Ground Elevation: 349.11 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %	
5		A-6, SaSiCl, brn, MTW, Rec. = 0.9 ft	2-3-4-8 (7)	20.6	2.0	24.4	73.6	28	11	
		A-6, SiCl, brn, MTW, Rec. = 1.5 ft	5-6-8-13 (14)	22.5		10.5	89.5	37	17	
		Visual Description:, Cl, brn, MTW, Rec. = 1.9 ft, Similar material as 6.0-8.0 ft.	4-5-5-8 (10)	24.1						
		A-7-6, Cl, brn, MTW, Rec. = 1.7 ft	9-10-13-13 (23)	26.0	1.7	7.4	90.9	47	24	
		Visual Description:, Cl with stones, brn, MTW, Rec. = 1.0 ft, Similar material as 6.0-8.0 ft.	2-6-R (R)	17.2						
10		Hole stopped @ 9.0 ft CNPf-TLOB								
15										
20										
25										

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.
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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

BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-124  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW  
 Date Started: 7/02/12 Date Finished: 7/02/12  
 VTSPG NAD83: N 733755.59 ft E 1463171.24 ft  
 Station: 31+85 Offset: -47.00  
 Ground Elevation: 334.4 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
07/02/12	4.0	1 hr. after drilled.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft	2-4-4-3 (8)	5.3	56.7	32.2	11.1		
		A-2-4, Sa, brn, MTW, Rec. = 0.9 ft, 1 1/2 inch crushed stone came off auger flights.	2-1-2-2 (3)	21.8	19.1	65.4	15.5		
		A-6, SaSiCl, brn, MTW, Rec. = 1.6 ft	2-2-2-2 (4)	22.7	16.6	30.4	53.0	31	12
		Visual Description:, Cl, brn, Moist, Rec. = 1.6 ft, Similar material as 8.0-9.6 ft.	2-4-5-8 (9)	30.3					
		A-7-6, Cl, brn, Moist, Rec. = 1.3 ft	1-3-5-12 (8)	29.1	0.8	3.8	95.4	52	27
10		Visual Description:, GrSaCl, gry, Moist, Rec. = 0.4 ft, Similar material as 10.0-12.0 ft.	5-5-8-7 (13)	24.0	20.6	21.5	57.9	28	11
		A-6, GrSaCl, gry-brn, Moist, Rec. = 0.4 ft		29.1					
15		Hole stopped @ 12.8 ft CNPF-TLOB							

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-125  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, WHITLOCK  
Date Started: 7/05/12 Date Finished: 7/05/12  
VTSPG NAD83: N 733751.43 ft E 1463264.15 ft  
Station: 31+85 Offset: 46.00  
Ground Elevation: 333.3 ft

Casing H.S.A. Sampler SS  
Type: H.S.A. SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		Same day drilling.
		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, GrSa, brn, Moist, Rec. = 1.3 ft	2-3-5-4 (8)	14.2	29.8	51.5	18.7		
		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft	2-3-2-2 (5)	13.3	50.6	38.5	10.9		
		A-2-4, GrSa, brn, Moist, Rec. = 0.8 ft	2-2-4-4 (6)	20.1	29.4	51.1	19.5		
		A-6, SaSiCl, brn, Moist, Rec. = 1.2 ft	5-5-R@2.5"	20.9	12.9	22.7	64.4	38	17
10		Hole stopped @ 7.2 ft CNPF-TLOB							
15									
20									
25									

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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).CPJ VERMONT AOT.GDT 9/11/12



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

BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-126  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW  
Date Started: 6/27/12 Date Finished: 6/27/12  
VTSPG NAD83: N 733820.07 ft E 1463164.77 ft  
Station: 32+50 Offset: -56.00  
Ground Elevation: 334.45 ft

Casing H.S.A. Sampler SS  
Type: H.S.A. SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		A-2-4, GrSiSa, brn, Moist, Rec. = 0.4 ft	2-5-4-2 (9)	13.1	20.7	51.4	27.9		
		Visual Description:, GrSa, brn, Moist, Rec. = 0.3 ft, Insufficient sample for testing.	2-3-3-3 (6)	7.4					
		Visual Description:, Cl, brn, Moist, Rec. = 1.4 ft, Similar material as 6-8 ft.	2-1-3-4 (4)	27.7					
		A-7-6, Cl, brn, Moist, Rec. = 2.0 ft	6-8-10-10 (18)	31.6	0.7	5.8	93.5	52	24
		Visual Description:, Cl, brn, Moist, Rec. = 1.6 ft, Similar material as 6-8 ft.	3-3-7-15 (10)	27.3					
10		A-4, SaSi, brn, Moist, Rec. = 0.7 ft	12-R@2.5"	12.9	19.9	31.8	48.3	21	6
Hole stopped @ 10.7 ft CNPF-TLOB									
15									
20									
25									

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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-127  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW  
 Date Started: 7/02/12 Date Finished: 7/05/12  
 VTSPG NAD83: N 733839.26 ft E 1463263.34 ft  
 Station: 32+72 Offset: 42.00  
 Ground Elevation: 332.29 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
07/05/12	3.5	AM

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 %	LL %	PI %
		A-2-4, GrSa, brn, Moist, Rec. = 1.0 ft				1-3-3-3 (6)	7.2	31.2	52.3	16.5		
		A-3, Sa, brn, Moist, Rec. = 1.0 ft				1-2-1-2 (3)	5.4	12.6	81.8	5.6		
5		A-4, GrSiSa, gry-brn, Moist, Rec. = 1.5 ft				3-3-3-4 (6)	18.5	23.5	39.4	37.1	31	2
		A-6, SaSiCl, gry-brn, Moist, Rec. = 1.5 ft				6-5-5-7 (10)	25.5	11.3	22.4	66.3	40	18
10		Visual Description:, Cl, gry-brn, Moist, Rec. = 1.7 ft, Similar material as 10.0-12.0 ft.				3-4-4-5 (8)	32.2					
		A-7-6, Cl, gry-brn, Moist, Rec. = 1.9 ft				5-7-7-8 (14)	32.2	0.4	4.7	94.9	50	24
15		13.2 ft - 18.2 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXMDC, Closely spaced jointing. RMR = 52	1 (10)	94 (84)	6 7 7 6 4							
		Hole stopped @ 18.2 ft										
20												
25												

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14)GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-128  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW  
 Date Started: 6/27/12 Date Finished: 6/27/12  
 VTSPG NAD83: N 734927.60 ft E 1463191.14 ft  
 Station: 43+60 Offset: -34.00  
 Ground Elevation: 319.73 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Moist, Rec. = 1.3 ft	2-6-6-4 (12)	9.4	40.5	43.3	16.2
		A-2-4, GrSa, brn, Moist, Rec. = 0.8 ft	3-3-3-3 (6)	8.2	37.2	51.3	11.5
5		A-1-b, SaGr, brn, Moist, Rec. = 0.7 ft, Lab Note: Broken Rock was within sample.	4-3-3-4 (6)	12.1	55.5	33.5	11.0
		A-1-a, Gr, brn-white, Moist, Rec. = 1.2 ft, Lab Note: Mostly Broken/Crushed Rock.	8-25-R@2.5"	8.5	76.0	17.9	6.1
10		Hole stopped @ 7.2 ft CNPf-TLOB					
15							
20							
25							

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14) GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-129  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW  
 Date Started: 6/27/12 Date Finished: 6/27/12  
 VTSPG NAD83: N 734951.36 ft E 1463176.73 ft  
 Station: 43+84 Offset: -48.00  
 Ground Elevation: 319.19 ft

Type: H.S.A. SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		None Taken.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft	1-2-3-5 (5)	11.6	38.1	45.0	16.9
		A-1-a, SaGr, brn-white, Moist, Rec. = 1.0 ft, Lab Note: Mostly Broken/Crushed Rock.	4-34-R@6.0"	3.4	69.7	21.6	8.7
5		Hole stopped @ 3.5 ft CNPF-TLOB					
		Remarks: 1. Ledge crop in area.					
10							
15							
20							
25							

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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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

BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-130

Page No.: 1 of 1

Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, GARROW, HOLT  
Date Started: 6/20/12 Date Finished: 6/25/12  
VTSPG NAD83: N 735034.31 ft E 1463289.59 ft  
Station: 44+65 Offset: 66.00  
Ground Elevation: 315.75 ft

Casing Type: H.S.A. Sampler: SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
06/25/12	5.0	AM

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 %	LL %	PI %
5		A-2-4, SiSa, brn, Moist, Rec. = 1.1 ft				2-4-4-5 (8)	10.3	12.3	59.5	28.2		
		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft				4-4-4-3 (8)	18.1	0.5	69.1	30.4		
		A-2-4, Sa, brn, Wet, Rec. = 2.0 ft				3-4-3-3 (7)	20.8	1.1	83.2	15.7		
		A-2-4, Sa, brn, Wet, Rec. = 1.0 ft				4-4-6-6 (10)	20.6	1.2	87.9	10.9		
		A-4, Si, gry-brn, Wet, Rec. = 1.0 ft					22.5		10.0	90.0	29	5
10		A-7-6, Cl, gry-brn, Moist, Rec. = 2.0 ft				4-4-5-7 (9)	30.3	3.8	14.9	81.3	54	25
		Visual Description: Cl, brn, Moist, Rec. = 2.0 ft, Similar material as 8-10 ft.				7-9-5-7 (14)	33.1					
15		A-4, SaGrSi, brn, Moist, Rec. = 1.1 ft				2-12-25-20 (37)	13.9	26.5	20.1	53.4	22	6
		15.5 ft - 20.5 ft, Light gray, Dolomite, Moderately hard, Unweathered, Fair rock, BXDC, Close to moderately closely spaced jointing. RMR = 57	1 (10)	100 (84)	4						Top of Bedrock @ 15.5 ft	

Hole stopped @ 20.5 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.
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

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-131  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW  
 Date Started: 6/26/12 Date Finished: 6/26/12  
 VTSPG NAD83: N 735035.81 ft E 1463260.58 ft  
 Station: 44+67 Offset: 37.00  
 Ground Elevation: 318.12 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 in 1.5 in  
 Hammer Wt: N.A. 140 lb.  
 Hammer Fall: N.A. 30 in.  
 Hammer/Rod Type: Auto/AWJ  
 Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
06/26/12	5.0	While Drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		Topsoil, 0.0 ft - 0.3 ft	3-4-5-5 (9)	4.8	54.0	32.4	13.6		
		A-1-b, SaGr, brn, Moist, Rec. = 1.3 ft							
		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft	6-6-8-7 (14)	6.9	44.2	39.9	15.9		
		A-2-4, SiSa, brn, Moist, Rec. = 0.3 ft	2-3-2-2 (5)	11.9	17.9	61.7	20.4		
		A-4, SaSi, brn, Moist, Rec. = 0.5 ft	1-2-2-3 (4)	19.4	7.4	45.2	47.4	22	5
		A-6, SaSiCl, brn, Moist, Rec. = 1.7 ft	2-2-4-7 (6)	24.8	7.0	20.6	72.4	38	18
10		A-6, SaSiCl, brn, Moist, Rec. = 0.5 ft	4-R@6.0"	22.3	15.6	22.0	62.4	35	17
Hole stopped @ 10.9 ft CNPf-TLOB									
15									
20									
25									

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-134

Page No.: 1 of 1

Pin No.: 12D046

Checked By: TDE

Boring Crew: PORTER, WHITLOCK  
Date Started: 7/05/12 Date Finished: 7/06/12  
VTSPG NAD83: N 732299.80 ft E 1462921.85 ft  
Station: 17+00 Offset: 50.00  
Ground Elevation: 348.4 ft

Casing Type: H.S.A. Sampler: SS  
I.D.: 3.25 in 1.5 in  
Hammer Wt: N.A. 140 lb.  
Hammer Fall: N.A. 30 in.  
Hammer/Rod Type: Auto/AWJ  
Rig: CME 45C TRACK CE = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
		No water table to depth.

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 %	LL %	PI %
		A-6, SaSiCl, brn, Moist, Rec. = 1.4 ft				2-2-4-5 (6)	19.9	3.6	25.3	71.1	40	17
		A-7-6, Cl, brn, Moist, Rec. = 1.2 ft				3-4-7-8 (11)	27.8	0.9	5.2	93.9	46	22
5		A-7-5, Cl, brn, Moist, Rec. = 1.8 ft, Material from Triaxial "A" sample.					31.1		1.8	98.2	54	23
		A-7-6, Cl, brn, Moist, Rec. = 1.8 ft				4-7-14-11 (21)	25.4	7.0	16.2	76.8	46	22
		A-6, SaSiCl, brn, Moist, Rec. = 0.3 ft				10-R@0.0"	25.0	17.4	23.8	58.8	28	12
10		8.5 ft - 13.5 ft, Light gray, Dolomite, Moderately hard, Mostly unweathered, Fair rock, BXMDC, Closely spaced jointing. Some slight weathering (yellow discoloration at 10.5') RMR = 48	1 (10)	100 (50)	10 5 10 5 5			Top of Bedrock @ 8.5 ft				
15		Hole stopped @ 13.5 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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: C-101  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 731452.48 ft E 1462615.23 ft  
 Station: 8+00 Offset: -4.00  
 Ground Elevation: 326.9 ft

Casing: AUGER Sampler: AUGER  
 Type: I.D.:  
 Hammer Wt: N.A. N.A.  
 Hammer Fall: N.A. N.A.  
 Hammer/Rod Type:  
 Rig: CME 45C TRACK CE =

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt Pavement					
		A-1-b, SaGr, brn, Moist		3.3	43.3	37.8	18.9
		A-1-b, SiGrSa, brn, Moist		6.0	32.4	42.7	24.9
5	Hole stopped @ 5.0 ft						
10							
15							
20							
25							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: C-102  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 732074.17 ft E 1462804.49 ft  
 Station: 14+50 Offset: 0.00  
 Ground Elevation: 339.14 ft

Casing AUGER Sampler AUGER  
 Type: AUGER  
 I.D.:  
 Hammer Wt: N.A.  
 Hammer Fall: N.A.  
 Hammer/Rod Type:  
 Rig: CME 45C TRACK CE =

Groundwater Observations		
Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt Pavement					
		A-1-b, SaGr, brn, Moist		3.6	48.9	35.5	15.6
		A-2-4, SiSa, brn, Moist		10.7	11.9	59.8	28.3
5	Hole stopped @ 5.0 ft						
10							
15							
20							
25							

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12

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.  
 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  
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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: C-103  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
Date Started: 7/24/12 Date Finished: 7/24/12  
VTSPG NAD83: N 733371.92 ft E 1463171.20 ft  
Station: 28+00 Offset: -5.00  
Ground Elevation: 342.14 ft

Casing AUGER Sampler AUGER  
Type: AUGER I.D.: \_\_\_\_\_  
Hammer Wt: N.A. N.A.  
Hammer Fall: N.A. N.A.  
Hammer/Rod Type: \_\_\_\_\_  
Rig: CME 45C TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note:, Asphalt Pavement					
		A-1-a, SaGr, brn, Moist		1.7	58.9	29.4	11.7
		A-2-4, GrSiSa, brn, Moist		8.0	20.8	44.3	34.9
5		Hole stopped @ 5.0 ft					
10							
15							
20							
25							

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.
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).CPJ VERMONT AOT.GDT 9/11/12



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 MATERIALS & RESEARCH SECTION  
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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: C-104  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 734268.35 ft E 1463229.09 ft  
 Station: 37+00 Offset: -4.00  
 Ground Elevation: 327.82 ft

Casing AUGER Sampler AUGER  
 Type: AUGER AUGER  
 I.D.: \_\_\_\_\_  
 Hammer Wt: N.A. N.A.  
 Hammer Fall: N.A. N.A.  
 Hammer/Rod Type: \_\_\_\_\_  
 Rig: CME 45C TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt Pavement					
		A-1-a, SaGr, brn, Moist		1.3	65.4	25.3	9.3
		A-2-4, Sa, brn, Moist		6.6	6.2	76.7	17.1
5		Hole stopped @ 5.0 ft					
10							
15							
20							
25							

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.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: C-105  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: TDE

Boring Crew: PORTER, GARROW, SALISBURY  
 Date Started: 7/24/12 Date Finished: 7/24/12  
 VTSPG NAD83: N 735467.60 ft E 1463233.58 ft  
 Station: 49+00 Offset: 0.00  
 Ground Elevation: 311.95 ft

Casing AUGER Sampler AUGER  
 Type: AUGER AUGER  
 I.D.: \_\_\_\_\_  
 Hammer Wt: N.A. N.A.  
 Hammer Fall: N.A. N.A.  
 Hammer/Rod Type: \_\_\_\_\_  
 Rig: CME 45C TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Field Note: Asphalt Pavement					
		A-1-b, SaGr, brn, Moist		3.1	46.2	39.9	13.9
		A-2-4, Sa, brn, Moist		6.5	5.3	80.0	14.7
5		Hole stopped @ 5.0 ft					
10							
15							
20							
25							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 9/11/12



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-201

Page No.: 1 of 1

Pin No.: 12D046

Checked By: CAA

Boring Crew: GARROW, WHITLOCK  
Date Started: 11/05/12 Date Finished: 11/05/12  
VTSPG NAD83: N 731840.51 ft E 1462980.79 ft  
Station: D2+37.49 Offset: -40.98  
Ground Elevation: 324.1 ft

Casing Sampler  
Type: H.S.A. TUBE  
I.D.: 3.25 in 3 in  
Hammer Wt: N.A. N.A.  
Hammer Fall: N.A. N.A.  
Hammer/Rod Type:  
Rig: CME 55 TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes
11/15/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
2.5		SaSi Shelby Tube, brn, Moist, Rec. = 0.8 ft, 1.0 ft - 3.0 ft							
		ClSaSi Shelby Tube, brn, Moist, Rec. = 0.9 ft, 3.0 ft - 5.0 ft							
5.0		SaSiCl Shelby Tube, brn, Moist, Rec. = 1.1 ft, 5.0 ft - 7.0 ft							
7.5		A-7-6, Cl with angular stones, brn, Moist, Rec. = 1.3 ft, Material from Triaxial "A" sample. Sample "B" was similar material.		24.5	8.0	9.2	82.8	48	22
10.0		Cl Shelby Tube, brn, Moist, Rec. = 2.0 ft, 9.0 ft - 11.0 ft							
12.5		Hole stopped @ 11.0 ft NLTD							

Notes:  
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).CPJ VERMONT AOT.GDT 1/29/13



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-202  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: CAA

Boring Crew: GARROW, JUDKINS  
 Date Started: 11/06/12 Date Finished: 11/06/12  
 VTSPG NAD83: N 732080.72 ft E 1462856.06 ft  
 Station: 14+66.84 Offset: 48.07  
 Ground Elevation: 336.0 ft

Casing: H.S.A. Sampler: SS  
 I.D.: 3.25 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 CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/06/12	4.0	Poss. water table.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, SiGrSa, Dk/brn, Moist, Rec. = 0.7 ft	WH-2-3-2 (5)	13.8	34.2	44.6	21.2		
2.5		A-6, SaSiCl, Dk/brn, Moist, Rec. = 1.4 ft	WH-2-2-3 (4)	28.6	11.0	29.6	59.4	40	16
5.0		A-6, SaSiCl, brn, MTW, Rec. = 1.5 ft	3-3-3-3 (6)	26.7	9.4	29.7	60.9	35	15
		Visual Description:., SaSiCl with some Broken Rock, brn, MTW, Rec. = 0.1 ft, Material similar to 4-6 ft., Insufficient sample for testing. Hole stopped @ 6.1 ft CNPf-TLOB	(R)	23.4					
7.5									

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 1/29/13



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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-203

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Pin No.: 12D046

Checked By: CAA

Boring Crew: GARROW, JUDKINS  
 Date Started: 11/06/12 Date Finished: 11/06/12  
 VTSPG NAD83: N 733852.14 ft E 1463263.58 ft  
 Station: 32+84.88 Offset: 41.83  
 Ground Elevation: 331.8 ft

Casing Sampler  
 Type: H.S.A. TUBE  
 I.D.: 3.25 in 3 in  
 Hammer Wt: N.A. N.A.  
 Hammer Fall: N.A. N.A.  
 Hammer/Rod Type:  
 Rig: CME 55 TRACK CE =

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
2.5									
5.0		Sa Shelby Tube, brn, Moist, Rec. = 1.0 ft, 4.0 ft - 5.7 ft							
7.5		A-6, GrSaCl, Dk/brn, Moist, Rec. = 1.3 ft, Possible Fill material.		21.4	31.4	32.3	36.3	30	13
		A-6, SaSiCl with angular stones, Dk/brn, Moist		28.3	17.0	25.1	57.9	39	18
		A-6, SiCl with angular stones, gry, Moist, Rec. = 1.3 ft, Material from Triaxial "A" sample. Sample "B" was similar material.		27.6	20.7	22.7	56.6	34	15
10.0		Hole stopped @ 10.0 ft							
12.5		Remarks: 1. Moved Hole 8 feet from B-127, because of underground utilities.							

Notes:  
 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 1/29/13



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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-206

Page No.: 1 of 1

Pin No.: 12D046

Checked By: CAA

Boring Crew: GARROW, JUDKINS, WHITLOCK  
Date Started: 11/07/12 Date Finished: 11/07/12  
VTSPG NAD83: N 731718.63 ft E 1462631.78 ft  
Station: 10+59.98 Offset: -66.08  
Ground Elevation: 338.1 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 55 TRACK CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/07/12		No water to depth

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft, Broken Rock was within sample.				WH-5-8-8 (13)	11.3	55.1	29.6	15.3
2.5		A-2-4, SaSiGr, brn, Moist, Rec. = 1.0 ft, Broken Rock was within sample.				9-8-7-R (15)	10.0	38.3	30.0	31.7
5.0		Field Note:, Possible top of bedrock. Not Competent								
5.0		5.0 ft - 10.0 ft, Light gray, Dolomite, with close to moderately closely spaced jointing. Karst horizons along some bedding surfaces. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 48	1 (10)	100 (34)	3	Top of Bedrock @ 5.0 ft				
7.5					3					
10.0					3					
10.0		Hole stopped @ 10.0 ft			3					

Notes:  
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2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 1/29/13



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AGENCY OF TRANSPORTATION  
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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-208  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: CAA

Boring Crew: GARROW, JUDKINS, WHITLOCK  
Date Started: 11/07/12 Date Finished: 11/08/12  
VTSPG NAD83: N 731747.29 ft E 1462652.67 ft  
Station: 10+93.11 Offset: -54.23  
Ground Elevation: 339.5 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 55 TRACK CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/08/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft				WH-WH-2-6 (2)	8.3	28.3	52.2	19.5		
2.5		A-6, GrSaCl, brn, Moist, Rec. = 1.0 ft				4-5-6-6 (11)	18.8	28.4	32.1	39.5	33	13
5.0		A-4, SaSiGr, rust-brn, Moist, Rec. = 1.2 ft				4-10-6-10 (16)	23.9	37.4	26.9	35.7		
		Visual Description:, SiGr, tan, Moist, Rec. = 0.2 ft, Insufficient sample for testing.				5-R						
7.5		Field Note:, NXDC, Possible bedrock. Not Competent										
10.0		8.9 ft - 13.9 ft, Light gray, Dolomite, with close to closely moderately spaced jointing. Karst horizons along some bedding surfaces. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 48	1 (10)	90 (40)	4			Top of Bedrock			8.9 ft	
12.5					4							
					4							
					4							
					4							
					5							
		Hole stopped @ 13.9 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.  
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.

BORING LOG 2 COLCHESTER HES NH 5600(14) GPJ VERMONT AOT.GDT 1/29/13





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AGENCY OF TRANSPORTATION  
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BORING LOG

COLCHESTER  
HES NH 5600(14)  
US2 & US7

Boring No.: B-210  
Page No.: 1 of 1  
Pin No.: 12D046  
Checked By: CAA

Boring Crew: GARROW, JUDKINS  
Date Started: 11/14/12 Date Finished: 11/14/12  
VTSPG NAD83: N 731816.71 ft E 1462670.15 ft  
Station: 11+69.93 Offset: -57.25  
Ground Elevation: 341.3 ft

Casing: WB Sampler: SS  
Type: WB 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 CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/14/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0.0 - 2.5		A-4, GrSaSi, Dk/brn, Moist, Rec. = 0.8 ft				WH-2-2-3 (4)	24.3	23.5	35.5	41.0	30	4
2.5 - 5.0		Visual Description: SiSa with one large stone, brn-rust, Moist, Rec. = 0.2 ft, Insufficient sample for testing.				3-2-3-6 (5)						
5.0 - 10.0		A-2-4, SaSiGr, brn, Moist, Rec. = 0.6 ft, Two large stones 27f total sample weight.  Field Note: Possible top of bedrock, Not Competent. 5.0 ft - 10.0 ft, Light gray, Dolomite, with close to moderately closely spaced jointing. Karst horizons along some bedding surfaces. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 53	1 (10)	94 (52)	4							
10.0 - 12.5		Hole stopped @ 10.0 ft										

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
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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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 1/29/13





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BORING LOG

COLCHESTER  
 HES NH 5600(14)  
 US2 & US7

Boring No.: B-213  
 Page No.: 1 of 1  
 Pin No.: 12D046  
 Checked By: CAA

Boring Crew: GARROW, JUDKINS  
 Date Started: 11/15/12 Date Finished: 11/15/12  
 VTSPG NAD83: N 731898.84 ft E 1462676.36 ft  
 Station: 12+45.42 Offset: -74.41  
 Ground Elevation: 342.2 ft

Casing: 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 55 TRACK CE = 1.46

Groundwater Observations

Date	Depth (ft)	Notes
11/15/12		No water to depth.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-4, SiSa, Dk/brn, Moist, Rec. = 1.0 ft				WH-3-R	22.7	16.0	44.3	39.7
		Field Note:, NXDC, Possible top of bedrock, Not Competent.								
2.5		1.8 ft - 6.8 ft, Light gray, Dolomite, with close to moderately closely spaced jointing. Karst horizons along some bedding surfaces. Moderately hard, Unweathered, Fair rock, NXMDC, RMR = 58	1 (10)	98 (54)	3	Top of Bedrock @ 1.8 ft				
5.0					4					
					5					
					5					
7.5		Hole stopped @ 6.8 ft								
10.0										
12.5										

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.  
 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.

BORING LOG 2 COLCHESTER HES NH 5600(14).GPJ VERMONT AOT.GDT 1/29/13