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

BORING LOG

ROCHESTER
ER-STP 0162(19)
VT-73 BR-13

Boring No.: B-101
Page No.: 1 of 1
Pin No.: 11C334
Checked By: CEE

Boring Crew: SALISBURY, GARROW
Date Started: 3/29/12 Date Finished: 3/30/12
VTSPG NAD83: N 492752.70 ft E 1528645.50 ft
Station: 104+03 Offset: 20.50
Ground Elevation: 1500.2 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C TRACK	CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
		NWTD

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. = 1.3 ft				2-2-7-7 (9)	7.9	48.0	35.9	16.1
		A-1-a, SaGr, brn, Moist, Rec. = 1.8 ft, NXDC				8-28-35-34 (63)	6.6	51.6	33.6	14.8
5		A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft				9-25-28-26 (53)	9.0	46.9	36.3	16.8
		A-1-a, SaGr, brn, Moist, Rec. = 1.4 ft				15-25-31-26 (56)	9.1	52.1	32.4	15.5
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, NXDC				10-10-12-10 (22)	9.2	53.8	31.6	14.6
10		A-1-a, SaGr, brn, Moist, Rec. = 1.2 ft, NXDC				6-10-14-16 (24)	7.5	55.6	30.3	14.1
		A-1-a, SaGr, brn, Moist, Rec. = 1.0 ft, Lost water return at 14.0 ft. Changed bit.				10-7-6-13 (13)	9.3	67.9	24.1	8.0
		Field Note:, NXDC, Cobbles								
15		A-1-a, SaGr, brn, Moist, Rec. = 0.6 ft, The Gravel = 3 broken stones				5-6-4-R@3.5"	10.7	62.1	31.4	6.5
		Field Note:, NXDC, Cobbles								
APPROXIMATE TOP OF SUBFOOTING EL 1480.5		20.0 ft – 25.0 ft, Light gray, Quartz-muscovite Schist, with quartzite. Hard, Unweathered, Good rock, NXMDC, RMR = 76	1 (30)	98 (98)	3 3 3 3 4	Top of Bedrock @ 20.0 ft				
20		25.0 ft – 30.0 ft, Light gray, Quartz-muscovite Schist, with quartzite. Hard, Good rock, NXMDC, Slightly weathered along joint surface at 27.25 feet. Remainder of run is unweathered. RMR = 76	2 (30)	100 (100)	3 3 3 3 4					
25		Hole stopped @ 30.0 ft								
30										
35										

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 ROCHESTER ER-STP 0162(19).GPJ VERMONT AOT.GDT 6/1/12

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BORING LOG

ROCHESTER
ER-STP 0162(19)
VT-73 BR-13

Boring No.: B-102
Page No.: 1 of 1
Pin No.: 11C334
Checked By: CEE

Boring Crew: SALISBURY, GARROW
Date Started: 4/03/12 Date Finished: 4/03/12
VTSPG NAD83: N 492834.70 ft E 1528676.60 ft
Station: 104+75 Offset: -29.50
Ground Elevation: 1491.0 ft

	Casing	Sampler
Type:	WB	SS
I.D.:	4 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C TRACK	CE = 1.34

Groundwater Observations		
Date	Depth (ft)	Notes
		None Taken

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 %
		Field Note:, NXDC, Cobbles								
5		A-1-a, SaGr, brn, Moist, Rec. = 0.4 ft				8-R@2.5"	8.9	53.6	33.5	12.9
		Field Note:, NXDC, Boulders & Cobbles								
10		Field Note:, Drilling break								
		Field Note:, NXDC, Boulders & Cobbles								
		Field Note:, Drilling break								
		Field Note:, NXDC, Boulders & Cobbles, Advanced casing to 15.0. feet.								
		Field Note:, NXDC								
APPROXIMATE TOP OF SUBFOOTING EL 1476.1		15.0 ft – 20.0 ft, Light gray, Quartz-muscovite Schist, with quartzite. Hard, Unweathered, Good rock, NXMDC, Evenly scattered small magnetite throughout run. RMR = 71	1 (50)	98 (94)	5 2 2 2 2	Top of Bedrock @ 15.0 ft				
20		20.0 ft – 25.0 ft, Light gray, Quartz-muscovite Schist, with quartzite. Hard, Unweathered, Good rock, NXMDC, Evenly scattered small magnetite throughout run. RMR = 64	2 (50)	100 (64)	2 2 2 2 2					
25		Hole stopped @ 25.0 ft								
30										
35										

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 ROCHESTER ER-STP 0162(19).GPJ VERMONT AOT.GDT 6/1/12

Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	ROCHESTER
PROJECT NUMBER:	ER STP 0162(19)
FILE NAME: z11c334borlogs.dgn	PLOT DATE: 8/19/2013
PROJECT LEADER: S.E. BURBANK	DRAWN BY: E.A. FIALA
DESIGNED BY: VTRANS	CHECKED BY: S.E. BURBANK
BR 13 BORING LOGS (1OF 4)	SHEET 34 OF 238