VAOT Metric

GEODESIGN INCORPORATED

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-5A
Page No.: 2 of 2
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Jason Gaudette
Date Started: April 30, 2002 Date Finished: April 30, 2002
N. Coordinate: 338.02 m E. Coordinate: 4.39 m
Ground Surface Elevation (meters): 362.50
Station: 1109 Offset: 4.39 m RT

	Casing:	Sampler:	Groundwater Observations:			
Type:	H.S.A.	SS	Date and Time	Depth (m)	Elevation (m)	Notes
I.D./O.D.:	11 cm	5 cm				
Hammer Wt.:	NA	63.5 kg	4/30/02 8:25 AM	1.37	361.13	Wet soil
Hammer Fall:	NA	76 cm				
Rig Type:	Acker Truck Mounted					
Other:						

Depth (m)	Casing Blows/0.3m	Sample Information: Number	Type	Penetration (cm)	Recovery (cm)	Depth (m)	Blows / 0.15 m Interval: 0-0.15	0.15-0.30	0.30-0.45	0.45-0.60	Coring Time (min./0.3m)	PID Result	Sample Description: Classification System: Burmister	Symbol	Strata Description: Elevation & Depth (meters)
													trace fine Gravel (possible glacial till).		
8															
9															
10															
11															
12															
13															
14															

Remarks: (4.63 m): Observed difficult HSA penetration through possible small boulder to 5.06 m.
(6.16 m): HSA refusal on possible boulder. Attempted rock core - Observed approximately 2.5 cm of penetration without water return. Stopped coring and retrieved core barrel. Diamond coring bit sheared away from barrel and lost down borehole.
(6.19 m):Borehole abandoned.

Notes: 1) Soil Samples screened in the field using a thermal Environmental Systems Model 580S Photoionization Detector. The meter was calibrated relative to a benzene-in-air standard. ND = None Detected, - = Sample Not Screened
2) Stratification Lines Represent Approximate Boundary Between Material Types, Transitions May Be Gradual.
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. AC = After Coring Rock
4) Sample Type Coding: A = Auger; C = Core; PS = Piston Sampler; SS = Split Barrel (Split Spoon); ST = Shelby Tube; V = Vane
5) Proportions Used: Trace = 1-10%, Little = 10-20%, Some = 20-35%, And = 35-50%

Boring No.: GB-5A

OFFICES LOG 750-03.6M GPJ GEODSGN.GDT 1/14/03

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-5B
Page No.: 1 of 2
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Jason Gaudette
Date Started: April 30, 2002 Date Finished: May 1, 2002
N. Coordinate: 337.41 m E. Coordinate: 4.39 m
Ground Surface Elevation (meters): 362.00
Station: 1107 Offset: 4.39 m RT

	Casing:	Sampler:	Groundwater Observations:			
Type:	H.S.A.	SS	Date and Time	Depth (m)	Elevation (m)	Notes
I.D./O.D.:	11 cm	5 cm				
Hammer Wt.:	NA	63.5 kg	5/1/02 12:00 PM			Not Obser
Hammer Fall:	NA	76 cm				
Rig Type:	Acker Truck Mounted					
Other:						

Depth (m)	Casing Blows/0.3m	Sample Information: Number	Type	Penetration (cm)	Recovery (cm)	Depth (m)	Blows / 0.15 m Interval: 0-0.15	0.15-0.30	0.30-0.45	0.45-0.60	Coring Time (min./0.3m)	PID Result	Sample Description: Classification System: Burmister	Symbol	Strata Description: Elevation & Depth (meters)
						0.00							(See Boring Log B-5A for soil descriptions)		SAND and GRAVEL FILL (with cobbles)
1															358.04
2															3.96 Possible GLACIAL TILL
3															
4															356.88
5		C1	C	30	25	5.12						7.5	(C1) Recovered Top 10.1 cm: banded dark gray cobble. Bottom 15.2 cm: weathered schistose boulder.		5.12 COBBLE
															356.57
6															5.43 GLACIAL TILL
7															

BOT. OF FTG. ELEV. 357.000

Remarks: (0 m): Groundsurface elevation is estimated from VAOT Main Line Profile based on locations taped from existing features and plotted by GeoDesign. Elevations and locations should be considered accurate only to the degree implied by this method used
(3.96 m): Observed increased drilling resistance through denser stratum. Possible strata change to glacial till.
(5.12 m): 10.2 cm i.d. flush joint casing installed prior to coring C1. Observed brownish-red fine sand from wash cuttings during core run C1. Recovered cobble and possible fractured boulder.
Used 7.30 cm o.d. roller bit to further advance hole.
(5.43-6.92 m): Observed fine to coarse sand from wash cuttings, with alternating gray to orange-brown color.

Notes: 1) Soil Samples screened in the field using a thermal Environmental Systems Model 580S Photoionization Detector. The meter was calibrated relative to a benzene-in-air standard. ND = None Detected, - = Sample Not Screened
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Boring No.: GB-5B

OFFICES LOG 750-03.6M GPJ GEODSGN.GDT 1/14/03

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-5B
Page No.: 2 of 2
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Jason Gaudette
Date Started: April 30, 2002 Date Finished: May 1, 2002
N. Coordinate: 337.41 m E. Coordinate: 4.39 m
Ground Surface Elevation (meters): 362.00
Station: 1107 Offset: 4.39 m RT

	Casing:	Sampler:	Groundwater Observations:			
Type:	H.S.A.	SS	Date and Time	Depth (m)	Elevation (m)	Notes
I.D./O.D.:	11 cm	5 cm				
Hammer Wt.:	NA	63.5 kg	5/1/02 12:00 PM			Not Obser
Hammer Fall:	NA	76 cm				
Rig Type:	Acker Truck Mounted					
Other:						

Depth (m)	Casing Blows/0.3m	Sample Information: Number	Type	Penetration (cm)	Recovery (cm)	Depth (m)	Blows / 0.15 m Interval: 0-0.15	0.15-0.30	0.30-0.45	0.45-0.60	Coring Time (min./0.3m)	PID Result	Sample Description: Classification System: Burmister	Symbol	Strata Description: Elevation & Depth (meters)
															GLACIAL TILL (Continued)
															354.29
															7.71 Bottom of Borehole at 7.71 m
8															
9															
10															
11															
12															
13															
14															

Remarks: (7.71 m): Very hard roller bit drilling resistance through possible boulder. 10.2 cm i.d. flush joint removed. Using 10.8 cm o.d. SSA to expand borehole diameter to allow advancement of flush joint casing to top of possible boulder
prior to coring. Lost carbide teeth from SSA down hole. Borehole abandoned.

Notes: 1) Soil Samples screened in the field using a thermal Environmental Systems Model 580S Photoionization Detector. The meter was calibrated relative to a benzene-in-air standard. ND = None Detected, - = Sample Not Screened
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Boring No.: GB-5B

OFFICES LOG 750-03.6M GPJ GEODSGN.GDT 1/14/03

PROJECT NAME: READSBORO
PROJECT NUMBER: BRF 0105 (3)

FILE NAME: 89J088/STR/s89J088bor.dgn
PROJECT LEADER: J. LACROIX
DESIGNED BY: W. PELLETIER
BORING LOG SHEET 4

PLOT DATE: 07-MAR-2012
DRAWN BY: M.EVANS-MONGEON
CHECKED BY: W. PELLETIER
SHEET 32 OF 90