GEODESIGN INCORPORATED

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-7
Page No.: 2 of 2
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Andrew Elms
Date Started: June 3, 2002 — Date Finished: June 4, 2002
N. Coordinate: 337.11 m — E. Coordinate: -2.99 m
Ground Surface Elevation (meters): 382.71
Station: 1106 — Offset: 2.99 m LT

	Casing	Sampler
Type:	FJ	SS
I.D./O.D.:	10 cm	5 cm
Hammer Wt.:	136.1 kg	63.5 kg
Hammer Fall:	76 cm	76 cm
Rig Type:	Acker Truck Mounted	
Other:		

Groundwater Observations			
Date and Time	Depth (m)	Elevation (m)	Notes
6/3/02 10:10 AM	4.27	358.44	Moist
6/3/02 10:52 AM	6.10	356.62	Wet Soil

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															GLACIAL TILL. *(Continued)*
11															
11															
10	11														
11	10														
11	11														
11	12	S-10	SS	15	15	10.67	50	-	-	-			(S10): Very dense, olive, fine to coarse SAND, trace of Silt, trace of fine Gravel, dry.		
11	9														
11	11														
12	18														
		S-11	SS	10	0	12.19	102/4	-	-	-	19		(S11): No Recovery		
		C-1	C	109	33	12.28					3		(C1): Top 0.3 meters: White/pinkish, quartzite boulder. Bottom 0.79 meters: No recovery.		
13											3				
		S-12	SS	8	0	13.38	50/3	-	-	-			(S12): No Recovery.		
		C-2	C	43	0	13.44							(C2): No recovery.		
14		C-3	C	152	0	13.87							(C3): No recovery.		
15															
16															
17		C-4	C	30	0	16.92							(C4): No recovery.		345.49
18															17.22 Bottom of Borehole at 17.22 m

Remarks:
(4.57-11.58m): Casing Blows/ft - recorded # of blows required to drive casing into open hole.
(4.88 - 5.79m): Observed hard resistance during SSA drilling due to probable gravel and cobbles.
(12.35m): SS sampler refusal on probable boulder.
(13.38m): Core run C-1 stopped. Attempted SS sample. Refusal on probable boulder. Core barrel reinstalled in borehole to complete 152cm run.
(13.44-17.22m): Coring time averaged 2-3 min./ft.
(17.22m): Stopped coring and retrieved Diamond coring bits sheared away from barrel and lost down borehole. Borehole terminated.

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-7

OFFICES LOG 750-03.6M.GPJ GEODSGN.GDT 11/4/03

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-8
Page No.: 1 of 1
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Andrew Elms
Date Started: June 4, 2002 — Date Finished: June 4, 2002
N. Coordinate: 337.11 m — E. Coordinate: -2.99 m
Ground Surface Elevation (meters): 381.01
Station: 1065 — Offset: 2.99 m LT

	Casing	Sampler
Type:		
I.D./O.D.:	cm	cm
Hammer Wt.:		
Hammer Fall:		
Rig Type:	Acker Truck Mounted	
Other:		

Groundwater Observations			
Date and Time	Depth (m)	Elevation (m)	Notes
6/4/02 12:00 PM	4.57	356.43	Wet soil

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							SSA probe- no sampling. (Strata description based on auger cuttings and drilling resistance.)		GRAVEL FILL.
1															
2															
3															
4															357.35 3.66 Possible GLACIAL TILL.
5															
6															
7															353.51 7.50 Bottom of Borehole at 7.50 m
8															
9															

BOT. OF FTG. ELEV. 357.000

Remarks:
(0m): 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.
(3.66m): Observed slight increase in drilling resistance through denser stratum. Possible strata change to Glacial Till.
(7.50m): SSA refusal on possible boulder or probable bedrock.

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-8

OFFICES LOG 750-03.6M.GPJ GEODSGN.GDT 11/4/03

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BORING LOG

Project Name

Readsboro BRF 0105 (3)
Readsboro, VT

Boring No.: GB-9
Page No.: 1 of 1
File No.: 750-03.6m
Checked By: RSA

Boring Company: M & W Soils Engineering
Foreman: Jim Ferguson
GeoDesign Rep.: Andrew Elms
Date Started: June 5, 2002 — Date Finished: June 5, 2002
N. Coordinate: 336.80 m — E. Coordinate: -2.99 m
Ground Surface Elevation (meters): 382.71
Station: 1105 — Offset: 2.99 m LT

	Casing	Sampler
Type:		
I.D./O.D.:	cm	cm
Hammer Wt.:		
Hammer Fall:		
Rig Type:	Acker Truck Mounted	
Other:		

Groundwater Observations			
Date and Time	Depth (m)	Elevation (m)	Notes
6/5/02 10:00 AM	5.79	356.92	Dry

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							SSA - no probe. (Strata description based on auger cuttings and drilling resistance).		GRAVEL FILL (with cobbles and boulders)
1															
2															
3															
4															
5															357.53 5.18 BOULDERS.
6															356.92 5.79 Bottom of Borehole at 5.79 m
7															
8															
9															

BOT. OF FTG. ELEV. 357.000

Remarks:
(0m): 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.
(3.05-3.20m): Observed harder drilling resistance through possible cobbles.
(3.66-3.81m): Similar to (3.05-3.20m)
(4.27-4.72m): Similar to (3.05-3.20m)
(5.79m): SSA refusal on probable boulder.

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.
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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-9

OFFICES LOG 750-03.6M.GPJ GEODSGN.GDT 11/4/03

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 6

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