SOIL BORING LOGS

GEODESIGN INCORPORATED
P.O. Box 699, Windsor, VT 05089, Tel: (802) 674-2033
1233 Shelburne Road, Suite E-1, South Burlington, VT 05403, Tel: (802) 652-5140

BORING LOG

Project Name: Shelburne-South Burlington NH EGC 019-4(19)

Boring No.: B-214
Page No.: 1 of 2
File No.: 750-03.8
Checked By: RSA

Boring Company: M&W Soils Engineering
Foreman: Mike Hitchcock
GeoDesign Rep.: Rob Achilles
Date Started: September 26, 2002 Date Finished: September 26, 2002
N. Coordinate: 39120.0 ft E. Coordinate: 86.0 ft
Ground Surface Elevation (feet): 149.0
Station: 39120 Offset: 86.0 ft R

	Casing:	Sampler:
Type:	H.S.A.	SS
I.D./O.D.:	3.25 in.	2.0 in.
Hammer Wt.:	NA	140 lbs
Hammer Fall:	NA	30 in.
Rig Type:	Mobile Drill B-47	
Other:	Track mounted	

Groundwater Observations

Date and Time	Depth (ft)	Elevation (ft)	Notes
∇ 9/26/02 4:20 PM	3.8	145.2	rmrk (3.8')

Sample Information

Depth (ft)	Casing Blows/ft	Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	PID Result
		1	SS	24.0	18.0	0.0	2/24*					-
		2	SS	24.0	15.0	2.0	1/24*					-
5		3	SS	24.0	12.0	4.0	6	10	10	6		-
		4	SS	24.0	12.0	6.0	14	13	14	20		-
		5	SS	24.0	12.0	8.0	20	33	58	53/4"		-
10												
15		6	SS	11.0	11.0	15.0	26	76*				-
20		7	SS	6.0	6.0	20.0	76/6"					-
25						25.0						-
30												

Sample Description (Classification System: Burmister) / Strata Description (Elevation & Depth (feet))

S-1) Very loose, dark brown SILT, little fine to medium Sand with organics, moist. — SILT and SAND with Organics
S-2) Very loose, brown to gray SILT and fine SAND with organics, moist. — 145.0 ∇
S-3) Very Stiff, brown-gray SILT and CLAY, trace fine to medium SAND, wet. — 4.0 CLAY and SILT
S-4) Top 6" - Similar to S-3. Bottom 6" - Gray SILT, little fine Sand, moist. — 142.0 7.0 SILT
S-5) Very dense, gray SILT, moist.
S-6) Top 9" - Similar to S-5. Bottom 2" - Red-gray SILT and fine to medium SAND, moist. Piece of red fine Gravel at 15.10 ft. — 133.0 16.0 GLACIAL TILL
S-7) Very dense, gray SILT and fine to coarse SAND, trace fine Gravel, Less moisture than S-6.
No sampling, auger to 30'. — 122.0 27.0 CLAY

Remarks:
(0'): Groundsurface elevation based on hand level survey from proposed VAOT staked boring location. Location is estimated from site plan based on locations taped from proposed VAOT staked boring location and plotted by GeoDesign.
(0'): Stream is located approximately 20' north of boring location and approximately 3' below groundsurface elevation at boring.
(3.8'): Groundwater depth based on water inside borehole during drilling.
(16-19'): Observed higher drilling resistance through possible cobbles and boulders.
(21-27'): Depth of strata change based on observed higher drilling resistance.

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.: B-214

OFFICES LOG WL 750-03.8.GPJ GEODSGN.GDT 1/22/03

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Sample Information

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		8	SS	18.0	14.0	30.0	13	20	67			-
35												
40												
45												
50												
55												
60												

Sample Description (Classification System: Burmister) / Strata Description (Elevation & Depth (feet))

S-8) Very dense, layers of gray and brown mottled CLAY, trace fine Sand, Less moisture than S-7. — CLAY *(Continued)*
117.5
31.5 Bottom of Borehole at 31.5 ft

Remarks:
(27'): Depth of strata change based on observed normal drilling resistance.

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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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
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Boring No.: B-214

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SHELBURNE – SOUTH BURLINGTON

SURVEYED BY V.S.C. INC. DATE
DRAWN BY E.A.A. INC. DATE
TRACED BY E.A.A. INC. DATE

PROJECT NH-EGC-019-4(28)
SOIL BORING DRAWING NO. 5
SHEET NO. 229 OF 283

DATUM
VERTICAL NGVD 1929
HORIZONTAL NAD 1927

4/4/03