

SOIL BORING LOGS

G E O D E S I O N I N C O R P O R A T E D		BORING LOG		Boring No.: B-216	
P.O. Box 699 Windsor, VT 05069 Tel: (802) 674-2033		1233 Shelburne Road, Suite E-1 South Burlington, VT 05403 Tel: (802) 652-5140		Project Name	
		Shelburne-South Burlington NH EGC 019-4(19)		Page No.: 1 of 1	
				File No.: 750-03.8	
				Checked By: RSA	
Boring Company: M&W Soils Engineering		Casing: H.S.A.		Sampler: SS	
Foreman: Mike Hitchcock		Type: H.S.A.		SS	
GeoDesign Rep.: Aaron Humphrey		I.D./O.D.: 3.25 in.		2.0 in.	
Date Started: September 8, 2002		Date Finished: September 9, 2002		Groundwater Observations	
N. Coordinate: 39710.0 ft		E. Coordinate: 50.0 ft		Date and Time	
Station: 39710		Offset: 50.0 ft R		Depth (ft)	
				Elevation (ft)	
				Notes	
		Hammer Wt.: NA		140 lbs	
		Hammer Fall: NA		30 in.	
		Rig Type: Acker Soil Max		Truck mounted	
		Other: Truck mounted			

Depth (ft)	Casing Blows/ft	Sample Information								Sample Description	Strata Description			
		Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval					Coring Time (min./ft)	PID Result	
							0 - 6	6 - 12	12 - 18					18 - 24
1	1	SS	24.0	12.0	0.0	7	8	11	12	-	S-1) Medium dense, gray fine to coarse SAND, some fine Gravel, trace Root Fibers, dry.	SAND and GRAVEL (Fill)		
2	2	SS	24.0	15.0	2.0	10	11	11	11	-	S-2) Medium dense, brown-gray fine to coarse SAND and SILT, trace fine Gravel, dry.	2.0 SILT and SAND (Fill)		
5	3	SS	24.0	17.0	4.0	8	9	20	24	-	S-3) Similar to S-2.	5.0 SILT and SAND		
4	4	SS	24.0	16.0	6.0	26	24	31	38	-	S-4) Similar to S-2, except very dense.			
5	5	SS	24.0	17.0	8.0	16	22	20	24	-	S-5) Similar to S-4.			
10	6	SS	0.0	0.0	10.0	100/0*				-	S-6) Refusal, no sample recovery.			
7	7	SS	24.0	16.0	12.0	18	22	21	23	-	S-7) Dense, gray SILT and fine SAND, moist.			
15	8	SS	24.0	19.0	14.0	15	27	31	42	-	S-8) Similar to S-7.			
20	9	SS	24.0	18.0	19.0	22	28	26	31	-	S-9) Similar to S-7.			
25														
30														

(0): Boring performed at proposed VAOT staked boring location. Groundsurface elevation and station/offset based on VAOT survey data.
 (10'): SS sampler refusal on possible cobble or boulder. (10-11'): Observed higher drilling resistance through possible cobble or boulder.
 (22'): Depth of strata based on observed higher drilling resistance.
 (24'): Observed auger refusal on possible boulder or bedrock. Groundwater not encountered during drilling. Borehole was left open for observations until end of drilling on 09/11/02.

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%

G E O D E S I O N I N C O R P O R A T E D		BORING LOG		Boring No.: B-218	
P.O. Box 699 Windsor, VT 05069 Tel: (802) 674-2033		1233 Shelburne Road, Suite E-1 South Burlington, VT 05403 Tel: (802) 652-5140		Project Name	
		Shelburne-South Burlington NH EGC 019-4(19)		Page No.: 1 of 1	
				File No.: 750-03.8	
				Checked By: RSA	
Boring Company: M&W Soils Engineering		Casing: H.S.A.		Sampler: SS	
Foreman: Mike Hitchcock		Type: H.S.A.		SS	
GeoDesign Rep.: Aaron Humphrey		I.D./O.D.: 3.25 in.		2.0 in.	
Date Started: September 10, 2002		Date Finished: September 10, 2002		Groundwater Observations	
N. Coordinate: 39990.0 ft		E. Coordinate: 50.0 ft		Date and Time	
Station: 39900		Offset: 50.0 ft R		Depth (ft)	
				Elevation (ft)	
				Notes	
		Hammer Wt.: NA		140 lbs	
		Hammer Fall: NA		30 in.	
		Rig Type: Acker Soil Max		Truck mounted	
		Other: Truck mounted			

Depth (ft)	Casing Blows/ft	Sample Information								Sample Description	Strata Description			
		Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval					Coring Time (min./ft)	PID Result	
							0 - 6	6 - 12	12 - 18					18 - 24
1	1	SS	24.0	13.0	0.0	3	5	12	11	-	S-1) Medium dense, brown fine to coarse SAND, little fine Gravel, little Silt, dry.	SAND and GRAVEL (Fill)		
2	2	SS	24.0	14.0	2.0	11	10	9	9	-	S-2) Very stiff, brown SILT and CLAY, laminated, dry.	2.0 SILT and CLAY		
5	3	SS	24.0	12.0	4.0	11	13	27	19	-	S-3) Dense, brown fine to medium SAND, some Silt, moist.	4.0 SILT and SAND		
4	4	SS	24.0	16.0	6.0	17	22	26	34	-	S-4) Dense, brown fine SAND and SILT, moist.			
5	5	SS	24.0	22.0	8.0	21	28	37	40	-	S-5) Similar to S-4, except very dense.			
10	6	SS	24.0	14.0	10.0	11	15	14	16	-	S-6) Similar to S-4, expect medium dense.			
7	7	SS	2.0	0.0	12.0	100/2*				-	S-7) Refusal, no sample recovery.			
8	8	SS	24.0	18.0	13.0	12	24	33	31	-	S-8) Very dense, gray SILT and fine SAND, moist.			
15														
20														
25														
30														

(0): Boring performed at proposed VAOT staked boring location. Groundsurface elevation and station/offset based on VAOT survey data.
 (12'): SS sampler refusal on possible cobble or boulder. (12-13'): Observed higher drilling resistance through possible cobble or boulder.
 (19'): Depth of strata change based on observed higher drilling resistance.
 (19.5'): Observed auger refusal on possible boulder or bedrock. Groundwater not encountered during drilling. Borehole was left open for observations until end of drilling on 09/11/02.

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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DATUM
 VERTICAL NGVD 1929
 HORIZONTAL NAD 1927

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. 7
 SHEET NO. 231 OF 283