

B-3

PROJECT NAME AND LOCATION		GEODESIGN, INC. SOIL BORING LOG										
Lincoln BRO 1445 (25) Lincoln, Vermont		BORING NO.	B-3									
		PAGE NO.	1 OF 3									
		FILE NO.	750-03.1									
		REVIEWER	JEL									
BORING CO.	CASING	SAMPLER	GROUNDWATER READINGS									
M & W Soils Engineering	H.S.A.	S.S.	DATE/TIME	DEPTH	STAR TIME							
FOREMAN: Myron Domingue												
INSPECTOR: Robert Marshall	83/115 mm	LD/O.D. 35/51 mm	9/13/00 1645	4.27 m	5 Minutes							
DATE START: 9/13/00		HAMMER										
DATE END: 9/14/00		FALL										
GROUND EL.: 296.165 m		OTHER										
SAMPLE INFORMATION		SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM CHANGES	CORING (min/0.3m)					REMARKS			
DEPTH CASING BLOWNS	NO.			PEN./REC.	BLOWS PER 0.15 m	% M.C.	% GRAY.	% SAND		% FINES	I.O. LIM.	P.L. LIM.
	S-1	0.61 0.2	11 1	S-1 (0-0.61m): TOP 0.05m ASPHALT, BOT 0.15m Very loose brown fine to coarse SAND, some fine to coarse Gravel, little Silt (A-1-b)	0.05m ASPHALT							1.
			2 3		0.2m GRAVEL BASE							
	S-2	0.61 0.25	3 2	S-2 (0.61-1.22m): Very loose, brown fine to coarse SAND, little fine to coarse Gravel, little Silt (A-1-b)								
			1 5		FILL							
1.5	S-3	.61 .08	3 2	S-3 (1.22-1.83m): Similar to above (A-1-b)								
			2 8		W/ COBBLES AND BOULDERS							
					Augered through Cobbles and Boulders from 1.83 to 2.44m.							
	S-4	.61 .41	12 17	S-4 (2.44-3.05m): Dense brown, fine to coarse SAND, little fine to coarse Gravel, little Silt, trace possible Concrete fragments (A-1-b)								
3.0			14 17			7.8	43.6	37.0	19.4			
	S-5	0.61 0.41	11 17	S-5 (3.05-3.66m): Dense, brown fine to coarse SAND, little fine to coarse Gravel, little Silt (A-1-b)								
			16 14									
					SILTY SANDY							
4.6												
	S-6	.61 .23	12 11	S-6 (4.57-5.18m): Similar to above except medium dense (A-1-b)								2.
			8 7			16.4	42.8	43.5	13.7			
	S-7	.61 .38	17 44	S-7 (6.10-6.71m): Very dense, gray brown fine to coarse SAND, some fine to coarse Gravel, little Silt (A-1-b)								
			24 26									
7.6												
	S-8	.61 .61	12 12	S-8 (7.62-8.23m): Dense, brown fine SAND, some Silt with lower bottom gray brown SILT, trace fine Sand (A-4)								
			13 17			28.7	1.7	8.4	89.9			
9.1												
REMARKS	1. Boring advanced open hole through boulder fill using 0.10m solid stem augers from zero to 3.05m depth. 2. Hydraulic head supplemented with polymer drilling fluid maintained inside augers below 4.57m depth in effort to minimize potential of running sands.											
NOTES	1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES. ACTUAL TRANSITIONS MAY BE GRADUAL. 2) 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.											
GEODESIGN, Inc. 54 Main Street Windsor, VT 05089 TEL: (802) 674-2033 FAX: (802) 674-5943	BORING NO.	B-3										

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	S-9	0.61 0.41	9 12	S-9 (9.15-9.76m): Dense, gray brown fine to coarse SAND, some fine to coarse Gravel, little Silt (A-1-b)								
			14 12									
10.7												
	S-10	0.61 0.45	17 21	S-10 (10.67-11.28m): Similar to above (A-1-b)								
			19 27									
12.2												
	S-11	0.61 0.43	5 7	S-11 (12.20-12.81m): Medium dense brown fine SAND, trace Silt, trace (-) fine Gravel (A-4)								3.
			12 24									
13.7												
	S-12	0.61 0.30	16 17	S-12 (13.72-14.33m): Dense, brown fine to coarse SAND, some (+) fine to coarse Gravel, trace (-) Silt (A-2-4)								
			18 21									
15.2												
	S-13	0.30 0.30	17 30	S-13 (15.24-15.85m): Very dense (spoon refusal) brown fine SAND, little fine to coarse Gravel, little Silt (A-2-4)								
			60/0									
16.8												
	C-1	1.52 1.34	16 77 18	C-1 (16.77-18.29m): Moderately fractured gray GNEISS with near vertical fracture between 18.00 and 18.29m depth. REC = 1.32/1.52 = 87% RQD = 0.97/1.52 = 64%								
			18 29 13									
18.3												
REMARKS	3. Sands "blew" 1.2m into HSA during plug withdrawal from 12.20m depth. Sands washed out prior to sampling with the possibility that blow counts are erroneously low. 4. Difficult advance of augers approximately 0.76m into probable rock to auger refusal at 16.62m depth, then advanced roller bit 0.15m to 16.77m depth into probable bedrock prior to rock coring.											
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	C-2	1.52 1.37	18 29 16	C-2 (18.29-19.82m): Intact gray GNEISS. REC = 1.37/1.52 = 90% RQD = 1.37/1.52 = 90%								
			19 82 12									
19.8												
21.3												
22.9												
24.4												
25.9												
27.4												
REMARKS	END OF BORING											
NOTES	1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES BETWEEN MATERIAL TYPES. ACTUAL TRANSITIONS MAY BE GRADUAL. 2) 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.											
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EXIST. GROUND EL. 296.16

BOTTOM FTG. ABUT. 2 EL. 290.60

BEDROCK EL. 279.55

GEOTECHNICAL BORING LOGS 3

PROJECT NAME:	LINCOLN	PLOT DATE:	29-JAN-2009
PROJECT NUMBER:	BRO 1445 (25)	DRAWN BY:	T. LACKEY
FILE NAME:	s96j266bor.dgn	CHECKED BY:	R. WHITCOMB
DESIGNED BY:	S. SCRIBNER	SHEET	26 OF 58
GEOTECHNICAL BORING LOGS 3			