VAOT Metric

B-4

EXIST. GROUND
EL. 295.66

BOTTOM FTG.
ABUT. 2
EL. 290.60

GEODESIGN INCORPORATED
Geotechnical Engineers and Environmental Consultants

PROJECT NAME AND LOCATION: Lincoln BRO 1445 (25), Lincoln, Vermont

GEODESIGN, INC. SOIL BORING LOG

BORING NO.	B-4
PAGE NO.	1 OF 3
FILE NO.	750-03.1
REVIEWER	JEL

BORING CO.	M & W Soils Engineering	CASING		SAMPLER	GROUNDWATER READINGS
FOREMAN	Myron Domingue	H.S.A.	TYPE	S.S.	DATE/TIME / DEPTH / STAB. TIME
INSPECTOR	Robert Marshall	83/115 mm	I.D./O.D.	35/51 mm	9/13/00 0930 / 3.66 m / 5 Minutes
DATE START	9/13/00	-	HAMMER	63.5 Kg	
DATE END	SAME	-	FALL	0.76 m	
GROUND EL.	295.665 m	-	OTHER	-	

DEPTH	CASING BLOWS	NO.	PEN./REC.	BLOWS PER 0.15 m	CORING (min/0.3m)	SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM CHANGES	% M.C.	% GRAV.	% SAND	% FINES	LQ. LIM.	PL. LIM.	REMARK
		S-1	0.61	0.2	1 1 3 2	S-1 (0-0.61m): TOP 0.10m Loose dark brown TOPSOIL. BOT 0.10m Loose brown fine to coarse SAND, little Silt, trace fine Gravel (A-	0.1m TOPSOIL							1.
		S-2	0.61	0	5 7 3 5	S-2 (0.61-1.22m): No Recovery	SANDY GRAVEL WITH BOULDERS							
1.5		S-3	.03	0	50/0.03	S-3 (1.22-1.25m): Refusal and no recovery								
		S-4	.36	.13	7 17 60/0.06	S-4 (1.52-2.13m): Very dense (refusal) brown fine to coarse SAND, little fine to coarse Gravel, trace Silt (A-1-b).		4.7	47.4	42.6	9.9			
3.0							+/- 3.05 m							2.
		S-5	0.61	0.28	17 12 14 21	S-5 (3.05-3.66m): Medium dense gray brown fine to coarse SAND, little Silt, trace fine to coarse Gravel (A-2-4).								
4.6														
		S-6	0.61	0.25	12 14 16 19	S-6 (4.57-5.18m): Dense brown fine to coarse angular GRAVEL, some coarse to fine Sand, some Silt (A-2-4).	SILTY SANDY GRAVEL							
6.1														3.
		S-7	0.61	0.43	17 24 32 62	S-7 (6.10-6.71m): Very dense brown fine to medium SAND, some fine to coarse Gravel, some Silt (A-2-4).		10.6	37.0	36.2	26.9			
7.6														
		S-8	0.61	0.25	26 31 22 28	S-8 (7.62-8.23m): Similar to above (A-2-4).	+/- 8.53 m							
9.1							SAND							4.

REMARKS
1. Boring advanced open hole with significant difficulty through boulder fill using 0.10m solid stem augers from zero to 3.05m depth.
2. Hydraulic head maintained in augers below 3.05m depth in effort to prevent sample disturbance.
3. Petroleum odor observed in auger cuttings below 6.10m depth. Odor not noticed in spoon samples.
4. Sands blew 1m into augers following plug removal from 9.15m depth: Sands washed out prior to S-9.

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-4

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GROUND EL.	295.665 m	-	OTHER	-	

DEPTH	CASING BLOWS	NO.	PEN./REC.	BLOWS PER 0.15 m	CORING (min/0.3m)	SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM CHANGES	% M.C.	% GRAV.	% SAND	% FINES	LQ. LIM.	PL. LIM.	REMARK
		S-9	0.61	0.56	17 24 32 38	S-9 (9.15-9.76m): Very dense brown fine SAND, trace Silt (A-3).	SAND	23.4	0	96.0	4.0			
10.7						Sands blew 1.3m into augers following plug removal from 10.67m depth: Flushed sands out, then sands blew 1.1m into auger while lowering sampler. No sample taken and augers advanced to 12.20m interval	+/- 11.28 m							
12.2							GRAVELLY SAND							
		S-10	0.46	0.20	30 32 36	S-10 (12.20-12.66m): Very dense brown fine to coarse SAND, trace Silt (A-1-b).		12.5	30.6	63.2	6.2			
13.7							+/- 13.26 m							5.
		S-11	0.61	0.48	18 13 20 19	S-11 (13.72-14.33m): Dense, brown fine to coarse SAND, some (-) fine to coarse Gravel, trace Silt (A-2-4).								
15.2														
		S-12	0.61	0.31	17 21 38 63	S-12 (15.24-15.85m): Very dense, brown fine to coarse SAND, little (-) fine to coarse Gravel, little (-) Silt (A-2-4).	GRAVELLY SILTY SAND	16.4	20.2	52.0	27.8			
16.8														
		S-13	0.31	0.31	48 170	S-13 (16.77-17.08m): Very dense (spoon refusal) brown fine to coarse SAND, trace fine to coarse Gravel, trace Silt (A-2-4).								
18.3														

REMARKS
5. Advanced sampler through 0.15m of sands in auger at start of S-10 sample interval.

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		S-14	0.08	0.08	60/0.08	S-14 (18.29-18.38m): Very dense (spoon refusal) gray-brown fine to coarse SAND, little fine to coarse Gravel, little Silt (A-2-4).	18.38 m END OF BORING							
19.8														
21.3														
22.9														
24.4														
25.9														
27.4														

REMARKS

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GEOTECHNICAL
BORING LOGS 4

PROJECT NAME: LINCOLN
PROJECT NUMBER: BRO 1445 (25)

FILE NAME: s96J266bor.dgn	PLOT DATE: 29-JAN-2009
PROJECT MANAGER: R. WHITCOMB	DRAWN BY: T. LACKEY
DESIGNED BY: S. SCRIBNER	CHECKED BY: R. WHITCOMB
GEOTECHNICAL BORING LOGS 4	SHEET 27 OF 58