

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-LC-102 SHEET 1 of 2 DATE STARTED: 9/25/12 DATE COMPLETED: 9/26/12					
PROJECT NAME: CLD Lunenburg Culvert		PROJECT NUMBER: 123-87438		SITE NUMBER: BR 126					
SITE NAME:		STATION: 429+25		GROUND ELEVATION: 838.0 ft					
OFFSET: 50 RT		VTSPG: N 724746.56 ft E 1867986.70 ft		GROUNDWATER DEPTH: 3.6 ft 9/26/12					
BORING CREW:		BORING TYPE: WASH BORE		PROJECT PIN NUMBER: Lunenburg NH Culv (27)					
DRILLER: D. Thompson		LOGGER: M. Henrick		SAMPLE TYPE: SPLIT BARREL & TUBE					
BORING RIG: Diedrich D-50 Track		CHECKED BY: JRS		HAMMER TYPE:					
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)	LL (%)	PI (%)
0.0		0.0 ft - 2.5 ft, Field note: Rock fill at surface.							
2.5		2.5 ft - 5.0 ft, Field note: brown sandy silt based on auger cuttings. Augered to 5 ft., then switched to Drive and Wash							
5.0		5.0 ft - 5.8 ft, CiSaSi, medium brown, Sat, Rec. = 1.8 ft	1-2-1-1 (3)						
5.8		5.8 ft - 7.0 ft, CiSi Faintly varved, medium gray, Sat, Torvane = 0.25, 0.25 kg/cm2							
7.0		7.0 ft - 9.0 ft, CiSi Faintly varved, medium gray, Sat, Torvane = 0.10, 0.10 kg/cm2, Rec. = 1.7 ft	1-1-2-3 (3)	35.0				41	22
10.0		10.0 ft - 12.0 ft, CiSi Thinly varved, medium gray, Sat, Torvane = 0.20, 0.19 kg/cm2, Rec. = 0.8 ft	2-5-4-4 (9)						
15.0		15.0 ft - 17.0 ft, CiSi Thinly varved, medium gray, Sat, Torvane = 0.22, 0.21 kg/cm2, Rec. = 2.0 ft	2-2-2-2 (4)						
18.0		18.0 ft - 20.0 ft, CiSi Shelby tube sample, medium gray, Sat, Rec. = 2.0 ft	NA (NA)	35.0				30	10

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PROJECT NAME: CLD Lunenburg Culvert		PROJECT NUMBER: 123-87438		SITE NUMBER: BR 126					
SITE NAME:		STATION: 429+25		GROUND ELEVATION: 838.0 ft					
OFFSET: 50 RT		VTSPG: N 724746.56 ft E 1867986.70 ft		GROUNDWATER DEPTH: 3.6 ft 9/26/12					
BORING CREW:		BORING TYPE: WASH BORE		PROJECT PIN NUMBER: Lunenburg NH Culv (27)					
DRILLER: D. Thompson		LOGGER: M. Henrick		SAMPLE TYPE: SPLIT BARREL & TUBE					
BORING RIG: Diedrich D-50 Track		CHECKED BY: JRS		HAMMER TYPE:					
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)	LL (%)	PI (%)
25.0		25.0 ft - 27.0 ft, CiSi Thinly varved, medium gray, Sat, Torvane = 0.40 kg/cm2 in bottom 6-in., 0.11 kg/cm2 in middle., Rec. = 2.0 ft	0-1-2-3 (3)	34.0				40	16
30.0		30.0 ft - 32.0 ft, CiSiSa, brown-gray, Sat, Sand and gravel lens at 29.5 ft. based on drill behavior., Rec. = 2.0 ft	4-1-2-2 (3)						
32.0		32.0 ft - 34.5 ft, Cannot push casing with rig past 32 ft. Casing refusal at 34 ft., glacial till based on drill behavior to 34.5 ft.							
35.0		RR1: 35.0 ft - 39.8 ft, NQ, Rec. = 3.33 ft, greenish gray, Phyllite, discontinuities close to very closely spaced, subhorizontal to vertical, planar to irregular, smooth to very rough. Thin quartz/calcite veins generally parallel to foliation, 1/4" thick. Discontinuities generally discordant to foliation. Weakly foliated. Weak to medium weak, moderately weathered	RR1	69	396	3.75			
35.0		Top of Bedrock @ 34.5 ft							
40.0		Hole stopped @ 39.8 ft							
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Advanced with 2 1/4" ID HSAs to 5 ft.</li> <li>- Boring location estimated from swing ties. Location not surveyed.</li> </ul>									

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PROJECT NAME: LUNENBURG	PLOT DATE: 8/6/2015
PROJECT NUMBER: NH CULV(27)	DRAWN BY: M. SMITH
FILE NAME: I1b294/cos/zlib294bor.dgn	DESIGNED BY: S. BEAUMONT
PROJECT LEADER: J. BYATT	CHECKED BY: J. BYATT
BORING LOGS SHEET 1	SHEET 33 OF 74