



BORING LOG B-511

BORING LOG B-511 (CONT'D)

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GZA GeoEnvironmental, Inc. Engineers and Scientists		Bennington Bypass North Bennington, Vermont		Boring No.: B-511					
Contractor: Geologic-Earth Exploration		Auger/Casing Sampler		Page: 1 of 3					
Foreman: Ray Eastwood/Matt Carhron		Type: ODEX SS		File No.: 15634.16					
Logged by: L. Charest		I.D.: 108 mm 35 mm		Check: DGL					
Date Start/Finish: 7-17-06 / 7-18-06		Date Time Depth Casing Stab		GROUNDWATER READINGS					
Boring Location: NB 6+309.3, 3.0m L		Hammer Wt.: NA 63.5 kg		Not measured					
GS Elev.: 251.65m Datum: NAVD88		Hammer Fall: NA 0.76 m							
		Rig Type: CME750 ATV							
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
						Advanced borehole through nested cobbles and boulders from 0 to 2.74 meters (0 to 9 feet) below ground surface using an ODEX hammer.			No Equipment Installed
							FLUVAL		
5	S-1	0.61/0.43	2.74-3.35	18-18 22-29	40	Dense, light brown, SILT, some fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)	274m		
	S-2	0.61/0.38	4.27-4.88	10-14 17-29	31	Dense, light brown, SILT, some fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)			
	S-3	0.61/0.56	5.79-6.40	10-17 25-30	42	Dense, light brown, SILT, some fine Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-4	0.61/0.58	7.32-7.92	10-20 33-61	53	Hard, light brown, Clayey SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-5	0.61/0.53	8.84-9.45	19-22 57-58	59	Hard, light brown, Clayey SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			

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	S-6	0.61/0.53	10.36-10.97	14-22 61-72	83	Hard, light brown, Clayey SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)			
	S-7	0.61/0.51	11.89-12.50	17-19 36-45	55	Hard, light brown, Clayey SILT, trace fine to medium Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-8	0.61/0.51	13.41-14.02	32-36 50-70	86	Hard, light brown, Clayey SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
15	S-9	0.53/0.51	14.94-15.47	23-56 98-100/76	154	Hard, light brown, Clayey SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)		LACUSTRINE	
	S-10	0.46/0.41	16.46-16.92	23-52 100/152	52	Hard, light brown, Clayey SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-11	0.56/0.46	17.98-18.54	18-36 78-100/102	114	Very dense, light brown, SILT, some fine Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)			
20	S-12	0.53/0.53	19.51-20.04	23-63 10-100/76	173	Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			
	S-13	0.46/0.43	21.03-21.49	23-45 103/152	45	Very dense, light brown, SILT, trace fine Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)			

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	S-14	0.28/0.28	22.56-22.83	72-100/127 100/127	100	Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			
25	S-15	0.41/0.36	24.08-24.49	41-79 100/102	79	Very dense, light brown, SILT, some fine Sand, little Gravel with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-16	0.30/0.25	25.60-25.91	89-120/152 20/152	100	Very dense, light brown, SILT, some fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)			
	S-17	0.36/0.30	27.13-27.48	33-68 100/51	68	Very dense, light brown, SILT, little fine Sand, little Gravel with white, Clayey Silt lenses. (A-4)	27.48m		
						Bottom of boring at 27.48 meters (90.2 feet) below ground surface. Split spoon refusal.			

All depth measurements are approximate. Stratification lines represent approximate boundary between soil types, transitions may be gradual. 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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* BOTTOM OF DRILLED SHAFT, FUTURE NB VT ROUTE 279, PIER 4 - EL. 221.950

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	BENNINGTON	Bridge No.	BI5, BI5N, BI5S
Highway No.	VT RTE 279	Log Sta.	
		Surv. Sta.	
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER			
BORING LOGS (SHEET 30 OF 33)			
Designed By	GZA	Drawn By	L.R. DELL
Checked By	GZA	Date	06/08
		Bridge Design Supervisor	K.M. WOJTKOWSKI
		Date	06/08
PROJECT	BENNINGTON	PROJECT NO.	AC NH 019-(I51)
TVGA CAD Drawing No.	BL30.dgn	Date	02/02/2009
Bridge Sheet No.	BR236	Sheet	223 of 367

