Metric

BORING LOG B-505

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

Bennington Bypass North
Bennington, Vermont

Boring No.: B-505
Page: 1 of 3
File No.: 15634.16
Check: DGL

Contractor: Geologic-Earth Exploration
Foreman: Tim Tucker/Charlie O'Donnell
Logged by: L. Charest
Date Start/Finish: 7-25-06 / 7-26-06
Boring Location: NB 6+254.2, 3.0m R
GS Elev.: 251.03m Datum: NAVD88

	Auger/ Casing	Sampler
Type:	ODEX	SS
I.D.:	108 mm	35 mm
Hammer Wt.:	NA	63.5 kg
Hammer Fall:	NA	0.76 m
Rig Type:	CME750 ATV	

GROUNDWATER READINGS

Date	Time	Depth	Casing	Stab
Not	measured			

Depth (m)	Sample Info: 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 3.05 meters (0 to 10 feet) below ground surface using an ODEX hammer.	FLUVIAL		No Equipment Installed
	S-1	0.61/ 0.51	3.05- 3.66	13-12 16-16	28	Medium dense, light brown, SILT, little fine to medium Sand, little Gravel with white, Clayey Silt lenses. (A-4)	3.05m		
5	S-2	0.61/ 0.56	4.27- 4.88	11-18 25-19	43	Dense, light brown, fine to coarse SAND, some Silt, little Gravel. (A-2-4)			
	S-3	0.61/ 0.51	5.79- 6.40	7-17 30-29	47	Dense, light brown, SILT, some Gravel, little fine to coarse Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-4	0.61/ 0.51	7.32- 7.92	9-28 25-31	53	Very dense, light brown, SILT, some fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			
	S-5	0.61/ 0.41	8.84- 9.45	6-9 17-19	26	Medium dense, light brown, SILT, some fine Sand with white, Clayey Silt lenses and brown, Silt lenses. (A-4)			

SOIL BL WELL 500 SERIES.SPJ GZA MA.GDT 12/4/06

REMARKS

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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	S-6	0.61/ 0.46	10.36- 10.97	7-11 14-18	25	Medium dense, light brown, SILT, some fine Sand with white, Clayey Silt lenses. (A-4)			
	S-7	0.61/ 0.46	11.89- 12.50	6-16 22-38	38	Dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-8	0.61/ 0.51	13.41- 14.02	7-15 23-31	38	Dense, light brown, SILT, some fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			
15	S-9	0.61/ 0.58	14.94- 15.54	17-19 23-33	42	Dense, light brown, SILT, little fine Sand with white and brown, Clayey Silt lenses. (A-4)			
	S-10	0.61/ 0.43	16.46- 17.07	15-31 42-58	73	Very dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses and seams. (A-4)	LACUSTRINE		
	S-11	0.61/ 0.48	17.98- 18.59	21-35 49-63	84	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
20	S-12	0.61/ 0.43	19.51- 20.12	22-31 52-71	83	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-13	0.61/ 0.38	21.03- 21.64	17-23 39-51	62	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses and seams. (A-4)			

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	S-14	0.61/ 0.33	22.56- 23.16	15-26 71-106	97	Very dense, light brown, SILT, trace fine Sand with white and dark brown, Clayey Silt lenses. (A-4)			
	S-15	0.61/ 0.46	24.08- 24.69	13-36 51-76	87	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses and seams. (A-4)	LACUSTRINE		
25	S-16	0.56/ 0.41	25.60- 26.16	15-33 66-100/102 mm	99	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
	S-17	0.61/ 0.46	27.13- 27.74	19-42 71-101	113	Very dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)			
						Bottom of boring at 27.74 meters (91 feet) below ground surface. No refusal.	27.74m		
30									

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x * BOTTOM OF DRILLED SHAFT, FUTURE NB VT ROUTE 279, PIER 3 - 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 24 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 019-1(51)
TVGA CAD Drawing No. BL24.dgn	Date 02/02/2009
Bridge Sheet No. BR230	Sheet 217 of 367

TVGA CONSULTANTS