BORING LOG B-506

GZA GeoEnvironmental, Inc. *Engineers and Scientists*

Bennington Bypass North
Bennington, Vermont

Boring No.: B-506
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 / 7-27-06
Boring Location: NB 6+251.2, 20.0m R
GS Elev.: 251.77m 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 4.57 meters (0 to 15 feet) below ground surface using an ODEX hammer.	FLUVIAL		No Equipment Installed
5	S-1	0.61/ 0.53	4.57- 5.18	10-19 22-24	41	Dense, brown, SILT, some fine Sand, little Gravel with white, Clayey Silt lenses. (A-4)	4.57m		
	S-2	0.61/ 0.46	5.79- 6.40	7-14 24-38	38	Dense, light brown, SILT, little fine Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
	S-3	0.61/ 0.61	7.32- 7.92	15-20 29-43	49	Dense, light brown, SILT, little fine to medium Sand, little Gravel with white, Clayey Silt lenses and seams. (A-4)			
	S-4	0.15/ 0.13	8.84- 8.99	80-30/0 mm	30/0 mm	Very dense, light brown, SILT, some fine to medium Sand, trace Gravel with white, Clayey Silt lenses. (A-4)			

REMARKS

SOIL BL. WELL 500 SERIES.GPJ GZA_MA.GDT 12/4/06

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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BORING LOG B-506 (CONT'D)

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	S-5	0.33/ 0.00	10.36- 10.69	46-89 30/25 mm	89 30/25 mm	No recovery.			
	S-6	0.58/ 0.28	11.89- 12.47	22-34 54-100/127 mm	88	Very dense, light brown, SILT, little fine Sand, little Gravel with white, Clayey Silt lenses and seams. (A-4)			
	S-7	0.61/ 0.30	13.41- 14.02	12-21 55-65	76	Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white and gray, Clayey Silt lenses. (A-4)			
15	S-8	0.61/ 0.53	14.94- 15.54	24-37 53-72	90	Very dense, light brown, SILT, little fine to coarse Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)	LACUSTRINE		
	S-9	0.61/ 0.51	16.46- 17.07	20-41 76-80	117	Very dense, light brown, SILT, little fine Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)			
	S-10	0.30/ 0.30	17.98- 18.29	6-100/152 mm	100/152 mm	Very dense, light brown, SILT, little fine to medium Sand with white, Clayey Silt lenses and seams. (A-4)			
20	S-11	0.15/ 0.15	19.51- 19.66	100		Very dense, light brown, SILT, little fine to medium Sand, trace Gravel with white, Clayey Silt lenses and seams. (A-4)			
	S-12	0.41/ 0.30	21.03- 21.44	44-71 100/102 mm	71 100/102 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			

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	S-13	0.28/ 0.28	22.56- 22.83	52-100/127 mm	100/127 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses and seams. (A-4)			
	S-14	0.46/ 0.41	24.08- 24.54	31-60 100/152 mm	60 100/152 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses. (A-4)	LACUSTRINE		
25	S-15	0.28/ 0.18	25.60- 25.88	44-100/127 mm	100/127 mm	Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses. (A-4)			
	S-16	0.10/ 0.08	27.13- 27.23	100/102 mm		Very dense, light brown, SILT, trace fine Sand with white, Clayey Silt lenses. (A-4) Bottom of boring at 27.23 meters (89.3 feet) below ground surface. Split spoon refusal.	27.23m		
30									

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* BOTTOM OF DRILLED SHAFT, RAMP D, PIER 1 - EL. 225.250

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 25 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. BL25.dgn	Date 02/02/2009
Bridge Sheet No. BR231	Sheet 218 of 367

TVGA CONSULTANTS