



PARTIAL BORING LOG B-19(OW)

PARTIAL BORING LOG B-19(OW) (CONT'D)

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GZA GeoEnvironmental, Inc. Bennington Bypass North Bennington, Vermont
 Boring No.: B-19(OW) Page: 1 of 5
 File No.: 15634 Check: TAD

Contractor: New Hampshire Boring Auger/Casing Sampler
 Foreman: J. Michaud
 Logged by: S. Raymond
 Date Start/Finish: 8-12-99 / 8-17-99
 Boring Location: 6+310, 5m L
 GS Elev.: 251.84m Datum: NGVD

Type: PW/NW SS
 I.D. (mm): 127/76 35
 Hammer Wt.: 136.1kg 63.5kg
 Hammer Fall: 0.61m 0.76m
 Rig Type: Muskeg B-53 Bomb

Date		Time		Depth	Casing	Stab
8-17-99	0800	2.09m	None	15 hrs.		

Depth (feet)	Depth (meters)	No.	Rec. (m)	Depth (m)	Blows/0.15m	N Value	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
5'	1.5	S-1	0.10	0-0.12	100/127mm	100	Forest Mat. Very dense, brown, fine to coarse SAND, some Gravel, little Silt, trace Organics. Cobbles at 0.12 meters. (A-1-a)	FOREST MAT 0.15m		CONCRETE SEAL
							Nestled cobbles and boulders from 1.22 to 1.83 meters.	FLUVIAL		FILTER SAND
		S-2	0.15	1.83-2.04	24/102mm	100	Very dense, reddish brown, fine to coarse SAND and Gravel, trace Silt. Rock fragments in tip of spoon. (A-1-a)			BENTONITE SEAL
10'	3.0	S-3	0.03	3.05-3.66	12-12/13-16	25	Very stiff, light brown, SILT and CLAY, some fine to coarse Sand, little Gravel.	2.74m		19mm ID SCH. 40 PVC WELL CASING
15'	4.6	S-4	0.51	4.57-5.18	14-16/30-37	46	Hard, light brown, Clayey SILT, some Gravel, little fine to coarse Sand with yellowish brown Silt seams. (A-2-4)	LACUSTRINE		FILTER SAND
20'	6.1	S-5	0.46	6.10-6.71	15-19/26-30	45	Hard, light brown, Clayey SILT, little fine to coarse Sand with yellowish brown Silt seams and white and gray Clayey Silt lenses. (A-2-4)			19mm ID SCH. 40 PVC SCREEN
25'	7.6	S-6	0.46	7.62-8.23	13-20/29-35	49	Hard, light brown and white, Clayey SILT, trace fine to coarse Sand with gray Clayey Silt lenses and yellowish brown Silt lenses. (A-2-4)			

REMARKS

Stratification lines represent approximate boundaries 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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35'	10.7	S-7	0.43	9.14-9.75	15-26/54-46	80	Very dense, grayish brown, fine SAND and Silt, trace Gravel with gray Silt seams, white Clayey Silt lenses and yellowish brown Silt lenses. (A-4)			FILTER SAND
		S-8	0.51	10.67-11.28	23-36/75-98	111	Very dense, gray and light brown, SILT, little Gravel, little fine to coarse Sand with white and gray Clayey Silt lenses. (A-4)			
40'	12.2	S-9	0.30	12.19-12.72	19-30/70-50/76mm	100	Very dense, white and light brown, SILT, trace fine Sand, trace Gravel with reddish brown Silt seams. (A-4)	LACUSTRINE		
45'	13.7	S-10	0.46	13.72-14.27	25-28/58-100/102mm	86	Very dense, light brown, SILT, little fine to coarse Sand with white Clayey Silt lenses and yellowish and reddish brown Silt lenses and brown Clayey Silt seams. (A-4)			
50'	15.2	S-11	0.30	15.24-15.62	36-70/50/51mm	120	Very dense, white and gray, SILT, trace fine Sand with iron oxide deposits and yellowish brown Silt lenses. (A-4)			
55'	16.8	S-12	0.15	16.76-17.05	41-100/127mm	100	Very dense, white and light brown, SILT, little fine Sand, trace Gravel with white Clayey Silt lenses. (A-4)			

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65'	19.8	S-13	0.30	18.29-18.73	19-42/100/127mm	142	Very dense, light brown, SILT, trace fine Sand with white and red Clayey Silt lenses. (A-4)			FILTER SAND
		S-14	0.20	19.81-20.07	50-100/102mm	100	Very dense, light brown, SILT, little fine Sand with white Clayey Silt lenses and 0.30 meters thick layer of reddish brown, fine to coarse Sand. (A-4)			
70'	21.3	S-15	0.36	21.34-21.75	32-75/50/76mm	125	Very dense, light brown, SILT, little fine Sand with white and red Clayey Silt lenses. (A-4)	LACUSTRINE		
75'	22.9	S-16	0.03	22.86-23.15	36-100/127mm	100	Very dense, light brown, SILT, trace fine to medium Sand with white Clayey Silt lenses. (A-4)			
80'	24.4	S-17	0.33	24.38-24.83	31-46/100/127mm	146	Very dense, light brown, SILT, little fine Sand with white Clayey Silt seams and lenses and light brown Clayey Silt seams. (A-4)			
85'	25.9	S-18	0.23	25.91-26.26	47-90/50/25mm	140	Very dense, light brown, SILT, little fine Sand with white Clayey Silt lenses. (A-4)			

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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. B15, B15N, B15S
 Highway No. VT RTE 279 Log Sta. / Surv. Sta.
 VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER

BORING LOGS (SHEET 6 OF 33)

Designed By GZA Drawn By L.R. DELL
 Checked By GZA Date 04/06 Bridge Design Supervisor K.M. WOJTKOWSKI Date 04/06

PROJECT BENNINGTON PROJECT NO. AC NH 019-(51)
 TVGA CAD Drawing No. BL06.dgn Date 02/02/2009
 Bridge Sheet No. BR212 Sheet 199 of 367

