



PARTIAL BORING LOG B-120

PARTIAL BORING LOG B-120 (CONT'D)

PARTIAL BORING LOG B-120 (CONT'D)

GZA		BENNINGTON BYPASS NORTH		BORING NO.: B-120	
GeoEnvironmental, Inc.		BENNINGTON, VERMONT		PAGE: 1 OF 4	
CONTRACTOR: NEW HAMPSHIRE BORING		AUGER/CASING		FILE NO.: 22724	
FOREMAN: MATT MARSTON		TYPE: HW		CHECK: DGL	
LOGGED BY: MARC SEXTON		SAMPLER		GROUNDWATER READINGS	
DATE START/FINISH: 8-6-01 / 8-8-01		I. D.: 102MM / 35MM		TIME DEPTH CASING STAB	
BORING LOCATION: NB 6*316, 24M L		HAMMER WT.: 136.1KG / 63.5KG		NO MEASUREMENTS TAKEN	
GS ELEV.: 291.21M DATUM: NAVD88		HAMMER FALL: 0.61M / 0.76M			
		RIG TYPE: DIEDRICH D-50 BOMBARDIER			
SAMPLE INFORMATION					
DEPTH (M)	NO.	PEN./REC. (M)	DEPTH (M)	BLOWS (/0.15M)	N VALUE
1					
2					
3					
4					
5	S-1	0.61/0.33	4.42-5.03	9-21/24-32	45
6					
7	S-2	0.61/0.25	6.10-6.71	9-20/20-28	40
8					
9	S-3	0.61/0.28	7.62-8.23	9-14/17-23	31
10					
11	S-4	0.61/0.46	9.14-9.75	8-18/21-33	39
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					

ADVANCED BOREHOLE THROUGH NESTED COBBLES AND BOULDERS FROM 0 TO 3.66 METERS (0 TO 12 FEET) BELOW GROUND SURFACE USING ODEX AND AIR HAMMER DRILLS.

FLUVIAL

3.66M

LACUSTRINE

NO EQUIPMENT INSTALLED

SOIL BE WELL BENEATH GZA NH DOT 8/12/02

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT 1 MINES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. BORING NO.: B-120

GZA		BENNINGTON BYPASS NORTH		BORING NO.: B-120	
GeoEnvironmental, Inc.		BENNINGTON, VERMONT		PAGE: 2 OF 4	
CONTRACTOR: NEW HAMPSHIRE BORING		AUGER/CASING		FILE NO.: 22724	
FOREMAN: MATT MARSTON		TYPE: HW		CHECK: DGL	
LOGGED BY: MARC SEXTON		SAMPLER		GROUNDWATER READINGS	
DATE START/FINISH: 8-6-01 / 8-8-01		I. D.: 102MM / 35MM		TIME DEPTH CASING STAB	
BORING LOCATION: NB 6*316, 24M L		HAMMER WT.: 136.1KG / 63.5KG		NO MEASUREMENTS TAKEN	
GS ELEV.: 291.21M DATUM: NAVD88		HAMMER FALL: 0.61M / 0.76M			
		RIG TYPE: DIEDRICH D-50 BOMBARDIER			
SAMPLE INFORMATION					
DEPTH (M)	NO.	PEN./REC. (M)	DEPTH (M)	BLOWS (/0.15M)	N VALUE
11	S-5	0.61/0.51	10.67-11.28	14-21/26-34	47
12					
13	S-6	0.61/0.53	12.19-12.80	10-17/20-38	37
14					
15	S-7	0.61/0.41	13.72-14.33	23-32/53-105	85
16					
17	S-8	0.61/0.46	15.24-15.85	15-24/34-60	58
18					
19	S-9	0.41/0.23	16.76-17.17	13-65/100/102MM	>100
20					
21	S-10	0.25/0.08	18.29-18.54	98-100/102MM	>100
22					
23	S-11	0.61/0.00	19.81-20.42	16-40/54-100	94
24					
25	S-12	0.28/	21.34-	41-100/	>100
26					
27					
28					
29					
30					
31					
32					
33					

DENSE, LIGHT BROWN SILT, LITTLE FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-4)

DENSE, LIGHT BROWN SILT, LITTLE FINE SAND WITH WHITE, CLAYEY SILT SEAMS AND LENSES. (A-4)

VERY DENSE, LIGHT BROWN SILT, SOME FINE SAND WITH GRAY, SILT SEAMS AND LENSES. (A-4)

VERY DENSE, BROWN SILT, LITTLE FINE SAND WITH WHITE, SILT LENSES. (A-4)

VERY DENSE, LIGHT BROWN SILT, SOME FINE SAND WITH WHITE, SILT LENSES. (A-4)

LACUSTRINE

SOIL BE WELL BENEATH GZA NH DOT 8/12/02

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT 1 MINES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. BORING NO.: B-120

GZA		Bennington Bypass North		Boring No.: B-120	
GeoEnvironmental, Inc.		Bennington, Vermont		Page: 3 of 4	
CONTRACTOR: NEW HAMPSHIRE BORING		AUGER/CASING		FILE NO.: 22724	
FOREMAN: MATT MARSTON		TYPE: HW		CHECK: DGL	
LOGGED BY: MARC SEXTON		SAMPLER		GROUNDWATER READINGS	
DATE START/FINISH: 8-6-01 / 8-8-01		I. D.: 102MM / 35MM		TIME DEPTH CASING STAB	
BORING LOCATION: NB 6*316, 24M L		HAMMER WT.: 136.1KG / 63.5KG		NO MEASUREMENTS TAKEN	
GS ELEV.: 291.21M DATUM: NAVD88		HAMMER FALL: 0.61M / 0.76M			
		RIG TYPE: DIEDRICH D-50 BOMBARDIER			
Sample Information					
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	BloWS (/0.15m)	N Value
22		0.10	21.62	127mm	
23	S-13	0.58/0.46	22.86-23.44	20-45/70-100/127mm	115
24					
25	S-14	0.41/0.33	24.38-24.79	45-78/100/102mm	>100
26					
27	S-15	0.43/0.48	25.91-26.34	26-66/100/127mm	>100
28					
29	S-16	0.41/0.38	27.43-27.84	34-78/100/102mm	>100
30					
31	S-17	0.41/0.25	28.96-29.36	33-96/100/102mm	>100
32					
33	S-18	0.38/0.30	30.48-30.86	38-86/100/76mm	>100
34					
35	S-19	0.28/0.25	32.00-32.28	43-100/127mm	>100
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					

Sand with light brown, Silt seams and lenses. (A-4)

Very dense, light brown, SILT, some fine Sand with white, Silt lenses. (A-4)

Very dense, light brown, SILT, some fine Sand with white, Silt seams and lenses. (A-4)

Very dense, light brown, SILT, little fine Sand with white, Silt lenses. (A-4)

Very dense, light brown, SILT, little fine Sand, trace fine Gravel with white, Silt lenses. (A-4)

Very dense, light brown, SILT, little fine Sand with gray, Silt lenses. (A-4)

Very dense, light brown, SILT, some fine Sand, with gray, Silt seams and white, Silt lenses. (A-4)

Very dense, light brown, SILT, some fine Sand with white, Silt seams and lenses. (A-4)

LACUSTRINE

SOIL BE WELL BENEATH GZA NH DOT 8/12/02

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT 1 MINES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE. BORING NO.: B-120

* BOTTOM OF DRILLED SHAFT, RAMP A PIER 8 - EL. 224.250

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 16 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 019-1(51)
TVGA CAD Drawing No.	BL16.dgn	Date	02/02/2009
Bridge Sheet No.	BR222	Sheet	209 of 367

