

PARTIAL BORING LOG B-4

GZA GeoEnvironmental, Inc. Engineers and Scientists		Guilford Bridge Widening Guilford, Vermont		Boring No.: B-4 Page: 1 of 3					
Contractor: New Hampshire Boring		Auger/ Casing Sampler		File No.: 22718 Check: TAD					
Foreman: S. Clavette		Type: HW SS		Logged by: S. Carrier					
Date Start/Finish: 12-4-00 / 12-7-00		O.D. / I.D.: 4" 2"		Date: _____ Time: _____					
Boring Location: See Exploration Location Plan		Hammer Wt.: 300# 140#		Stratum Desc.:					
GS Elev.: 421 Datum: NGVD		Hammer Fall: 24" 30"		Remarks:					
		Other: Dietrich D50		Equipment Installed:					
Bombardier									
Depth	Sample Information			Field Test Data (ppm)	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed	
	Casing No.	Pen/ Rec. (In.)	Depth (Ft.)						Blows (/6')
5'	S-1	24/4	0-2	4-3	Loose, dark brown, fine to medium SAND, trace Gravel, little Silt, trace Organics and Roots. (A-1)	TOPSOIL		NO EQUIPMENT INSTALLED	
				5-5					
10'	S-2	24/1	5-7	5-3	Loose, brown, fine to coarse SAND, trace Gravel, trace Silt. (A-1)			NO EQUIPMENT INSTALLED	
				3-7					
15'	S-3	24/5	10-12	4-4	Loose, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				3-2		FILL			
20'	S-4	24/1	15-17	9-7	Medium dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				8-6					
25'	S-5	24/0	20-22	12-8	No recovery.			NO EQUIPMENT INSTALLED	
				6-13					
30'	S-6	24/8	25-27	4-16	Dense, gray, fine SAND and Silt, trace Gravel, trace Organics and Roots. (A-4)			NO EQUIPMENT INSTALLED	
				20-17					
REMARKS					1. Sieve analysis performed on S-8.				
Classification 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.					Boring No.: B-4				

BOTTOM OF ABUTMENT 2 FOOTING (3W)
EL. 404.7

PARTIAL BORING LOG B-4 (CONT'D)

GZA GeoEnvironmental, Inc. Engineers and Scientists		Guilford Bridge Widening Guilford, Vermont		Boring No.: B-4 Page: 2 of 3					
Contractor: New Hampshire Boring		Auger/ Casing Sampler		File No.: 22718 Check: TAD					
Foreman: S. Clavette		Type: HW SS		Logged by: S. Carrier					
Date Start/Finish: 12-4-00 / 12-7-00		O.D. / I.D.: 4" 2"		Date: _____ Time: _____					
Boring Location: See Exploration Location Plan		Hammer Wt.: 300# 140#		Stratum Desc.:					
GS Elev.: 421 Datum: NGVD		Hammer Fall: 24" 30"		Remarks:					
		Other: Dietrich D50		Equipment Installed:					
Bombardier									
Depth	Sample Information			Field Test Data (ppm)	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed	
	Casing No.	Pen/ Rec. (In.)	Depth (Ft.)						Blows (/6')
35'	S-7	24/6	30-32	28-62	Very dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				19-11					
40'	S-8	24/11	35-37	40-25	Very dense, gray, fine to coarse SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				25-27					
45'	S-9	24/8	40-42	22-33	Very dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				49-36					
50'	S-10	24/11	45-47	23-16	Dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				19-17		FILL			
55'	S-11	24/4	50-52	16-13	Very dense, gray, fine to coarse SAND, little Gravel, trace Silt. (A-1)			NO EQUIPMENT INSTALLED	
				46-93					
60'	S-12	22/5	55-56.8	38-61	Very dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				60-100/4"					
REMARKS					2. Hole collapsed to 35 feet. Recapped hole to 70 feet for sample from 70 to 72 feet.				
Classification 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.					Boring No.: B-4				

EST. NEW PILE PENETRATION
(FROM BOTTOM OF FOOTING - 60')

PARTIAL BORING LOG B-4 (CONT'D)

GZA GeoEnvironmental, Inc. Engineers and Scientists		Guilford Bridge Widening Guilford, Vermont		Boring No.: B-4 Page: 3 of 3					
Contractor: New Hampshire Boring		Auger/ Casing Sampler		File No.: 22718 Check: TAD					
Foreman: S. Clavette		Type: HW SS		Logged by: S. Carrier					
Date Start/Finish: 12-4-00 / 12-7-00		O.D. / I.D.: 4" 2"		Date: _____ Time: _____					
Boring Location: See Exploration Location Plan		Hammer Wt.: 300# 140#		Stratum Desc.:					
GS Elev.: 421 Datum: NGVD		Hammer Fall: 24" 30"		Remarks:					
		Other: Dietrich D50		Equipment Installed:					
Bombardier									
Depth	Sample Information			Field Test Data (ppm)	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed	
	Casing No.	Pen/ Rec. (In.)	Depth (Ft.)						Blows (/6')
65'	S-13	24/2	60-62	11-21	Dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				20-18					
70'	S-14	24/3	65-67	11-11	Medium dense, gray, fine SAND and Silt, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				6-8		FILL			
75'	S-15	24/3	70-72	16-24	Dense, gray, fine SAND, some Silt, trace Gravel. (A-2)			NO EQUIPMENT INSTALLED	
				20-59					
80'	S-16	10/0	75-	77-	No recovery.			NO EQUIPMENT INSTALLED	
				75.8	100/4"				
85'	S-17A	16/7	77-	67-102	S-17A: Very dense, gray, fine to coarse SAND, little Silt, trace Gravel. (A-1)			NO EQUIPMENT INSTALLED	
	S-17B	78.3	100/4"	S-17B: Very dense, gray, SILT, little Gravel, trace fine Sand. (A-4)					
90'	S-18	10/4	80-	88-	S-18: Very dense, gray, SILT, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				80.8	130/4"				
95'	S-19	24/6	85-87	89-70	Very dense, gray, SILT, trace Gravel. (A-4)			NO EQUIPMENT INSTALLED	
				80-120					
REMARKS					3. Encountered 12-inch-diameter boulder from 72 to 73 feet.				
Classification 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.					Boring No.: B-4				

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	GUILFORD	Bridge No.	3N
Highway No.	I-9I	Log Sta.	
I-9INB OVER BROAD BROOK & BROAD BROOK ROAD		Surv. Sta.	
BORING LOGS (4 OF 4)			
Designed By	GZA	Drawn By	GZA
Checked By	Date	Bridge Design Supervisor	Date
GZA	01/03	J.P. HALSTEAD	01/03
PROJECT	GUILFORD	PROJECT NO.	IM 091-I(33)
TVGA CAD Drawing No.	B-4.dgn	Date	06/06/08
Bridge Sheet No.	BRI08	Sheet	34 of 114

