TEST BORING LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*	Bridge #48 over Wanzer Brook Fairfield BRO 1448 (22) Fairfield, Vermont	EXPLORATION NO.: B-3 SHEET: 1 of 2 PROJECT NO: 04.0029571.00 REVIEWED BY: J. Baron

Logged By: J. Szmyt Drilling Co.: New Hampshire Boring, Inc. Foreman: Mark D'Ambrosio	Type of Rig: Acker Rig Model: Truck Drilling Method: Drive-and-Wash	Boring Location: See Plan Ground Surface Elev. (ft.): 479 Final Boring Depth (ft.): 50 Date Start – Finish: 3/21/2012 – 3/21/2012	H. Datum: NAD83 V. Datum: NAVD88

		Groundwater Depth (ft.)			
Hammer Type: Safety Hammer Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 4.0	Sampler Type: SS Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Rock Core Size: 1.875	Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S1	0–2	24	17	19 21 22 19	43	S1: Dense, light brown, fine to medium SAND, trace Gravel, trace Silt.				FILL	
											2		477.0
5		S2	5–7	24	19	1 3 5 6	8	S2: Loose, brown, SILT, some fine to medium Sand, little Gravel.					
												SILT	
10		S3	10–12	24	11	3 5 3 3	8	S3: Loose, brown, SILT, some fine to medium Sand, little Gravel.					
									1				
15		S4	15–17	24	0	7 7 4 7	11	S4: No Recovery.	2		15		464.0
20		S5	20–22	24	14	14 17 16 19	33	S5: Hard, gray, Clayey SILT.				SILT AND CLAY	
25		S6	25–27	24	20	20 23 27 33	50	S6: Hard, gray, varved SILT & CLAY with fine Sand partings.					
30													

B.O.F. 452.50

REMARKS

1 – Rock in tip of split spoon.
2 – Cobble or boulder encountered from approximately 17 feet to 19.5 feet below ground surface.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Exploration No.: B-3

GZA TEMPLATE TEST BORING: 6/29/2012; 10:27:07 AM

TEST BORING LOG

GZA GeoEnvironmental, Inc. *Engineers and Scientists*	Bridge #48 over Wanzer Brook Fairfield BRO 1448 (22) Fairfield, Vermont	EXPLORATION NO.: B-3 SHEET: 2 of 2 PROJECT NO: 04.0029571.00 REVIEWED BY: J. Baron

Logged By: J. Szmyt Drilling Co.: New Hampshire Boring, Inc. Foreman: Mark D'Ambrosio	Type of Rig: Acker Rig Model: Truck Drilling Method: Drive-and-Wash	Boring Location: See Plan Ground Surface Elev. (ft.): 479 Final Boring Depth (ft.): 50 Date Start – Finish: 3/21/2012 – 3/21/2012	H. Datum: NAD83 V. Datum: NAVD88

		Groundwater Depth (ft.)			
Hammer Type: Safety Hammer Hammer Weight (lb.): 140 Hammer Fall (in.): 30 Auger or Casing O.D./I.D Dia (in.): 4.0	Sampler Type: SS Sampler O.D. (in.): 2.0 Sampler Length (in.): 24 Rock Core Size: 1.875	Date	Time	Water Depth	Stab. Time

Depth (ft)	Casing Blows/ Core Rate	Sample No.	Sample Depth (ft.)	Sample Pen. (in)	Sample Rec. (in)	Sample Blows (per 6 in.)	Sample SPT Value	Sample Description and Identification (Modified Burmister Procedure)	Remark	Field Test Data	Stratum Depth (ft.)	Stratum Description	Stratum Elev. (ft.)
		S7	30–32	24	18	14 16 20 24	36	S7: Hard, gray, varved SILT & CLAY with fine Sand partings.				SILT AND CLAY	
35		S8	35–35.3	4	4	100/4"	R	S8: Very dense, gray/green, fine SAND, little Silt, little Gravel.			35		444.0
												TILL	
									3		38		441.0
40	4:37	C1	40–45	60	58			C1: Hard, slightly weathered, gray, fine grained SCHIST; joints moderately dipping, moderately rough, planar, fresh, open. RQD: 22"/37%					
	4:23												
	3:13												
	3:33												
	3:49											SCHIST	
45	3:04	C2	45–50	60	58			C2: Hard, fresh, gray, fine grained SCHIST; joints high angle, wide, rough, stepped, fresh, tight. RQD: 50"/83%					
	3:08												
	3:20												
	3:10												
	3:14												
50								End of exploration at 50 feet.			50		429.0
55													
60													

REMARKS

3 – Advanced roller bit into probable bedrock from approximately 38 to 40 feet below ground surface and began coring.

See Log Key for exploration of sample description and identification procedures. Stratification lines represent approximate boundaries between soil and bedrock types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

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GZA TEMPLATE TEST BORING: 6/29/2012; 10:27:07 AM

McFarland Johnson

PROJECT NAME: FAIRFIELD
PROJECT NUMBER: BRO 1448(38)

FILE NAME: z11j072bor_02.dgn
PROJECT LEADER: D. LANDRY
DESIGNED BY: GZA
BORING LOGS (3 OF 4)

PLOT DATE: 01-NOV-2013
DRAWN BY: W. GAYNOR
CHECKED BY: T. KENDRICK
SHEET 23 OF 41