BORING B-2 CONTINUED FROM PREVIOUS SHEET

ESTIMATED PILE TIP
EL. = 753 FT +/-

GEODESIGN INCORPORATED
Geotechnical Engineers and Environmental Consultants
P.O. Box 699, Windsor, VT 05089, Phone: 802-674-2033/Fax: 802-674-5943
1233 Shelburne Rd., Suite 360, So. Burlington, VT 05403, Phone: 802-652-5140

BORING LOG
Project Name
VTR Bridge #79
East Dorset, Vermont

Boring No.: B-2
Page No.: 2 of 2
File No.: 837-27
Checked By: JAG

Boring Company: TransTech Drilling Services
Foreman: John Leonhardt
GeoDesign Rep.: Jacob Wimett
Date Started: January 13, 2009 Date Finished: January 13, 2009
N. Coordinate: 267975 E. Coordinate: 1504341
Ground Surface Elevation (feet): 779
Station: Offset: ft

	Casing:	Sampler:
Type:	Flush	SS
I.D.:	3.0 in.	1.38 in.
Hammer Wt.:	300 lbs	140 lbs
Hammer Fall:	24 in.	30 in.
Rig Type:	CME 75	
Hammer Type:	Automatic	

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
1/13/09	5.0	774.0	Wet sample.

Depth (ft)	Casing Blows/ft	Sample Info: Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval: 0 - 6	6 - 12	12 - 18	18 - 24	PID Reading (ppm)	Moisture Content (%)	Strata Description (Depth & Elevation(feet))	Symbol	Sample Description (Classification System: Burmister)
													Bedrock (Continued)		
		C2	C	60	60	26.5						80			C2) White grading to light gray (at 33.8'), moderately hard to hard, fresh with slightly weathered fractures, moderately jointed, good quality siliceous DOLOMITE (RQD=80%). Very weak reaction to diluted HCl.
30													31.5 Bottom of Exploration at 31.5 ft	747.5	
35															
40															
45															
50															

Remarks
7) Stopped sampling S8 after 25 blows with no observed penetration.
8) Very little water return at beginning of C1, no return from 24' to end of core run. (Unable to approximate volume of water loss as reverse circulation was not used and water was pumped directly from the river.)

Notes:
1) Stratification Lines Represent Approximate Boundary Between Material Types, Transitions May Be Gradual.
2) 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. A.C. = After coring; N.R. = Not Recorded.
3) Sample Type Coding: A=Auger, C=Core, D=Driven, G=Grab, PS=Piston Sampler, SS=Split Barrel (Split Spoon), ST=Shelby Tube, Geo = GeoProbe, V=Vane, WOR/H=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%

Boring No.: B-2

ABUTMENT NO. 1
BOTTOM OF FOOTING
EL. = 772.68 FT

ESTIMATED PILE TIP
EL. = 758 FT +/-

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BORING LOG
Project Name
VTR Bridge #79
East Dorset, Vermont

Boring No.: B-3
Page No.: 1 of 1
File No.: 837-27
Checked By: JAG

Boring Company: TransTech Drilling Services
Foreman: John Leonhardt
GeoDesign Rep.: Jacob Wimett
Date Started: January 13, 2009 Date Finished: January 13, 2009
N. Coordinate: 267921 E. Coordinate: 1504359
Ground Surface Elevation (feet): 778
Station: Offset: ft

	Casing:	Sampler:
Type:	Flush	SS
I.D.:	3.0 in.	1.38 in.
Hammer Wt.:	300 lbs	140 lbs
Hammer Fall:	24 in.	30 in.
Rig Type:	CME 75	
Hammer Type:	Automatic	

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
1/13/09	5.0	773.0	Wet sample.

Depth (ft)	Casing Blows/ft	Sample Info: Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval: 0 - 6	6 - 12	12 - 18	18 - 24	PID Reading (ppm)	Moisture Content (%)	Strata Description (Depth & Elevation(feet))	Symbol	Sample Description (Classification System: Burmister)
		S1	SS	24	13	0	1	3	2	2			Fill		S1) Loose, black, fine to coarse SAND, some Silt, little fine Gravel, trace coal ash, moist.
		S2	SS	24	6	2	3	4	2	1					S2) Loose, similar to S1 with tan.
5													5		
		S3	SS	24	5	5	5	7	9	6			Silty Sand & Gravel With Wood Pieces. 773.0		S3) Medium dense, black/gray, fine to coarse SAND and SILT, little fine to coarse Gravel, trace wood, wet with brown banding.
		S4	SS	18	4	7	5	4	5						S4) Loose, brown, fine to coarse SAND and fine to coarse Gravel, little Silt, trace wood, wet.
10													9		
		S5	SS	24	9	10	10	11	16	22			Silty Sand And Gravel 769.0		S5) Dense, tan, fine to coarse GRAVEL and fine to coarse SAND, trace Silt, wet.
		S6	SS	18	1.5	12	12	6	4						S6) Loose, similar to S5. (possible roller bit cuttings).
15													15		
		S7	SS	23	5	15	2	5	21	30/5"			Silty Sand & Gravel With Wood Pieces. 763.0		S7) Medium dense, orange, brown, fine to coarse SAND and WOOD, little fine Gravel, trace Silt, wet. (Fluid consistency).
		C1	C	9	9	17	C	O	R	E	56		16.9 Bedrock 761		C1) White, hard, fresh with slightly weathered fractures, closely jointed, fair quality siliceous DOLOMITE (RQD=56%). No reaction to diluted HCl.
													17.78 Bottom of Exploration at 17.8 ft 760.2		
20															
25															

Remarks
1) Ground surface elevation estimated by GeoDesign personnel in the field from a site plan with elevation points provided by VHB.
2) Wash-drive drilling methods used.
3) Samples S4 and S6 drove 18" due to reduced hammer stroke.
4) Stopped sampling S7 after 25 blows with no observed penetration.
5) Terminated borehole (Core C1) at 17.78' due to crooked hole. Rods became pinched in the casing while attempting to advance C1.

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3) Sample Type Coding: A=Auger, C=Core, D=Driven, G=Grab, PS=Piston Sampler, SS=Split Barrel (Split Spoon), ST=Shelby Tube, Geo = GeoProbe, V=Vane, WOR/H=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%

Boring No.: B-3

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: DORSET
PROJECT NUMBER: WCRS(8)

FILE NAME: z08g224bor log2.dgn
PROJECT LEADER: A.P. GUYETTE
DESIGNED BY: M.A. COLGAN
BORING LOGS (2 OF 3)

PLOT DATE: 4/10/2014
DRAWN BY: GEODESIGN
CHECKED BY: S.E. BURBANK
SHEET 14 OF 33