

PROJECT: VHB/ LIMEKILN BRIDGE/VT										RECORD OF BOREHOLE B-2	
PROJECT LOCATION: S.Burlington/Colchester VT										BORING LOCATION: See Figure	
PROJECT NUMBER: 993-6856										BORING TIME: 0730/06-24-99 to 1010/06-24-99	
BORING TIME: 0730/06-24-99 to 1010/06-24-99										DATUM: Local Datum	
DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE				SAMPLES				SAMPLE DESCRIPTIONS AND BORING NOTES	
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.		
0				Elev. 0.00	NA	NA	NA	NA	NA	0.0 - 1.3 bgs. Dark brown to black SILT, little to some sand and organic matter, moist.	
					NA	NA	NA	NA	NA	1.3-4.0 Bedrock - Highly weathered MARBLE	
5	4" Roller-bit - NX Rock Coring			4.00						See corehole log B-2 for continuation.	
15										See corehole log for continuation.	
DRILL RIG: MOBILE B-47										WEIGHT OF HAMMER: 140 lbs	
DRILLING CONTRACTOR: Con - Tec Inc.										DROP: 30 inches	
DRILLER: R. McGlashan										SHEET 1 OF 1	
LOGGED: M. Zarenski										CHECKED: MZ	
										DATE: 08/11/99	

PROJECT: VHB/ LIMEKILN BRIDGE/VT										RECORD OF BOREHOLE B-3		
PROJECT LOCATION: S.Burlington/Colchester VT										BORING LOCATION: See Figure		
PROJECT NUMBER: 993-6856										BORING TIME: 1325/06-22-99 to 1620/06-22-99		
BORING TIME: 1325/06-22-99 to 1620/06-22-99										DATUM: Local Datum		
DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE				SAMPLES				SAMPLE DESCRIPTIONS AND BORING NOTES		
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.			
0				Elev. 0.00			1	D.O.	3-5-5-8	10	.75/2.0	0.0 - 0.75' SHIF FILL consisting of block SILT, trace sand and gravel, moist. 0.75 - 2.0' bgs No Recovery Refusal @3bgs (Bedrock).
5	4" Drive & Wash - NX Rock Coring			3.00								Bedrock @ 3.0' bgs.
15												See corehole log B-3 for continuation.
DRILL RIG: MOBILE B-47										WEIGHT OF HAMMER: 140 lbs		
DRILLING CONTRACTOR: Con - Tec Inc.										DROP: 30 inches		
DRILLER: R. McGlashan										SHEET 1 OF 1		
LOGGED: M. Zarenski										CHECKED: MZ		
										DATE: 08/11/99		

PROJECT: VHB/ LIMEKILN BRIDGE/ VT										RECORD OF BOREHOLE B-4		
PROJECT LOCATION: S.Burlington/Colchester VT										BORING LOCATION: See Figure		
PROJECT NUMBER: 993-6856										BORING TIME: 0830 / 06-22-99 to 1150/ 06-22-99		
BORING TIME: 0830 / 06-22-99 to 1150/ 06-22-99										DATUM: Local Datum		
DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE				SAMPLES				SAMPLE DESCRIPTIONS AND BORING NOTES		
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.			
0				Elev. 0.00			1	D.O.	1-2-3-4	5	0/2.0	0-2' No Recovery in split spoon - material is a recently reworked FILL consisting of silt, some sand and gravel, few cobbles.
5				4.50			2	D.O.	3-3-3-4	6	1.5/2.0	4.0-4.5' No Recovery, possible FILL.
10	4" Drive & Wash - NX Rock Coring			8.00								4.5-6.0' Firm yellow brown SILT some fine sand, trace gravel, trace clay, Moist.
15												Bedrock @ 8 bgs.
DRILL RIG: MOBILE B-47										WEIGHT OF HAMMER: 140 lbs		
DRILLING CONTRACTOR: Con - Tec Inc.										DROP: 30 inches		
DRILLER: R. McGlashan										SHEET 1 OF 1		
LOGGED: M. Zarenski										CHECKED: MZ		
										DATE: 08/11/99		

PROJECT: VHB/LIMEKILN BRIDGE/VT										RECORD OF ROCK COREHOLE B-2		
PROJECT LOCATION: LIMEKILN, VT										BORING LOCATION: See Figure		
PROJECT NUMBER: 993-6856										BORING TIME: 06-24-99/0730 to 06-24-99/1010		
BORING TIME: 06-24-99/0730 to 06-24-99/1010										DATUM: Local Datum		
DEPTH SCALE FEET	BORING METHOD	CORE DESCRIPTION				RUN INFORMATION				DISCONTINUITIES		
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.			
4.0				Elev. 4.00			1					4.0-6.5 Highly weathered very closely jointed pinkish-gray very fine grained, oxidized LIMESTONE or low grade MARBLE. The rockcore is completely fractured with no full diameter core. All fracture surfaces contain iron or manganese staining and show signs of weathering. Many fractures appear near vertical. Some core pieces show signs of reheated fractures. Depth of some fractures may be approximate.
6.3				6.30			2					6.3-10.0 Moderately weathered close to very closely jointed pinkish-gray very fine grained, oxidized LIMESTONE or low grade MARBLE. Most fractures surface contain Fe or Manganese staining and show signs of weathering. No signs of vertical fracturing except for from 6.3-7.0 which may contain vertical fractures. Many reheated fractures throughout core mostly aligned with major joint orientation.
10.0				10.0			3					10.0-14.0 Highly weathered very closely jointed pinkish gray very fine grained, oxidized LIMESTONE or low grade MARBLE. The rockcore is almost completely fractured with very few pieces of full diameter core. Most fractures show signs of iron or manganese staining and weathering. Many fractures are re-heated.
14.0	4" roller-bit - NX coring to 14' bgs.			14.0			4					End coring @ 14' bgs.
DRILL RIG: MOBILE B-47										TOTAL LENGTH CORED: 18'		
DRILLING CONTRACTOR: Con-Tec Inc.										BITS USED: 1		
DRILLER: R. McGlashan										SHEET 1 OF 1		
LOGGED: M. Zarenski										CHECKED: PCI		
										DATE: 04/28/05		

PROJECT: VHB/LIMEKILN BRIDGE/VT										RECORD OF ROCK COREHOLE B-3		
PROJECT LOCATION: S.Burlington/Colchester VT										BORING LOCATION: See Figure		
PROJECT NUMBER: 993-6856										BORING TIME: 06-22-99/1432 to 06-22-99/1620		
BORING TIME: 06-22-99/1432 to 06-22-99/1620										DATUM: Local Datum		
DEPTH SCALE FEET	BORING METHOD	CORE DESCRIPTION				RUN INFORMATION				DISCONTINUITIES		
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.			
3.4				Elev. 3.4			1					3.4-10.5 Fairly to slightly weathered, closely jointed, grayish with pinkish banding very fine grained (crystalline) partly oxidized MARBLE. Reheated fractures, some nearby vertical occur throughout. Many open fractures contain Fe or Mn staining.
10.5	4" Drive & Wash to 3.4 bgs then NX coring to 13.4 bgs.			10.5			2					10.5-13.4 Slightly weathered closely jointed very light gray with yellowish banding, crystalline, partly oxidized MARBLE. Open fractures between 11.4 and 12.4 contain granular calcite and these zones appear more weathered than the rest of the rock mass. No signs of reheated fractures. Some open fractures contain Fe or Mn staining.
13.4				13.4			3					End corehole @ 13.4 bgs.
DRILL RIG: MOBILE B-47										TOTAL LENGTH CORED: 18'		
DRILLING CONTRACTOR: Con-Tec Inc.										BITS USED: 1		
DRILLER: R. McGlashan										SHEET 1 OF 1		
LOGGED: M. Zarenski										CHECKED: PCI		
										DATE: 04/28/05		

PROJECT: VHB/LIMEKILN BRIDGE/VT										RECORD OF ROCK COREHOLE B-4		
PROJECT LOCATION: LIMEKILN, VT										BORING LOCATION: See Figure		
PROJECT NUMBER: 993-6856										BORING TIME: 06-22-99/0955 to 06-22-99/1150		
BORING TIME: 06-22-99/0955 to 06-22-99/1150										DATUM: Local Datum		
DEPTH SCALE FEET	BORING METHOD	CORE DESCRIPTION				RUN INFORMATION				DISCONTINUITIES		
		USCS	GRAPHIC LOG	ELEV. DEPTH	NUMBER	TYPE	BLOWS / 6 INCHES	N	REC. VIT.			
8.5				Elev. 8.5			1					8.5-18.0 Fairly to slightly weathered, close to moderately closely jointed gray, crystalline LIMESTONE or low grade MARBLE. Minor staining on fracture surfaces. Very few reheated fractures.
18.0	4" Drive & Wash to 8.4 bgs then NX coring to 18.4 bgs.			18.0			2					18-18.4 Slightly weathered closely jointed pinkish gray crystalline MARBLE. Fe or Mn staining on some open fractures. No evidence of re-heated fractures.
18.4				18.4			3					End corehole @ 18.4 bgs.
DRILL RIG: MOBILE B-47										TOTAL LENGTH CORED: 18'		
DRILLING CONTRACTOR: Con-Tec Inc.										BITS USED: 1		
DRILLER: R. McGlashan										SHEET 1 OF 1		
LOGGED: M. Zarenski										CHECKED: PCI		
										DATE: 04/28/05		

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (92)

**NOTE:**  
THE SUBSURFACE EXPLORATIONS SHOWN ON THIS SHEET ARE IN ENGLISH UNITS AS RECORDED BY GOLDER ASSOCIATES 1999.

**VHB Vanasse Hangen Brustlin, Inc.**

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of COLCHESTER-SOUTH BURLINGTON	Bridge No. 6
Highway No. TH 4/3	Log Sta. Surv. Sta.
TH 4/3 OVER WINOOSKI RIVER & N.E. C.R.	
<b>BORING LOGS (2 OF 9)</b>	
Designed By GOLDER	Drawn By M. M. LANDREY
Checked By Date	Bridge Design Supervisor
M. A. COLGAN 4/05	S. M. GUNN Date 4/05
PROJECT COLCHESTER-SOUTH BURLINGTON	PROJECT NO. BRM 5600 (6) S C/2
I.G.C. Info.	
Bridge Sheet No. ZD139LG2	Sheet 38 of 124