

FROEHLING & ROBERTSON, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS ENGINEERS • LABORATORIES "OVER ONE HUNDRED YEARS OF SERVICE"

N.C.D.O.T. GEOTECHNICAL UNIT

4. Drilling Fluid: Water

BORING LOG

ROJE	CT NO.	8.23	12601			ID. E	3-3865			CC	YTNUC	John	ston			GEOLOGI	ST C. Baldwin	
	ESCRIP		Bridge					ver on S)2					т	***************************************	GROUND WA	TER (ft)
		B3-A						22+33				ET 11'			ALIGN	MENT -L-		√A**
	R ELEV			NORT				****			L	ING 2					24 HR.	3.0
	DEPTH			DRILL	MAC			55 Trac		RILL					A/NQ3 (HAMMER TYPE Auto	matic
	TARTE		26/03			COMP		D 6/30			SURF			DEP	TH N/	Α	,	
(ft)	DEPTH (ft)	0.5ft	0.5ft	0.5ft	Q.	20	40 40	S PER F		80	100	SAMP.		0 G	nvi sanarakan kan	SOIL AN	ID ROCK DESCRIPTION	
101.1ft							Grou	ınd Surf	ace						101.1ft			0.0
100-	0.0	1	WOH	1	1.							SS-17	33.3%		98.6ft	Brownis	-ALLUVIAL- h-gray, fine to coarse sandy	
1	- 3.5] :/:								Y		- 98.011	CLAY	h-gray, fine to coarse sandy (A-6(7)), with some silt. -RESIDUAL-	
-	- - 5.9	1	1	2	.•3		· · · ·			: :			M		95.2ft	Light redd	ish-brown & gray, SILT (A-4), some fine sand & clay.	5.9
95 -	_	60/0.1'			1:5						60/0.1				_		I-CRYSTALLINE ROCK-	
1	-				: :		· · · ·	· · · · ·							<u>-</u> -	Gray	, slightly weathered, hard SIC METAVOLCANIC.	
90~	_				: :		 		 			1			_	FEL	SIC METAVOLCANIC.	
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75 -	-				: :		 . <i>.</i>		 						- 70 40			
-	_		 	 	 							+	-		73.1ft			28
-	-														-	in NC	terminated at elev. 73.1 feet DN-CRYSTALLINE ROCK LSIC METAVOLCANIC).	
-	-														<u> </u>	(, _,	LOIG WIL TAVOLCANIC).	
	_			1											-	Matan		
-	_					•									_	Notes: 1) Auger refus	al at 5.9'.	
															<u> </u>	 Coring bega Boring offse 	an at 6.0'. et due to inaccessible	
	_												l		F	proposed bo	ring location.	
-															<u>-</u>	** 0 hr. water le introduced fo	evel not measured due to wat or coring.	er
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Sheet 1 of 1 DATE: 06/26-30/2003 **CORE BORING REPORT** PROJECT: 8.2312601 I.D. NO.: B-3865 BORING NO.: B3-A GEOLOGIST: Chris Baldwin DESCRIPTION: Bridge No. 212 over Little River on SR 1002 SENIOR DRILLER: J.W. Gilchrist, Jr. COUNTY: COLLAR ELEVATION: 101.1 ft TOTAL DEPTH: 28.0 ft DRILLING ASSISTANT: M.W. Renza Drill Run REC RQD Elev. Depth Rate (ft) (ft) FIELD CLASSIFICATION AND REMARKS Length Sample (ft) (ft) (ft) 95.1 ft (6.0 ft) 95.1 6.0 5:59 4.0 4.0/4.0 1.1/4.0 NCR-6.0-28.0 ft Gray, slightly weathered, hard Felsic Metavolcanic Rock 5:55 100% 28% Close to moderately close fracture spacing. 5:49 5:51 91.1 10.0 91.1 10.0 3:27/0.5 ft 3.5/3.5 1.7/3.5 5:52 100% STRATA REC.=98% STRATA RQD=36% 5:50 5 joints at 0° 1 joint at 10° 5:51 7 joints at 20° 17 joints at 30° 87.6 | 13.5 | 3:26/0.5 ft 4.5 4.5/4.5 | 1.1/4.5 8 joints at 40° 2 joints at 50° 5:51 100% 2 joints at 60° 24% 2 joints at 70° 1 joint at 90° 5:55 5:50 5:59 83.1 18.0 83.1 18.0 5:52 5.0 5.0/5.0 2.6/5.0 5:55 52% 100% 5:59 5:55 6:00 23.0 78.1 78.1 23.0 5:56 5.0 4.6/5.0 1.4/5.0 5:54 92% 28% 5:59 5:57 5:56 73.1 73.1 ft (28.0 ft) Coring terminated at elevation 73.1 ft DRILLING EQUIPMENT: 1.) Missing core from 27.6-28.0 was lost down hole and was unretrievable CME - 55 Track Rig with automatic hammer. 2.) New lifter was installed upon completion of hole HOLE ADVANCEMENT: . HSA from 0.0 - 6.0 feet using 2.25" hollow stem augers. . Casing w/ advancer set at 6.0 feet. . Cored using NQ3 w/SICB and a Series 6 diamond impregnated bit from 6.0 - 28.0 feet.