

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

SHEET 19 OF 20

Str. W.	1111							:	·					i eis		SHE	ET 19 OF 2	29	
PROJECT NO. 8.2721501 ID. B-3808								C	COUNTY Avery GEOLO							GIST D. Goodnight/P. Weaver			
SITE D	ESCRI	PTION	Bridge	e No. 58	3 Over	Henso	on Creek	on SR1	126 (H	enson C	reek R	oad)					GROUND	WATER	(ft
BORIN	IG NO.	EB2-E	3	BC	DRING	LOCA	ATION	17+42		OFFS	SET 12	ft RT		ALIGN	IMENT -L-		0 HR.	NM	i
COLLAR ELEV. 3176.7 ft NORTHIN						847	014.49	EAST	ING 1	09914	1.13			24 HR.	6.0).			
OTAL	DEPT	H 34.1	ft	DRILL	L MAC	HINE	Mobile	B-57	DRIL	L METH	IOD V	Vash F	Rotar	у		HAMN	MER TYPE 1	40 lb. Ma	an'
ATE	START	ED 12	2/22/03			COMI	PLETED	12/22/0	3	SURF	ACE V	VATER	R DE	PTH NA		·	, .		
LEV.	DEPTH	BL	ow co	UNT	Τ	:	BLOWS	PER FOO)T		SAMP.	V /							
(ft)	(ft)	0.5ft	0.5ft	0.5ft	ļ	20	40	60	80	100	NO.	MOI	0 G		SOIL AN	D ROCK	DESCRIPTION	١	
	:																		
176.7 175.7.	- 1.0	<u> </u>	ļ <u>.</u>		<u> </u>							<u> </u>		3,176.7	DOADWAY E	ABANKA	MENT FILL: Lo	200	_
-	-	5	4	4	: :	 18 · · ·				· · · ·	SS-8	М			Brown, Silty, C	coarse to	Fine SAND an		
73.2	3.5	6	6	17	::¹	·]:						М			Gravel with a ROADWAY El		CLAY MENT FILL: Me	dium	-
170.7	6.0] : :	•	23					Y	Leg		Dense, Brown Coarse to Fine		ous, Gravel and	i Silty,	
- 168.21	- - 8.5	4	8	16			24 · · ·	•••••				W	100	_ . 3,168.7	000.00 10 1 111	, 0, 15			
00.2	0.0	55	45/0.1	1	: :	<u>.</u>		• • •, •	• • • •	100/0.6		1	N	3,167.6	WEATHERED Brown Biotite		White, Grey, a	nd /	_
- 1	-	"			: :	 				• • • •			أريا	•	CRYSTALLIN	E ROCK	: Brown and Lig	int to	
7	-					 								•	Moderately We	eathered	Moderately Sev I, Moderately Ha	rd to	
1	-				: :	 								3,161.6	Hard, Moderat Gneiss with Vo	ely to W ery Close	ell Foliated Biot e to Close Fract	ite ure –	
	- -						• • • •					٠.	괄	. 1	Spacing WEATHERED				
57.6	- - 19.1				: :			• • • • •	• • • •						Weathered Ro				
		60	40/0.1							109/0:6			긜						
	-			14.1		 							17	3,155.4	CRYSTALLIN	ROCK	: Brown and Lig	iht to	-
1	•					 				• • •			7	3,153.5	Dark Grey with Weathered. M	n White, edium H	Slightly to Mode ard to Moderate	rately Iv Hard, [_
1	• •				: :										Moderately Fo	liated Bid	otite-Mica Gneis acture Spacing		
†	-			•		• • • •	,			• • •			<u> </u>	3.148.8	CRYSTALLIN	ROCK	: Light and Darl	Grey	
1	•												: /		with White, Sli Weathered, H	ard, Mod	erately to Slight	ly	
+	•														Foliated Biotite Fracture Spac	Gneiss	with Moderately	/ Close	
7	-					• • • •								3,143.6	CRYSTALLIN	ROCK	Brown and Lig		_
1	-												1	3,142.6	Grey, Moderat Medium Hard I	ery Seve Biotite G	rely Weathered, neiss with Very	Close	
#	•	·		1						1.					Fracture Spac		Light and Dari	k Grev	
1									1			1.			with White, Slig	to V	ery Slightly erately to Slight	- 1	
1	•												Ŀ	- 1	Foliated Biotite	Gneiss	with Moderately		
- 1	-												F	- 1	Fracture Spaci	ROCK:	Brown and Lig	ht Grey,	
‡	-											., .		3	Moderately Se	vere to N	loderately Weat iotite Gneiss wit	hered,	
#				.											Close Fracture	Spacing	3		
+	•														with White, Ve	ry Slightl	Light and Dark ly Weathered,	i	
ł									* * :						Moderately Ha Slightly Foliate	rd to Har d Biotite	rd, Moderately to Gneiss with	- 1	
Ŧ	•			.					100			1 3 4	F	ſ	Moderately Clo	se Fract	ure Spacing levation 3142.6	feet in	
7												1	F	- (Crystalline Ro	k: Biotit	e Gneiss	IGG! (II)	
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<u> </u>									ing and a second				t	N	ote: Drill F	mid = C	Creek Water A	lone	
+													F	•	Joe. Dilli	u - C	ACON TIGHT		1
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+			1						1				+	• • • • •		6 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1		Section 1	



N.C.D.O.T. GEOTECHNICAL UNIT CORE BORING REPORT

SHEET 19 OF 29

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PROJE	CT NO	8.27	721501			ID. B-3	808			CO	UNTY Avery GEOLOGIST D. Goodnight/P. Weaver							
SITE D	ESCRIF	PTION	Bridge	No. 58	Over	Henson C	Creek c	on SR1	126	(Hen	son Creek Road) GROUND WATER (ft)							
BORIN	G NO.	EB2-	В	ВО	RING	LOCATION 17+42					OFFSET 12ft RT ALIGNMENT -L- 0 HR. NM							
COLLA	R ELE	/. 317	76.7 ft	NORT	HING	847014	.49			I	EASTING 1099141.13 24 HR. 6.0							
TOTAL	DEPTH	1 34.	1 ft	DRILL	MAC	HINE M	obile B	3-57	DI	RILL I	METHOD Wash Rotary HAMMER TYPE 140 lb. M							
DATE	STARTE	D 1	2/22/03	·		COMPLE	ETED	12/22/	03	{5	SURFACE WATER DEPTH NA							
CORE	SIZE +	IQ				TOTAL F	RUN 2	24.4 ft		1	DRILLER B. Shull							
ELEV.	DEPTH	RUN	DRILL		UN	SAMP.	STF REC.	ATA	Ľ		DECODISTION AND DEMANDO							
(ft)	(ft)	(ft)	RATE (Min/ft)	REC. (ft)%	RQD (ft)%	NO.	(#)	RQD (ft) %	0 G		DESCRIPTION AND REMARKS							
											Posin Coring @ 0.4 ft							
3,167.6	9.1	5.0	2:29	(4.0)	(0.4)		(5.0)	(0.9)	7	3,16	Begin Coring @ 9.1 ft ORYSTALLINE ROCK: Brown and Light to Dark Grey with White, Moderately 9.1							
0,.0			3:17 4:45	80%	8%		83%	15%	ابريا		Severely to Moderately Weathered, Moderately Hard to Hard, Moderately to Well Foliated Biotite Gneiss with Very Close to Close Fracture Spacing							
3,162.6	14.1		3:05 2:47						$\langle \cdot \rangle$		Majority of fracture faces heavily iron stained							
		5.0	2:56	(1.0)	(0.5) 10%		(0.0)	(NA)	5	- 3,16°	Partially healed to open near vertical fracture 9.1 feet to 10.1 feet							
			0:30 1:11	20%	10%		0%	(10.0)		- .	Fractures below 13.3 feet @ 35° to 45° parallel to foliation Isolated narrow (< 0.1 foot thick) severely weathered and soft zones							
3,157.6	19.1		1:41		ļ				S	<u> </u>	throughout WEATHERED ROCK: Core Loss in Weathered Rock - Biotite Gneiss							
3,157.0	19.7	4.4	V=100/0. 1:23/0.4		(1.0) 23%			(0.0)	\supset	3,15								
3,152.6	24.1		1:08 2:59				(1.6) 84%	(0.0) 0%		- 3,153								
3,152.0	24.1	5.0	6:00	(4.2)	(3.7)	 	(4.7) 100%	(4.7) 100%			Foliated Biotite-Mica Gneiss with Very Close to Close Fracture Spacing							
			3:45 3:45	』84%	74%					 3,148	Majority of jts @ 45° to 50° parallel to foliation with heavy iron staining Quartz seam from 21.3 feet to 21.6 feet 27.9							
3,147.6	29.1		4:10 4:38	(1.5)	10.00		(0.4)	(0.0)	7	- 3,147	ODVOTALLING DOOK 1:-LLIDLO							
		5.0	4:43 4:04	(4.3) 86%	(3.8) 76%		(2.8)	(2.8)		- 3.144	Moderately Close Fracture Spacing							
			4:33 4:31				100% (0.5)	100% (0.0)		- 3,143	3.6 its @ 10° to 20° 33.1							
3,142.6	34.1		3:39 1:14	-		-	\ <u>42%</u> (1.0)	(1.0)		- 3,142 -	Weathered, Medium Hard Biotite Gneiss with Very Close Fracture Spacing							
			3:46	_			100%	100%		_	CRYSTALLINE ROCK: Light and Dark Grey with White, Slightly to Very Slightly Weathered, Hard, Moderately to Slightly Foliated Biotite Gneiss with							
		¥.		1						-	Moderately Close Fracture Spacing							
											1 it @ 30° CRYSTALLINE ROCK: Brown and Light Grey, Moderately Severely to							
										_	Moderately Weathered, Soft to Medium Hard Biotite Gneiss with Very Close Fracture Spacing							
I		* .								_	CRYSTALLINE ROCK: Light and Dark Grey with White, Very Slightly							
										-	Weathered, Moderately Hard to Hard, Moderately to Slightly Foliated Biotite <u>Gneiss with Moderately Close Fracture Spacing</u>							
N											Coring Terminated at Elevation 3142.6 feet in Crystalline Rock: Biotite Gneiss							
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