

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

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		IT NO3						OUNTY				GEOLOGIST D. Goodnight/P. Weaver
ITE D	ESCRI	PTION	Bridge	No. 13	on I-	-77 SBL Over Yadkin F	liver, Yad	lkin Val	ley RR,	, and N	IC 26	68 GROUND WATER (ft)
ORIN	IG NO.	B4-B (S	ВС	RINC	G LOCATION 29+65		OFFS	ET 31	ft RT		ALIGNMENT -SBL- 0 HR. 12.0
COLLAR ELEV. 877.4 ft NORTHING					HING	3 915151.60	EASTING 1462999.02				24 HR. 11.8	
OTAL	DEPTI	-1 46.4	ft	DRILL	MA	CHINE CME 850	DRILI	LMETH	OD V	Vash R	otary	y/HQ Core HAMMER TYPE 140 lb./Autor
ATE	STARTI	E D 3/3	31/04			COMPLETED 4/1/0	4	SURF	ACE V	VATER	DEF	PTH NA
LEV.	DEPTH	BLC	ow co	UNT		BLOWS PER FO			SAMP	. 🔻	LO	SOIL AND ROCK DESCRIPTION
(ft)	(ft)	0.5ft	0.5ft	0.5ft	0	20 40 60	80	100	NO.	MOI		COLETING ROCK BECOMM TION
			,									·
377.4												
76.4	- 1.0				 	I			╁───	 		ALLUVIAL: Soft to Stiff, Brown, Fine Sandy
73.9	3.5	4	4	5	· :	9				М		SILT with a Little Clay with a Trace of Mica
	- 0.0	WOH	2	2		4				М		F
71.4	6.0	2	2	3	{ : {				SS-13	23.2%		- -
68.9	8.5								00 10	20.270		<u> </u>
•	Ė	3	3	3	:	96.				M	· · · <u> </u>	E
	F									V		
63.9	13.5	13	18	23	I				SS-14	- w	000	
	‡	13	10	23					33-14	- W	000	Fine to Coarse SAND
.	<u> </u>				: :							860.4 1 WEATHERED ROCK: Grey and Brown,
58.9	18.5	35	50	50/0.3	┨::						\$	Severely Weathered, Soft to Medium Hard,
55.8	21.6				: :			100/0.8				Biotite-Mica Schist with Very Close to Close Fracture Spacing
-		24	76/0.4	1	1::			100/0.9				
	‡											-
	‡				: :							851.0
-	<u> </u>				: :							CRYSTALLINE ROCK: White, Brown, and 849.0 Grey; Moderately Severely to Moderately
	İ				: :						<u> </u>	Weathered; Medium Hard; Biotite Schist with Very Close to Close Fracture Spacing
	±				: :			· · · ·				CRYSTALLINE ROCK: Grey with White, Moderately to Slightly Weathered, Medium to
_	Ŧ				1::							 Moderately Hard, Biotite Schist with Very
	‡				::							Close to Close Fracture Spacing 840.8
-	‡				::						7	CRYSTALLINE ROCK: Grey with Pink and
	‡											White, Slightly to Very Slightly Weathered Moderately Hard to Hard, Biotite Schist with
	‡				: :							Close to Moderately Close Fracture Spacing
-	‡				::							[-
	‡				: :						Γ'	
		 		 	 ` ` `	· · · · · · · · · · · · · · · · · · ·	• • • • •	<u> </u>	 	1	1	Coring Terminated at Elevation 831.0 feet in
	‡										<u> </u>	Crystalline Rock: Biotite Schist
	<u> </u>											Note: Bentonite slurry used as drilling fluid; Density = 63.0 lbs./cu. ft.
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CORE BORING REPORT

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PROJECT NO. 34209.1.1 ID No. 1-4025/										
SITE D	ESCRIP'	TION	Bridge	No. 13	on I-7	77 SBL OV	er Yac	ikin Ri	iver,	, Yadkin Valley RR, and NC 268 GROUND WATER (ft)
		B4-B	т			LOCATIO		9+65		OFFSET 31ft RT ALIGNMENT -SBL- 0 HR. 12.0
	R ELEV			NORTH						EASTING 1462999.02 24 HR. 11.8
	DEPTH		l	DRILL	MAC		ME 85			DRILL METHOD Wash Rotary/HQ Core HAMMER TYPE 140 lb./Auton
	STARTE		/31/04			COMPLE				SURFACE WATER DEPTH NA
	SIZE H		DRILL	l Ri	UN	TOTAL R		5.7 ft		DRILLER R. Toothman
ELEV. (ft)	DEPTH (ft)	RUN (ft)	RATE (Min/ft)	REC. (ft) %	RQD (ft) %	SAMP. NO.	REC. (ft) %	RQD (ft) %	L O G	DESCRIPTION AND REMARKS
										Begin Coring @ 19.8 ft
857.6 855.8	19.8 21.6	1.8	3:28 2:20/0.8		(NA))	(1.3)	(NA)	S.	WEATHERED ROCK: Grey and Brown, Severely Weathered, Soft to Medium Hard, Biotite-Mica Schist with Very Close to Close Fracture Spacing
854.9	22.5	4.1	N=100/0. 0:18/0.1	(1.5)	(NA)	, 	12370			4
050.0	20.0		5:10 5:29	37%					3	
850.8	26.6	5.0	5:51 7:07	(5.0)	(1.1)		(2.0)	(0.4)	17	851.0 2 CRYSTALLINE ROCK: White, Brown, and Grey; Moderately Severely to
845.8	31.6		6:28 6:17 5:58	100%	22%		(8.2) 100%	20% (2.2) 27%	17	849.0 Moderately Weathered; Medium Hard; Biotite Schist with Very Close to Close Fracture Spacing Numerous feldspar porphyroblasts Very broken 27.9 feet to 28.3 feet
		5.0	4:40 5:37	(5.0) 100%	(1.5)				(/)	Majority of jts @ 10° to 20° with heavy iron staining
			9:51 4:22	100%	3076	'			1/	2 its @ 40° to 50° with heavy iron staining CRYSTALLINE ROCK: Grey with White, Moderately to Slightly Weathered,
840.8	36.6	5.0	5:47	(5.0)	(4.1)		(9.8)	(9.2)	$\left\{ ^{\prime }\right\}$	Medium to Moderately Hard, Biotite Schist with Very Close to Close Fracture Spacing
		3.0	9:54 8:41	100%			100%	(8.2) 84%		Numerous feldspar porphyroblasts Numerous partially healed fractures
835.8	41.6		8:32 5:23						(1)	Majority of its @ 10° to 20° with some iron staining 1 jt @ 30° and 2 its @ 50°
000.0	41.0	4.8	9:08	(4.8)	(4.1)				11	Very broken 31.6 feet to 32.1 feet CRYSTALLINE ROCK: Grey with Pink and White, Slightly to Very Slightly
831.0	46.4		7:13 5:31	100%	85%				(1)	Weathered Moderately Hard to Hard, Biotite Schist with Close to Moderately Close Fracture Spacing 831.0 4
			8:28 8:05 12:06/0.8	3						Abundant white and pink feldspar porphyroblasts from 36.6 feet to 37.7 feet and 42.9 feet to 44.7 feet Scattered feldspar porphyroblasts through remainder Some epidote at 38.8 feet Majority of jts @ 10° to 20° 2 jts @ 70° Note: Run No. 6 cut short to allow retrieval of 0.2 feet of core not recovered from previous run Coring Terminated at Elevation 831.0 feet in Crystalline Rock: Biotite Schist
										Note: Bentonite slurry used as drilling fluid; Density = 63.0 lbs./cu. ft.
										Note: After Run No. 2, approximately 1 foot of rounded rock fragments were left in the bottom of the hole. The lifter could not catch these rock fragments and they could not be collected with a split-spoon because the rock stick-up was too high to allow the automatic hammer to swing over the anvil. Decision was made to core on through this material.
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