

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

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			4209.1		_L	025A COUNT			·	GEOLOGIST [	
					I-77 SBL Over Yadkin I						GROUND WATER (f
	G NO.			,l	G LOCATION 28+50		SET 261			LIGNMENT -SBL-	0 HR. NA
OLLA	R ELE\	<b>V.</b> 860	.8 ft	NORT	<b>G</b> 915027.61	EAS	TING 1	46296	4.46		<b>24</b> HR. NA
OTAL	DEPTH	<b>1</b> 37.4	ft	DRILL	CHINE CME 45 Skid	DRILL MET	HOD V	Vash R	otary/NO	Q Core HAN	IMER TYPE 140 lb./Mar
ATE S	TARTE	ED 4/	27/04		COMPLETED 4/29	/04 SUR	FACE V	VATER	DEPTH	4.8 ft.	
LEV.	DEPTH	BL	ow col	JNT	BLOWS PER F	OOT	SAMP.	V	L O	COIL AND DOG	CK DESCRIPTION
(ft)	(ft)	0.5ft	0.5ft	0.5ft	20 40 60	0 80 10	<sup>0</sup> NO.	моі		SOIL AND NOC	
60.8 60.8	0.0	9	11	6			<del>-</del>	l w	000 - 860 860	0.8 0.3ALLUVIAL: Loose, 7	an. Coarse to Fine
, <u> </u>									E	SAND with Gravel RESIDUAL: Very St	
<u>57.3</u> †	3.5	13	13	40			SS-8	19.7%		Saprolitic, Fine Sand	ly SILT with Rock
54.8	6.0	50	38	35	• • • • • • • • • • • • • • • • • • • •	<del></del>		w	000 - 85	5.3 Fragments RESIDUAL: Very De	ense, Tan, Silty, Fine to
52.3 <del> </del>	- 8.5	50	36	33		73		**	600	Coarse SAND	
#	•	14	86/0.4			100/0,9	•		85	WEATHERED ROCK	K: Brown, Grey, and
48.4	- - 12.4									White; Severely Wea Metamorphosed Gra	athered; Soft;
1	· · · · · · · · · · · · · · · · · · ·	60/0.2	1			60/0.2	)		5 84°	7.3 Close Fracture Spac	ing
	-			1						Tan, Slightly to Very	K: Grey with White and Slightly Weathered,
7									F/F	Moderately Hard to I Very Close to Close	Hard, Biotite Schist with Fracture Spacing
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Ŧ	_	<del>                                     </del>	1	<del>                                     </del>	• • • • • • • • • • • • • • • • • • • •		+	†	1 F 82		t Elevation 823.4 feet in
Ŧ	-								l F	Crystalline Rock: Bi	
7	-								l F	Note: River water al	one used as drilling fluid
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OP T					· · · · · ·					PAGE 1 OF 1				
										OUNTY Yadkin/Surry GEOLOGIST D. Goodnight				
				<del></del>					ver,	adkin Valley RR, and NC 268 GROUND WA	ATER (ft)			
	IG NO.					LOCATION		3+50		OFFSET 26ft LT ALIGNMENT -SBL- 0 HR.	NA			
COLLAR ELEV. 860.8 ft   NORTHING 915027.61										<b>EASTING</b> 1462964.46 <b>24 HR.</b>	NA			
										L METHOD Wash Rotary/NQ Core HAMMER TYPE 140 lb./Manu				
			/27/04			COMPLE				SURFACE WATER DEPTH 4.8 ft.				
CORE	SIZE N	1Q	T 5501	ТБ	UN	TOTAL F			<del></del>	DRILLER R. Toothman				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	REC.	RQD (ft)	SAMP. NO.	REC. (ft)	RATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS				
851.4	9.4	3.0	4:11	(0.9)	(NA)		(1.5)	(NA)	<u> </u>	Begin Coring @ 9.4 ft WEATHERED ROCK: Brown, Grey, and White; Severely Weathered; So	ft;			
848.4	12.4		3:50 2:44	30%			38%			Metamorphosed Granitic Rock with Very Close Fracture Spacing				
848.2	12.6	4.8	N=60/0.2 2:28/0.8 2:52 2:30		(1.2) 25%		(21.4) 90%	(8.2) 34%	57	Majority of material recovered consists of fragments of moderately hard to hard crystalline rock - metamorphosed granitic rock CRYSTALLINE ROCK: Grey with White and Tan, Slightly to Very Slightly	/			
843.4	17.4	5.0	3:06 8:11 4:51	(4.4)	(1.9) 38%	RS-3				Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Cli Fracture Spacing  Contains traces of mica	ose			
838.4	22.4	5.0	4:46 5:18 3:27	(4.7)	(2.4)					Majority of jts @ 10° to 20° 4 jts @ 30° 1 jt @ 70°				
833.4	27.4		7:50 3:30 3:32 3:20	J 94%	48%					Numerous partially healed low to high angle fractures Feldspar porphyroblasts are common Granitic 26.8 feet to 27.1 feet and 36.4 feet to 36.8 feet				
		5.0	4:08 6:32 2:37	(3.8) 76%	(1.4) 28%									
828.4	32.4	5.0	6:11 5:22 4:08 7:05	(4.9)	(1.3) 26%									
823.4	37.4		4:13 3:51 4:45							823.4	37			
			5:51 5:17	1						Coring Terminated at Elevation 823.4 feet in Crystalline Rock: Biotite Scr	nist			
				1						Note: River water alone used as drilling fluid				
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