



PROJECT NO. 8.2407901		ID. B-3704		COUNTY Wake		GEOLOGIST D. Goodnight							
SITE DESCRIPTION Br. 108 over Lower Barton's Cr. on SR 1834 (Norwood Rd.)							GROUND WATER (ft)						
BORING NO. B1-A (Revised)		BORING LOCATION 16+70.0		OFFSET 10.0 ft LT		ALIGNMENT -L-							
COLLAR ELEV. 269.60 ft		NORTHING 798603.11		EASTING 2100704.97		0 HR. 9.50							
TOTAL DEPTH 30.20 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual							
DATE STARTED 10/3/03		COMPLETED 10/3/03		SURFACE WATER DEPTH NA									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
269.6	0.0	3	1	2									269.6 0.00
266.1	3.5	12	12	17							SS-1	M	266.6 3.0 Alluvial: Very Loose, Brown, Micaceous, Silty, Coarse to Fine SAND with a Trace of Roots and Gravel (A-2-4)
263.1	6.5	60/2									SS-2	M	264.1 5.5 Residual: Medium Dense, Brown, Micaceous, Saprolitic, Silty, Coarse to Fine SAND (A-2-4)
259.4	10.2	25	75/5								SS-3		262.9 6.7 Weathered Rock: Brown, Biotite Schist
											SS-4		256.4 13.2 Weathered Rock: Severely to Moderately Severely Weathered, Soft to Medium Hard, Tan and Brown, Muscovite and Biotite Schist with Very Close Fracture Spacing
249.4	20.2	100/4									SS-5		250.2 19.4 Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with Moderately Close to Wide Fracture Spacing
													248.9 20.7 Weathered Rock: Severely Weathered, Soft, Brown, Biotite Schist with Very Close Fracture Spacing
													239.4 30.2 Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with Moderately Close to Wide Fracture Spacing
													239.4 30.2 Coring Terminated at 30.2 feet (Elev. 239.4) in Crystalline Rock (Biotite Schist) Drilling Fluid Properties: Water



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CORE SIZE HQ				TOTAL RUN 22.1 ft		DRILLER B. Shull				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 6.7 ft
262.9	6.7	3.5	1:31	(2.4)	(0.0)		(3.0)	(NA)		Weathered Rock: Severely to Moderately Severely Weathered, Soft to Medium Hard, Tan and Brown, Muscovite and Biotite Schist with Very Close Fracture Spacing
259.4	10.2		0.53	69%	0%		46%			
			1:51							2 joints at 20° 10 joints at 0-5° Several Mechanical Breaks
258.4	11.2	4.0	0.34/0.5			SS-4				
			1:25	(2.6)	(1.9)					Core Loss at 9.1-10.2 feet and 11.2-12.6 feet Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with Moderately Close to Wide Fracture Spacing
254.4	15.2		2:19	65%	48%		(6.2)	(6.1)		
			3:14	(4.2)	(4.2)		100%	98%		2 joints at 0-5° Weathered Rock: Severely Weathered, Soft, Brown, Biotite Schist with Very Close Fracture Spacing
249.4	20.2	5.0	2:40	84%	84%					
			2:50							Very Broken Core Loss at 19.4-20.2 feet and 20.6-20.7 feet Crystalline Rock: Moderately to Slightly Weathered, Moderately Hard to Hard, Gray, Biotite Schist with Moderately Close to Wide Fracture Spacing
249.0	20.6	4.6	3:06	(4.5)	(3.9)	SS-5	(0.0)	(NA)		
			0:50	98%	85%		0%	(8.9)		1 joint at 20° 1 joint at 50° Coring Terminated at 30.2 feet (Elev. 239.4) in Crystalline Rock (Biotite Schist) Drilling Fluid Properties: Water
244.4	25.2	5.0	1:30/0.6				100%	94%		
			4:16							1 joint at 20° 1 joint at 50° Coring Terminated at 30.2 feet (Elev. 239.4) in Crystalline Rock (Biotite Schist) Drilling Fluid Properties: Water
239.4	30.2		3:12	(5.0)	(5.0)					
			3:53	100%	100%					
			4:04							
			3:37							
			3:58							
			3:31							
			3:55							

NCDOT BORE SINGLE 07103015.GPJ NC DOT.GDT 10/15/03

NCDOT BORE SINGLE CRCPY015.GPJ NC DOT.GDT 10/15/03