



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

SHEET 1 OF 1

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-B		BORING LOCATION 16+79.0		OFFSET 8.0 ft RT	ALIGNMENT -L-	0 HR. 0.80	24 HR. 2.60						
COLLAR ELEV. 264.90 ft		NORTHING 798584.59		EASTING 2100698.82									
TOTAL DEPTH 30.60 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual							
DATE STARTED 6/23/03		COMPLETED 6/23/03		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
264.9	0.0	1	2	1									264.9 0.00
261.7	3.2	5	100/5										261.2 3.2 260.7 3.7
254.2	10.7	60/1											256.3 8.6 254.1 10.8
251.0	13.9												250.7 14.2 246.7 18.2
243.7	21.2												234.3 30.6
Coring Terminated at 30.6 feet (Elev. 234.3) in Crystalline Rock (Gray, Biotite Schist)													
Drilling Fluid Properties: Water and Polymer for Coring (Density at 4.7 ft = 63 lbs/ft ³)													

NCDOT BORE SINGLE 07103015.GPJ NC_DOT.GDT 10/15/03



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

SHEET 1 OF 1

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-B		BORING LOCATION 16+79.0		OFFSET 8.0 ft RT	ALIGNMENT -L-	0 HR. 0.80	24 HR. 2.60			
COLLAR ELEV. 264.90 ft		NORTHING 798584.59		EASTING 2100698.82						
TOTAL DEPTH 30.60 ft		DRILL MACHINE Truck CME 55		DRILL METHOD Advanced Casing		HAMMER TYPE 140 lb. Manual				
DATE STARTED 6/23/03		COMPLETED 6/23/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 26.3 ft		DRILLER C. Heun						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	ROD (%)		REC. (%)	ROD (%)		
										Begin Coring @ 4.2 ft
260.7	4.2	1.5	1:56/0.5	(1.3)	(1.0)		(4.2)	(4.0)		260.7 Crystalline Rock: Slightly Weathered, Hard, Gray, Biotite Schist and Gneiss with Moderately Close Fracture Spacing 4.2
259.2	5.7	5.0	3:21	87%	67%		95%	91%		256.3 1 joint at 5° 8.6
			2:37	100%	60%					254.1 Weathered Rock Zone at 6.7-6.9 feet 10.8
254.2	10.7		2:35				(2.1)	(0.0)		250.7 Core Loss at 4.2-4.4 feet 14.2
254.1	10.8	5.0	1:55	(4.7)	(3.4)		(3.4)	(2.6)		246.7 Note: All Breaks Are Mechanical 18.2
			N=60/1	94%	68%		100%	76%		244.1 SPT Core Loss at 10.7-10.8 feet 18.2
			1:46							239.1 Crystalline Rock: Slightly Weathered, Hard, Gray, Biotite Schist and Gneiss with Close to Moderately Close Fracture Spacing
			2:26				(3.0)	(2.0)		234.3 3 joints at 0°-5° 30.6
			3:06				75%	50%		Crystalline Rock: Moderately Weathered, Moderately Hard, Tan-Gray, Biotite Schist and Gneiss with Very Close to Close Fracture Spacing
			2:56	(4.3)	(3.8)					1 joint at 60°
			2:15	86%	76%					2 joints at 0°
			1:48				(12.4)	(12.3)		Coring Terminated at 30.6 feet (Elev. 234.3) in Crystalline Rock (Gray, Biotite Schist and Gneiss)
			2:14				100%	99%		Drilling Fluid Properties: Water
			1:49							
			2:18	(5.0)	(5.0)					
			2:02	100%	100%					
			2:34							
			1:45	(4.8)	(4.7)					
			2:10	100%	98%					
			2:02							
			2:02							
			2:15							
			1:45/0.8							

NCDOT BORE SINGLE CRCPY015.GPJ NC_DOT.GDT 10/15/03