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-A	**BORING LOCATION** 16+80.0	**OFFSET** 9.0 ft LT	**ALIGNMENT** -L-
COLLAR ELEV. 265.50 ft	**NORTHING** 798595.93	**EASTING** 2100711.91	**24 HR.** 5.80
TOTAL DEPTH 36.60 ft	**DRILL MACHINE** Truck CME 55	**DRILL METHOD** Advanced Casing	**HAMMER TYPE** 140 lb. Manual
DATE STARTED 6/24/03	**COMPLETED** 6/24/03	**SURFACE WATER DEPTH** NA	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
265.5									
265.5	0.0	1	1	2	3	SS-5	M		Alluvial: Very Loose, Brown, Micaceous, Silty, Coarse to Fine SAND with a Trace of Rootlets and decayed Plants. (A-2-4) 0.00
262.1	3.4								Note: (3.0-4.4) Cobble Sized Fragments of Saprolite Mixed in with Alluvium 4.4
		7	17	83/.2	100/.7				Crystalline Rock: Moderately Weathered, Moderately Hard, Tan and Gray, Biotite Schist with Close Fracture Spacing 8.0
253.9	11.6								Crystalline Rock: Moderately Weathered, Moderately Hard, Tan and Gray, Biotite Schist with Close Fracture Spacing 11.9
		100/.3			100/.3				Weathered Rock: Severly Weathered, Soft, Brown, Biotite Schist with Close Fracture Spacing 16.8
248.9	16.6								Crystalline Rock: Moderately Weathered, Moderately Hard, Gray, Biotite Schist with No Fractures
		100/.2			100/.2				Weathered Rock: Moderately Severely Weathered, Medium Hard, Gray and Brown, Biotite Schist with Very Close to Close Fracture Spacing
245.1	20.4					RS-1			Crystalline Rock: Very Slightly to Slightly Weathered, Hard, Gray, Biotite Schist with Close to Wide Fracture Spacing
239.6	25.9					RS-2			
232.2	33.3								Crystalline Rock: Very Slightly to Slightly Weathered, Hard, Dark Green-Gray Amphibolite with Close to Moderately Close Fracture Spacing 35.2
230.3	35.2								Crystalline Rock: Very Slightly Weathered, Hard, Gray, Biotite Schist with No Fractures 36.6
228.9	36.6								Coring Terminated at 36.6 feet (Elev. 228.9) in Crystalline Rock (Gray, Biotite Schist)

Drilling Fluid Properties: Water

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

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TOTAL DEPTH 36.60 ft	**DRILL MACHINE** Truck CME 55	**DRILL METHOD** Advanced Casing	**HAMMER TYPE** 140 lb. Manual
DATE STARTED 6/24/03	**COMPLETED** 6/24/03	**SURFACE WATER DEPTH** NA	
CORE SIZE HQ	**TOTAL RUN** 31.5 ft	**DRILLER** C. Heun	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 4.6 ft
260.9	4.6	2.0	0:59	(1.1)	(0.3)		(2.5)	(1.3)		260.9 Crystalline Rock: Moderately Weathered, Moderately Hard, Tan and Gray, Biotite Schist and Gneiss with Close Fracture Spacing 4.6
258.9	6.6		0:53	55%	15%		74%	38%		
		5.0	1:42	(4.3)	(1.0)		(2.9)	(0.0)		257.5 5 joints at 0°-5° 8.0
			1:11	86%	20%		74%	0%		1 joint at 50°
			0:48							2 joints at 45°
253.9	11.6		0:49							253.6
			1:22							Core Loss at 4.6-5.5 feet 11.9
253.6	11.9	4.7	N=100/.3	(2.5)	(0.5)		(0.5)	(0.5)		Weathered Rock: Severly Weathered, Soft, Brown, Biotite Schist and Gneiss
			1.09/0.7	53%	11%		100%	100%		with Close Fracture Spacing
			1:07				(2.0)	(0.0)		
248.9	16.6		1:33				45%	0%		248.7
			1:15							Core Loss at 10.9-11.6 feet 16.8
248.7	16.8	4.8	1:28	(4.8)	(4.1)		(16.4)	(15.6)		SPT Core Loss 11.6-11.9 feet
			N=100/.2	100%	85%		99%	95%		Crystalline Rock: Moderately Weathered, Moderately Hard, Gray, Biotite Schist
			1:18/0.8			RS-1				and Gneiss with No Fractures
			1:23							
243.9	21.6		1:26	(4.9)	(4.9)					1 Healed Joint
		5.0	1:33	98%	98%					Weathered Rock: Moderately Severely Weathered, Medium Hard, Gray and
			1:32							Brown, Biotite Schist and Gneiss with Very Close to Close Fracture Spacing
			1:41							
238.9	26.6		1:37			RS-2				Core Loss at 12.4-14.6 feet
		5.0	1:26	(5.0)	(5.0)					SPT Core Loss at 16.6-16.8 feet
			1:24	100%	100%					Crystalline Rock: Very Slightly to Slightly Weathered, Hard, Gray, Biotite Schist
			1:29							and Gneiss with Close to Wide Fracture Spacing
233.9	31.6		1:40							
		5.0	1:26	(5.0)	(4.9)					4 joints at 45°
			1:33	100%	98%					232.2 4 joints at 0°-5° 33.3
			1:30				(1.9)	(1.9)		1 joint at 30°
			1:36				100%	100%		230.3 35.2
228.9	36.6		1:59				(1.4)	(1.4)		228.9 Core Loss at 24.7-24.8 feet 36.6
			1:58				100%	100%		Crystalline Rock: Very Slightly to Slightly Weathered, Hard, Dark Green-Gray
			1:53							Amphibolite with Close to Moderately Close Fracture Spacing
			1:43							
			1:57							1 joint at 45°
										Crystalline Rock: Very Slightly Weathered, Hard, Gray, Biotite Schist and Gneiss
										with No Fractures
										Coring Terminated at 36.6 feet (Elev. 228.9) in Crystalline Rock (Gray, Biotite
										Schist and Gneiss)

Drilling Fluid Properties: Water

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