



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

PROJECT NO. 34209.1.1		ID No. I-4025A		COUNTY Yadkin/Surry		GEOLOGIST D. Goodnight/P. Weaver							
SITE DESCRIPTION Bridge No. 13 on I-77 SBL Over Yadkin River, Yadkin Valley RR, and NC 268						GROUND WATER (ft)							
BORING NO. B6-B CS		BORING LOCATION 32+15		OFFSET 36ft RT		ALIGNMENT -SBL-							
COLLAR ELEV. 902.0 ft		NORTHING 915397.70		EASTING 1462957.34		0 HR. NA							
TOTAL DEPTH 66.7 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 140 lb./Automatic							
DATE STARTED 4/15/04		COMPLETED 4/20/04		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
902.0													902.0 0.00
901.0	1.0											M	RESIDUAL: Medium Stiff, Red-Brown, Clayey, Coarse to Fine Sandy SILT with Rock Fragments with a Trace of Mica
898.5	3.5	2	3	4									899.0 3.0
896.0	6.0	3	3	4								SS-21 17.7%	Medium Stiff, Red-Brown, Coarse to Fine Sandy, Silty CLAY with Rock Fragments
893.5	8.5	3	4	7								M	894.0 8.0
888.5	13.5	5	6	10								M	Very Stiff, Red-Tan, Clayey, Coarse to Fine Sandy SILT
885.0	17.0	6	8	10								SS-22 24.9%	885.0 17.0
883.5	18.5											M	Dense to Very Dense, Tan and Greenish Brown, Saprolitic, Silty Coarse to Fine SAND
878.5	23.5	13	20	14								M	
875.5	28.5	13	14	32								M	
868.5	33.5	30	32	37								M	
863.5	38.5	18	29	43								M	
860.3	41.7	70	30/0.2									M	865.0 37.0
855.3	46.7	45	55/0.1									M	WEATHERED ROCK: Brown, Severely Weathered, Soft to Medium Hard, Biotite Schist with Very Close to Close Fracture Spacing
		50	50/0.1									M	852.8 49.2
													CRYSTALLINE ROCK: Tan and Grey, Moderately Severely to Moderately Weathered, Medium Hard to Moderately Hard, Biotite Schist with Very Close to Close Fracture Spacing
													835.3 66.7
													Coring Terminated at Elevation 835.3 feet in Crystalline Rock: Biotite Schist
													Note: Bentonite slurry and polymer used as drilling fluid; Density = 63.0 lbs./cu. ft.

NCDOT BORE SINGLE 07104006.GPJ NC\_DOT.GDT 7/13/04



CORE BORING REPORT  
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PROJECT NO. 34209.1.1		ID No. I-4025A		COUNTY Yadkin/Surry		GEOLOGIST D. Goodnight/P. Weaver				
SITE DESCRIPTION Bridge No. 13 on I-77 SBL Over Yadkin River, Yadkin Valley RR, and NC 268						GROUND WATER (ft)				
BORING NO. B6-B CS		BORING LOCATION 32+15		OFFSET 36ft RT		ALIGNMENT -SBL-				
COLLAR ELEV. 902.0 ft		NORTHING 915398		EASTING 1462957		0 HR. NA				
TOTAL DEPTH 66.7 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 140 lb./Automatic				
DATE STARTED 4/15/04		COMPLETED 4/20/04		SURFACE WATER DEPTH NA						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 39.2 ft
862.8	39.2	2.5	12:45	(0.8)	(NA)		(2.3)	(NA)		WEATHERED ROCK: Brown, Severely Weathered, Soft to Medium Hard, Biotite Schist with Very Close to Close Fracture Spacing
860.3	41.7		10:49	32%			26%			
859.7	42.3	4.4	8:26/0.5	(1.5)	(NA)					Zone of Crystalline Rock (Metamorphosed Granite) 40.0 feet to 40.8 feet Zone of Crystalline Rock (biotite schist) 43.7 feet to 44.3 feet 3 jts @ 60° to 70° 3 jts @ 30° to 40° Majority is very broken
855.3	46.7		2:36/0.4 6:42 16:05	34%						
854.7	47.3	4.4	7:05	(2.5)	(0.0)					852.8 49.2
850.3	51.7		5:36 N=100/0.6 2:16/0.4 6:31	57%	0%		(13.7)	(0.7)		
845.3	56.7	5.0	8:20	(3.5)	(0.4)					CRYSTALLINE ROCK: Tan and Grey, Moderately Severely to Moderately Weathered, Medium Hard to Moderately Hard, Biotite Schist with Very Close to Close Fracture Spacing Majority is very broken Numerous jts @ 0° to 5° Numerous jts @ 30° to 40° 5 jts @ 70° to 80°  Note: Long drill time between 58.7 feet and 59.7 feet due to barrel blocking off
840.3	61.7		9:20 9:26 6:10 9:07	70%	8%					
835.3	66.7	5.0	11:29 9:06 7:52	(4.0)	(0.3)					835.3 66.7
			4:38 8:43 17:25 5:12 7:51	74%	0%					
			4:17 7:27 6:28 3:13 4:25							Coring Terminated at Elevation 835.3 feet in Crystalline Rock: Biotite Schist
										Note: Bentonite slurry and polymer used as drilling fluid; Density = 63.0 lbs./cu. ft.

NCDOT BORE SINGLE 07104006.GPJ NC\_DOT.GDT 7/12/04