



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

WBS ELEMENT 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. B2-B CS		BORING LOCATION 27+33		OFFSET 14ft RT		ALIGNMENT -SBL-								
COLLAR ELEV. 856.0 ft		NORTHING 914920.52		EASTING 1463025.53		0 HR. NA								
TOTAL DEPTH 32.0 ft		DRILL MACHINE CME 45 Skid		DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb./Manual								
DATE STARTED 5/4/04		COMPLETED 5/5/04		SURFACE WATER DEPTH 9.5 ft.										
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	
856.0													856.0 0.00	
856.0	0.0	18	6	10								W	856.0 0.4	
852.5	3.5											W	853.0 3.0	ALLUVIAL: Medium Dense, Tan, Fine to Coarse SAND RESIDUAL: Very Stiff, Tan, Saprolitic, Coarse to Fine Sandy SILT
849.0	7.0	100/0.5											100/0.5	WEATHERED ROCK: Brown with White, Severely Weathered, Soft to Medium Hard, Biotite-Mica Schist with Very Close Fracture Spacing
844.0	12.0	100/0.5											100/0.5	
		60/0.1											60/0.1	
														838.0 18.0
														835.0 21.0
												RS-2		CRYSTALLINE ROCK: Grey with White, Moderately Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing
														CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Biotite Schist with Very Close to Close Fracture Spacing
														824.0 32.0
														Coring Terminated at Elevation 824.0 feet in Crystalline Rock: Biotite Schist
														Note: River water alone used as drilling fluid

NCDOT BORE SINGLE 07104006.GPJ NC DOT.GDT 5/26/04



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

WBS ELEMENT 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. B2-B CS		BORING LOCATION 27+33		OFFSET 14ft RT		ALIGNMENT -SBL-				
COLLAR ELEV. 856.0 ft		NORTHING 914920.52		EASTING 1463025.53		0 HR. NA				
TOTAL DEPTH 32.0 ft		DRILL MACHINE CME 45 Skid		DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb./Manual				
DATE STARTED 5/4/04		COMPLETED 5/5/04		SURFACE WATER DEPTH 9.5 ft.						
CORE SIZE NQ				TOTAL RUN 27.4 ft		DRILLER R. Toothman				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 4.0 ft
852.0	4.0	3.0	3:10	(0.6)	(NA)		(7.1)	(NA)		WEATHERED ROCK: Brown with White, Severely Weathered, Soft to Medium Hard, Biotite-Mica Schist with Very Close Fracture Spacing  Majority of fabric and all of jt faces are iron stained Feldspar porphyroblasts are common Approximately half of jts @ 10° to 20° and half of jts @ 30° to 40°  Note: Blow count at 12.0 feet due to a fragment of strong rock within the weathered rock
849.0	7.0		1:56 2:43	20%			53%			
848.5	7.5	4.5	N=100/0.5 0:57/0.5 2:21 2:55	(2.8)	(NA)					
844.0	12.0		3:36 3:49	(3.0)	(NA)					
843.9	12.1	4.9	N=60/0.1 3:21/0.9 3:46	61%						
839.0	17.0		3:44 4:43 3:49	(4.3)	(1.1)		(2.8)	(1.1)		838.0 18.0
		5.0	3:19 3:28	86%	22%		93%	37%		835.0 21.0
834.0	22.0	5.0	4:36 3:30 5:20	(4.2)	(2.3)		(9.0)	(2.6)		Prominent mica and feldspar porphyroblasts 18.0 feet to 19.0 feet Granitic 19.1 feet to 19.6 feet Some pitting of fabric 10 jts @ 10° to 20° with heavy iron staining 4 jts @ 50° to 60° with heavy iron staining
829.0	27.0	5.0	4:56 16:01 5:19 4:33 5:32	(4.0)	(0.3)	RS-2	82%	24%		CRYSTALLINE ROCK: Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Biotite Schist with Very Close to Close Fracture Spacing Isolated feldspar porphyroblasts Majority if jts @ 10° to 20°
824.0	32.0		2:25 3:37 3:55 4:27 5:29							11 jts @ 30° to 40° 1 jt @ 60° 1 jt @ 40° Coring Terminated at Elevation 824.0 feet in Crystalline Rock: Biotite Schist
										Note: River water alone used as drilling fluid

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