



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. B1-B SS		BORING LOCATION 27+08		OFFSET 29ft RT		ALIGNMENT -SBL							
COLLAR ELEV. 858.1 ft		NORTHING 914898.37		EASTING 1463044.56		0 HR. NA							
TOTAL DEPTH 34.2 ft		DRILL MACHINE CME 45 Skid		DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb./Manual							
DATE STARTED 4/30/04		COMPLETED 5/3/04		SURFACE WATER DEPTH 7.4 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
858.1													858.1 0.00
858.1	0.0	1	1	4								W	856.7 ALLUVIAL: Loose, Brown, Fine to Coarse SAND with a Little Gravel with a Trace of Mica 1.4
854.6	3.5	22	38	62/0.4									855.1 RESIDUAL: Loose, Tan, Saprolitic, Silty, Coarse to Fine SAND with a Trace of Mica 3.0
851.6	6.5	75	25/0.2										WEATHERED ROCK: Brown with White, Severely Weathered, Soft to Medium Hard, Biotite Schist with Very Close Fracture Spacing
848.9	9.2	100/0.5											
843.9	14.2	60/0.3											
838.9	19.2	100/0.4											838.1 20.0
													CRYSTALLINE ROCK: Grey with White and Tan, Moderately to Slightly Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing
													823.9 34.2
													Coring Terminated at Elevation 823.9 feet in Crystalline Rock: Biotite Schist
													Note: River water alone used as drilling fluid

NCDOT BORE SINGLE_07104006.GPJ_NC_DOT.GDT_7/13/04



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. B1-B SS		BORING LOCATION 27+08		OFFSET 29ft RT		ALIGNMENT -SBL				
COLLAR ELEV. 858.1 ft		NORTHING 914898.37		EASTING 1463044.56		0 HR. NA				
TOTAL DEPTH 34.2 ft		DRILL MACHINE CME 45 Skid		DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb./Manual				
DATE STARTED 4/30/04		COMPLETED 5/3/04		SURFACE WATER DEPTH 7.4 ft.						
CORE SIZE HQ				TOTAL RUN 25.8 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 @ 7.2 ft
850.9	7.2	2.0	3:06	(0.1)	(NA)		(1.0)	(NA)		WEATHERED ROCK: Brown with White, Severely Weathered, Soft to Medium Hard, Biotite Schist with Very Close Fracture Spacing
848.9	9.2		4:50	5%			9%			
848.4	9.7	4.5	N=100/0.5 1:13/0.5 4:28	(0.9)	(NA)					All of fabric and jts are heavily iron stained Feldspar porphyroblasts are common
843.9	14.2		2:57 2:40	20%						
843.6	14.5	4.7	2:47	(0.0)	(NA)					
838.9	19.2		N=60/0.3 2:23/0.7 2:55	0%						
838.5	19.6	4.6	3:14 2:37 2:34	(3.7)	(0.0)		(8.8)	(0.4)		838.1 20.0
833.9	24.2	5.0	N=100/0.4 2:11/0.6	80%	0%		62%	3%		CRYSTALLINE ROCK: Grey with White and Tan, Moderately to Slightly Weathered, Moderately Hard to Hard, Biotite Schist with Very Close to Close Fracture Spacing
		5.0	5:29 3:51 6:08 6:51	(3.2)	(0.4)					Isolated concentrations of mica Numerous feldspar porphyroblasts Majority of jts @ 10° to 20° 6 jts @ 60° to 70° and at least 3 jts @ 80° to 90° Numerous partially healed high angle fractures
828.9	29.2	5.0	4:22 4:43 4:36 7:56 6:27	(1.9)	(0.0)					
823.9	34.2		5:15 7:25 4:13 3:39 4:40							823.9 34.2
										Coring Terminated at Elevation 823.9 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