



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 CS		BORING LOCATION 26+10		OFFSET 31ft RT		ALIGNMENT -SBL							
COLLAR ELEV. 880.7 ft		NORTHING 914802.93		EASTING 1463065.18		0 HR. 15.7							
TOTAL DEPTH 62.1 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 140 lb./Automatic							
DATE STARTED 5/10/04		COMPLETED 5/12/04		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
880.7													880.7 0.00
879.7	1.0	2	3	4								ST-1 M	ALLUVIAL: Medium Stiff, Brown, Fine Sandy SILT with a Trace of Mica
877.2	3.5	2	2	2								M	
874.7	6.0	1	2	2								W	875.2 5.5
872.2	8.5	2	1	2								W	ALLUVIAL: Medium Stiff to Soft, Brown, Fine Sandy, Silty CLAY with a Trace of Mica
867.2	13.5	2	2	1									868.7 12.0
862.2	18.5	24	10	12								M	ALLUVIAL: Very Loose, Brown, Silty, Fine SAND with a Trace of Mica
857.2	23.5	19	19	19								M	861.2 19.5
852.2	28.5	6	12	65								M	RESIDUAL: Very Stiff to Hard, Orange-Tan, Saprolitic, Coarse to Fine Sandy SILT
847.2	33.5	31	69/0.3										846.7 34.0
843.6	37.1	75	25/0.1										WEATHERED ROCK: Brown with Tan, Severely Weathered, Soft to Medium Hard, Metamorphosed Granite with Very Close to Close Fracture Spacing
838.6	42.1	60/0.2											
833.6	47.1	60/0.3											
828.6	52.1	60/0.3											
													818.6 62.1
Coring Terminated at Elevation 818.6 feet in Weathered Rock: Metamorphosed Granite													
Note: Bentonite mud slurry used as drilling fluid: Density = 64.0 lbs./cu. ft.													

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



CORE BORING REPORT  
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BORING NO. B1-B CS		BORING LOCATION 26+10		OFFSET 31ft RT		ALIGNMENT -SBL				
COLLAR ELEV. 880.7 ft		NORTHING 914802.93		EASTING 1463065.18		0 HR. 15.7				
TOTAL DEPTH 62.1 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 140 lb./Automatic				
DATE STARTED 5/10/04		COMPLETED 5/12/04		SURFACE WATER DEPTH NA						
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 @ 34.3 ft
846.4	34.3	2.8	1:58/0.8	(0.0)	(NA)		(9.9)	(NA)		WEATHERED ROCK: Brown with Tan, Severely Weathered, Soft to Medium Hard, Metamorphosed Granite with Very Close to Close Fracture Spacing  All of fabric and jts are iron stained Abundant vertical to near vertical fractures
843.6	37.1		2:28	0%			38%			
843.0	37.7	4.4	1:02/0.4	(0.0)	(NA)					
838.6	42.1		2:34							
838.4	42.3	4.8	2:23	(0.7)	(NA)					
833.6	47.1		2:01							
833.3	47.4	4.7	1:56	15%						
828.6	52.1		2:20							
828.3	52.4	4.7	2:44	(3.2)	(NA)					
823.6	57.1		2:14							
		5.0	2:19							
			1:50/0.7							
			1:32/0.7	(2.8)	(NA)					
			2:44							
818.6	62.1		3:18							
			3:27	(3.2)	(NA)					
			3:51							
			4:11							
			4:45							
			3:46							
			2:41							
Coring Terminated at Elevation 818.6 feet in Weathered Rock: Metamorphosed Granite										
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