

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO 34383.1.1	ID R-2206C	COUNTY CATAWBA	GEOLOGIST J.K. STICKNEY
SITE DESCRIPTION BRIDGE ON NC 16 BYPASS OVER REED CRK BETWEEN SR 1855 & NC 16			GND WATER
BORING NO B2-B NBL	NORTHING 0.00	EASTING 0.00	0 HR 1.90m
ALIGNMENT L	BORING LOCATION 257+01.000	OFFSET 16.90m RT	24 HR 2.30m
COLLAR ELEV 280.05m	TOTAL DEPTH 11.19m	START DATE 12/21/03	COMPLETION DATE 12/21/03

PROJECT NO: 8.1830503 PROJECT ID: R-2206C COUNTY: CATAWBA GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: BRIDGE ON NC 16 BYPASS OVER REED CRK BETWEEN SR 1855 & NC 16 DRILLER: C.L. SMITH
 BORING NO: B2-B NBL BORING LOCATION (STA): 257+01.0 OFFSET: 16.9 RT
 COLLAR ELEV: 280.051 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL
 TOTAL DEPTH: 11.19 DRILL MACHINE: CME-550 DATE STARTED: 12-21-03
 TOTAL RUN: 5.39 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12-21-03

SURFACE WATER DEPTH				DEPTH TO ROCK 5.80m				Log B2-B NBL, Page 1 of 1				
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
280.05												Ground Surface
279.00	1.69	6	4	5	0.30					SS-4	MOIST	ALLUVIUM - LOOSE TAN-GRAY SILTY SAND WITH QUARTZ GRAVEL
277.00	3.21	1	2	5	0.30					SS-5	M/W	
275.00	4.74	5	8	36	0.30				44		M/W	RESIDUAL - MEDIUM STIFF TO HARD TAN-BROWN SILTY SANDY CLAY
										RUN #1		WEATHERED ROCK
										RUN #2		HARD ROCK - GRAY-WHITE GRANITE, REC=88% RQD=58%
												AS ABOVE, REC=86% RQD=55%
										RUN #3		AS ABOVE, REC=97% RQD=60%
										RUN #4		AS ABOVE, REC=100% RQD=62%
268.88												BORING TERMINATED AT ELEVATION 268.861 METERS IN VERY HARD GRANITE

ELEV. (M)	DEPTH (M)	DRILL RATE (MIN/3 m)	RUN NO.	REC % (M)	RQD % (M)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
274.251	5.8		1	88	58		GRAY-WHITE SLIGHTLY WEATHERED, HARD TO VERY HARD META-GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
273.851	6.2		2	86	55		GRAY-TAN-WHITE VERY SLIGHTLY WEATHERED TO FRESH, VERY HARD META-GRANITE WITH VERY CLOSE TO MODERATELY CLOSE FRACTURE SPACING
272.331	7.72		3	97	60		GRAY-TAN-WHITE FRESH, VERY HARD META-GRANITE WITH VERY CLOSE TO MODERATELY CLOSE FRACTURE SPACING
270.301	9.75		4	100	62		WHITE AND GRAY FRESH, VERY HARD META-GRANITE WITH VERY CLOSE TO MODERATELY CLOSE FRACTURE SPACING
268.861	11.19						
NOTES							