

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

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

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-A NBL BORING LOCATION (STA): 257+01.7 OFFSET: 10.9 RT
 COLLAR ELEV: 280.126 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL
 TOTAL DEPTH: 12.29 DRILL MACHINE: CME-550 DATE STARTED: 12-22-03
 TOTAL RUN: 8.15 DRILL EQUIP: NXWL, TRI-CONE DATE COMPLETED: 12-22-03

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-A NBL		NORTHING 0.00		EASTING 0.00		0 HR 2.10m								
ALIGNMENT L		BORING LOCATION 257+01.700		OFFSET 10.90m RT		24 HR 1.70m								
COLLAR ELEV 280.13m		TOTAL DEPTH 12.29m		START DATE 12/22/03		COMPLETION DATE 12/22/03								
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC								
SURFACE WATER DEPTH			DEPTH TO ROCK 4.14m			Log B2-A 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	100				
280.13														Ground Surface
279.00	1.68	1	2	4	0.30									ALLUVIUM - LOOSE TAN-GRAY SILTY SAND WITH QUARTZ SIZED GRAVEL
277.00	3.20	13	45	55	0.30									RESIDUAL - MEDIUM STIFF TO HARD TAN-BROWN SILTY SANDY CLAY
														WEATHERED ROCK
275.00														HARD ROCK - BROWN-GRAY-BLACK GRANITE, REC=87% RQD=40%
														AS ABOVE, REC=63% RQD=15%
														AS ABOVE, REC=95% RQD=0%
273.00														GRAY-WHITE GRANITE, REC=99% RQD=50%
271.00														GRAY-BLACK-WHITE GRANITE, REC=82% RQD=55%
269.00														AS ABOVE, REC=93% RQD=75%
267.84														CORING TERMINATED AT ELEVATION 267.836 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
275.986	4.14		1	87	40		BROWN-GRAY-BLACK MODERATELY SEVERELY WEATHERED, MEDIUM TO MODERATELY HARD GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
275.841	4.67		2	63	15		AS ABOVE
274.321	6.19		3	95	0		AS ABOVE EXCEPT ROCK IS SOFT TO MODERATELY HARD
272.821	7.69		4	99	50	RS-4	GRAY-WHITE MODERATELY TO SLIGHTLY WEATHERED, HARD GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING
271.351	9.16		5	82	55		GRAY-BLACK-WHITE SLIGHTLY WEATHERED, HARD TO VERY HARD GRANITE WITH CLOSE FRACTURES
269.741	10.77		6	93	75		AS ABOVE TO 11.36 THEN, GRAY FRESH VERY HARD GRANITE (1 SOLID PIECE)
268.221	12.29						
NOTES							