

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: B1-B SBL BORING LOCATION (STA): 256+81.0 OFFSET: 11.3 LT
 TOTAL DEPTH: 10.68 PERSONNEL: C.E. BURRIS CORE SIZE: NXWL
 TOTAL RUN: 9.63 DRILL MACHINE: CME-550 DRILL EQUIP: NXWL, TRI-CONE DATE STARTED: 1-8-04
 DATE COMPLETED: 1-8-04

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 B1-B SBL		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT L		BORING LOCATION 256+81.000		OFFSET 11.30m LT		24 HR 3.50m						
COLLAR ELEV 282.14m		TOTAL DEPTH 10.68m		START DATE 1/08/04		COMPLETION DATE 01/08/04						
DRILL MACHINE CME-550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 1.05m			Log B1-B SBL, 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			
282.14												Ground Surface
281.00										RUN #1	MOIST	RESIDUAL - MEDIUM DENSE TO VERY DENSE TAN-BROAN SILTY SAND
										RUN #2		HARD ROCK - BROWN-TAN-GRAY GRANITE, REC=36% RQD=12% AS ABOVE, REC=20% RQD=8%
279.00										RUN #3		BROWN-GRAY GRANITE, REC=36% RQD=0%
277.00										RUN #4		AS ABOVE, REC=27% RQD=0%
										RUN #5		AS ABOVE, REC=83% RQD=72%
275.00										RUN #6		GRAY GRANITE, REC=98% RQD=94%
273.00										RS-2		
										RUN #7		GRAY GRANITE, REC=94% RQD=70%
271.46												CORING TERMINATED AT ELEVATION 277.751 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
287.381	1.05		1	36	12		BROWN-TAN-GRAY SEVERE TO MODERATELY SEVERELY WEATHERED, SOFT TO MODERATELY HARD GRANITE WITH VERY CLOSE TO CLOSE FRACTURE SPACING (THIS IS BASICALLY HARD AND SOFT WEATHERED ROCK)
286.541	1.89		2	20	8		AS ABOVE
285.021	3.41		3	36	0		AS ABOVE
283.501	4.93		4	27	0		AS ABOVE
281.981	6.45		5	83	72		BROWN-GRAY MODERATE TO SLIGHTLY WEATHERED, HARD GRANITE WITH CLOSE FRACTURE SPACING TO 7.05 METERS, THEN GRAY FRESH, VERY HARD GRANITE (1 SOLID PIECE TO END OF RUN)
280.461	7.97		6	98	94	RS-2	GRAY FRESH, VERY HARD GRANITE WITH CLOSE TO MODERATELY CLOSE FRACTURE SPACING
278.981	9.45		7	94	70		AS ABOVE
277.751	10.68						
NOTES							