

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

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

PROJECT NO 34517.1.1	ID R-2911D	COUNTY ROWAN	GEOLOGIST J.K. STICKNEY
SITE DESCRIPTION BRIDGE ON US 70 OVER SECOND CREEK BETWEEN SR 1951 & SR 1728			GND WATER
BORING NO B1-B LT LN	NORTHING 0.00	EASTING 0.00	0 HR 8.40ft
ALIGNMENT L	BORING LOCATION 303+62.000	OFFSET 14.50ft LT	24 HR 8.80ft
COLLAR ELEV 656.15ft	TOTAL DEPTH 50.60ft	START DATE 4/06/04	COMPLETION DATE 04/06/04
DRILL MACHINE CME-550	DRILL METHOD NW CASING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH		DEPTH TO ROCK 37.30ft	Log B1-B LT LN, Page 1 of 1

PROJECT NO: 34517.1.1 PROJECT ID: R-2911D COUNTY: ROWAN GEOLOGIST: J.K. STICKNEY
 SITE DESCRIPTION: BRIDGE ON US 70 OVER SECOND CREEK BETWEEN SR 1951 & SR 1728 DRILLER: C.L. SMITH
 BORING NO: B1-B LT LN BORING LOCATION (STA): 303+62-L- OFFSET: 14.5 LT
 COLLAR ELEV: 656.15 PERSONNEL: D.K. BRATTON CORE SIZE: NXWL
 TOTAL DEPTH: 50.6 DRILL MACHINE: CME-550X DATE STARTED: 4/6/04
 TOTAL RUN: 13.3 DRILL EQUIP: NWCAS/NXWL DATE COMPLETED: 4/6/04

ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		6in	6in	6in		0	25	50	75	100			
656.15													Ground Surface
650.00	5.90	1	1	1	1.0							MOIST	ALLUVIUM - VERY SOFT TAN-BROWN SILTY SANDY CLAY
	10.90	0	1	2	1.0							M/W	VERY LOOSE GRAY CLAYEY SAND
640.00	15.90	0	1	1	1.0							SAT	
	20.90	0	1	2	1.0							"	
630.00	25.90	15	39	61	0.8							DRY	RESIDUAL - MEDIUM DENSE GRAY-BROWN SILTY SAND
	30.90	100			0.8								WEATHERED ROCK
620.00	35.90	100			0.3								
610.00													HARD ROCK - GRAY VERY SLIGHTLY WEATHERED TO FRESH, VERY HARD, METAGABBRO, REC=100% RQD=87%
													GRAY FRESH, VERY HARD METAGABBRO, REC=94% RQD=40%
605.55													AS ABOVE - REC=88% RQD=66%
CORING TERMINATED AT ELEVATION 605.55 FEET IN HARD ROCK (METAGABBRO)													

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
618.85	37.3	2.49	1	100	75		GRAY V. SLI. WEATH. TO FRESH V. HARD METAGABBRO W/ MOD. CLOSE FRACTURE SPACING.
615.55	40.6	1.57	2	94	40		GRAY FRESH V. HARD METAGABBRO W/ CLOSE TO MOD. CLOSE FRACTURES. EXCEPT BETWEEN 43.6-44.1 WHERE ROCK IS SLI. WEATH. & V. CLOSELY FRACTURED.
610.55	45.6	1.71	3	88	66		GRAY FRESH V. HARD METAGABBRO W/ CLOSE FRACTURE SPACING.
605.55	50.6						

NOTES