

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.2406201		ID. B-3375		COUNTY WAKE		GEOLOGIST J.L. LOVE							
SITE DESCRIPTION BRIDGE NO. 471 ON -L- (SR 1375) OVER LAKE WHEELER SPILLWAY							GROUND WATER						
BORING NO. EBI-B		BORING LOCATION 42+76		OFFSET 25' RT		ALIGNMENT -L-							
COLLAR ELEVATION 264.2'		NORTHING 707370		EASTING 2092619		24 HR. 2.2'							
TOTAL DEPTH 39.4'		DRILL MACHINE CME-550		DRILL METHOD NW CASING/CORE		HAMMER TYPE AUTOMATIC							
START DATE 2/19/03		COMPLETION DATE 2/20/03		SURFACE WATER DEPTH N/A		DEPTH TO ROCK 24.8'							
ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT				SAMPLE NUMBER	LOG MOI.	SOIL AND ROCK DESCRIPTION	
		0.5'	0.5'	0.5'		0	25	50	75				100
264.2													ARTIFICIAL FILL, RED-ORANGE, SILTY SAND WITH GRAVEL AND BOULDERS
260.0	4.7'	2	4	5	1.0	X 9						SS-8	
255.0	9.7'	2	2	6	1.0	X 8							ALLUVIAL, TAN-BROWN, SILTY SAND AND COARSE SAND WITH GRAVEL
250.0	14.7'	5	7	12	1.0	X 19						SS-9	
245.0	19.7'	5	3	6	1.0	X 9							RESIDUAL, TAN-BROWN, SILTY FINE SAND, SAPROLITIC
240.0	24.7'	60			0.1							RS-1	WEATHERED ROCK, (GRANITE) CRYSTALLINE ROCK, PINK-GRAY, MODERATELY TO SLIGHTLY WEATHERED, MODERATELY HARD, GRANITE (SLIGHTLY SCHISTOSE)
235.0													
230.0													
225.0													
220.0													
215.0													
210.0													
205.0													
200.0													
195.0													
190.0													
185.0													

CORING TERMINATED AT
ELEVATION 224.8 FEET
IN CRYSTALLINE ROCK
(GRANITE)

CORE BORING REPORT

PROJECT: 8.2406201 ID: B-3375 COUNTY: Wake BORING NO: EB1-B

DESCRIPTION: Bridge No. 471 on -L- (SR 1375) over Lake Wheeler Spillway

LOCATION OF BORING: -L- Sta. 42+76, Offset 25' RT COMPLETION DATE: 2/20/03

COLLAR or GROUND ELEVATION: 264.2 ft CORE SIZE: NX GEOLOGIST: J. L. Love

CORE EQUIPMENT: CME-550, NW- Casing, NXWL DRILLER: H. R. Conley

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (ft) (%)	RQD (ft) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
238.8	25.4	0:33					
		1:13		3.8	3.4	RS-1	(25.4-25.7') White and brown, slightly weathered, moderately hard, granite (slightly schistose) with some iron-staining
		2:00	4.0	(95%)	(85%)	28.9-29.4'	(25.7-29.4') Pink-gray, fresh, very hard, granite (slightly schistose)
		2:59					
234.8	29.4	-					
234.8	29.4	1:18		4.9	4.9		Pink-gray, fresh, very hard, granite (slightly schistose) with a 10-degree fracture at 31.7' with some iron-staining in fracture
		1:14					
		1:22	5.0	(98%)	(98%)		
		1:50					
229.8	34.4	2:16					
229.8	34.4	2:38		4.9	4.9	RS-2	Pink-gray, fresh, very hard, granite (slightly schistose) with a horizontal fracture at 38.5' with some iron-staining in fracture
		2:21					
		3:45	5.0	(98%)	(98%)	37.0-37.5'	
		4:48					
224.8	39.4	4:51					

BOREHOLE TERMINATED AT ELEVATION OF 224.8 FEET, IN CRYSTALLINE ROCK.