NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 8.2407701	ID. B-3530	COUNTY WAKE	GEOLOGIST J.L. LOVE/C.D. CZAJKA
SITE DESCRIPTION BRIDGE NO. 174 ON -L- (SR 2320, RILEY HILL RD.) OVER BUFFALO CREEK			GROUND WATER
BORING NO. B1-B	BORING LOCATION 15+58	OFFSET 5' RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEVATION 318.9'	NORTHING 768794	EASTING 2169648	24 HR. FIAD
TOTAL DEPTH 29.3'	DRILL MACHINE CME-550	DRILL METHOD SPT CORE BORING	HAMMER TYPE MANUAL
START DATE 10/1/03	COMPLETION DATE 10/1/03	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 13.8'

ELEV.	DEPTH (FT.)	BLOW COUNT 0.5'	0.5'	0.5'	PEN. (FT.)	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NUMBER	MOI.	LOG	SOIL AND ROCK DESCRIPTION
318.9										
315.0	3.7	1	2	1	1.0	X3		M		ROADWAY EMBANKMENT, ORANGE-BROWN, SILTY CLAY
	6.2	WOH	1	3	1.0	X4		M		
310.0	8.7	5	4	6	1.0	X10		W		ALLUVIAL, GRAY, SILTY SAND
	11.2	1	99		0.7	100+ X	SS-12	W		
										WEATHERED ROCK (GRANITE)
305.0	13.7	60			0.1	60/0.1 X	RS-3			CRYSTALLINE ROCK (GRANITE) BLACK AND WHITE, SLIGHTLY WEATHERED TO FRESH, HARD, CLOSELY TO WIDELY FRACTURED, GRANITE
300.0										
295.0										
290.0										REC=89% RQD=85%
285.0						CORING TERMINATED AT ELEVATION 289.6 FEET IN CRYSTALLINE ROCK (GRANITE)				
280.0										
275.0										
270.0										
265.0										
260.0										
255.0										
250.0										
245.0										
240.0										

CORE BORING REPORT

PROJECT: 8.2407701 ID: B-3530 COUNTY: Wake BORING NO: B1-B

DESCRIPTION: Bridge No. 174 on -L- (SR 2320, Riley Hill Rd.) over Buffalo Creek

LOCATION OF BORING: -L- Sta. 15+58, 5' RT COMPLETION DATE: 10/1/03

COLLAR or GROUND ELEVATION: 318.9 ft CORE SIZE: NQ GEOLOGIST: C. D. Czajka

CORE EQUIPMENT: CME-550, H-Casing, NQ, HSA DRILLER: W. D. Fletcher

ELEV (ft)	DEPTH (ft)	DRILL RATE (min/ft)	RUN (ft)	REC (ft) (%)	RQD (ft) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
304.6	14.3	2:18					Black and white, slightly to very slightly weathered, hard, closely to moderately closely fractured, granite
		1:54		3.5	2.9		
		0:58	5.0			RS-3	
		1:07		(70%)	(58%)		
299.6	19.3	1:33					
299.6	19.3	2:12					Black and white, fresh, hard, close to moderately closely fractured, granite
		1:38		4.8	4.8		
		1:40	5.0				
		1:50		(96%)	(96%)		
294.6	24.3	1:51					
294.6	24.3	1:40					Black and white, fresh, hard, moderately close to close fractured, granite
		2:03		5.0	5.0		
		1:52	5.0				
		1:43		(100%)	(100%)		
289.6	29.3	1:26					
							BOREHOLE TERMINATED AT ELEVATION OF 289.6 FEET, IN GRANITE.