

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

PROJECT NO. 34459.1.6		ID. R-2552C		COUNTY JOHNSTON		GEOLOGIST J.L. LOVE	
SITE DESCRIPTION NEW BRIDGE ON -L2LT- (US 70 BYPASS) OVER LITTLE CREEK						GROUND WATER	
BORING NO. BI-C		BORING LOCATION 109+05.8		OFFSET 3.6m LT		ALIGNMENT -L2LT-	
COLLAR ELEV. 55.85m		NORTHING 206228.8		EASTING 659302.9		0 HR. N/A	
TOTAL DEPTH 11.48m		DRILL MACHINE MOBILE B-57		DRILL METHOD H.S.AUGER/CORE		HAMMER TYPE MANUAL	
START DATE 7/26/04		COMPLETION DATE 7/27/04		SURFACE WATER DEPTH N/A		DEPTH TO ROCK 7.52m	
24 HR. 1.30m							

ELEV.	DEPTH	BLOW COUNT			PEN. (m)	BLOWS PER 30cm					SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
55.85														
	0.96	3	3	4	0.30								M	ALLUVIAL, TAN-BROWN TO DARK GRAY, SILTY SAND
54.00													W	
	2.48	2	1	2	0.30						SS-30			
52.00													M	RESIDUAL, ORANGE, SANDY SILT, SAPROLITE
	4.00	3	5	5	0.30									
	5.52	2	3	4	0.30								M	
50.00													M	
	7.04	3	97		0.27					100+			M	
48.00														SOFT WEATHERED ROCK
														HARD ROCK, GRAY TO PINK, SLIGHTLY WEATHERED TO FRESH, SLIGHTLY TO MODERATELY FRACTURED META-GRANITE REC = 97% RQD = 80%
46.00											RS-6			
44.00														CORING TERMINATED AT ELEVATION 44.37 METERS IN HARD ROCK (META-GRANITE)
42.00														
40.00														
38.00														
36.00														

## CORE BORING REPORT

PROJECT: 34459.1.6 ID: R-2552 C COUNTY: Johnston BORING NO: B1-C

DESCRIPTION: New Bridge on -L2LT- (US 70 Bypass) over Little Creek

LOCATION OF BORING: -L- Sta. 109+05.8, Offset 3.6m LT COMPLETION DATE: 7/27/04

COLLAR or GROUND ELEVATION: 55.85 m CORE SIZE: NWD4,NQ2 GEOLOGIST: J.L. Love

CORE EQUIPMENT: Mobile B-57, HSA, NWD4-barrel and NQ-barrel DRILLER: M. Moseley

ELEV (m)	DEPTH (m)	DRILL RATE (min/0.3m)	RUN (m)	REC (m) (%)	RQD (m) (%)	SAMPLE NUMBER	FIELD CLASSIFICATION and REMARKS
48.33	7.52	5:05					Gray, slightly weathered to fresh, slightly fractured, meta-granite with 45 degree fracture at 8.05m. Healed conchoidal fractures from 8.54 to 8.70m.
		6:35		1.19	0.90		
		8:07	1.22	(98%)	(74%)		
		13:33					
47.11	8.74	-					Green-gray to pink, fresh, slightly to moderately fractured, meta-granite with 70 degree fracture at 8.77m to 8.92m.
47.11	8.74	35:26		1.45	1.06	RS-6	
		72:12	1.52	(95%)	(70%)	10.09-10.26	
		9:36					
45.59	10.26	12:53					Pink, fresh, sound, meta-granite.
45.59	10.26	3:51		1.19	1.19		
		3:46	1.22	(98%)	(98%)		
		3:47					
44.37	11.48	-					

BOREHOLE TERMINATED AT ELEVATION OF 44.37 METERS, IN META-GRANITE.