

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. B4-A	BORING LOCATION 109+80.0	OFFSET 10.2m LT	ALIGNMENT -L2LT-
COLLAR ELEV. 54.67m	NORTHING 206201.9	EASTING 659372.3	0 HR. N/A 24 HR. 0.40m
TOTAL DEPTH 14.77m	DRILL MACHINE MOBILE B-57	DRILL METHOD ROTARY W/MUD	HAMMER TYPE MANUAL
START DATE 8/3/04	COMPLETION DATE 8/3/04	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 10.25m

ELEV.	DEPTH	BLOW COUNT			PEN. (m)	BLOWS PER 30cm					SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
54.67														
54.00	1.10	6	4	6	0.30	X 10						SS-41	M	ALLUVIAL, TAN AND GRAY, SILTY SAND
52.00	2.62	13	16	20	0.30	X 36						SS-42	M	RESIDUAL, WHITE AND TAN, SAND, SAPROLITIC
50.00	4.14	32	21	27	0.30	X 48							M	
48.00	5.66	18	12	24	0.30	X 36							M	
46.00	7.18	30	34	66	0.22					100+X				SOFT WEATHERED ROCK (META-GRANITE)
44.00	8.70	50			0.02					50/0.02 X				HARD WEATHERED ROCK (META-GRANITE)
42.00	10.22	50			0.03					50/0.03 X				HARD ROCK, TAN-ORANGE TO PINK, MODERATELY SEVERELY TO SLIGHTLY WEATHERED, EXTREMELY TO MODERATELY FRACTURED, META-GRANITE REC = 70% RQD = 6%
40.00						CORING TERMINATED AT ELEVATION 39.90 METERS IN HARD ROCK (META-GRANITE)								
38.00														
36.00														

CORE BORING REPORT

PROJECT: 34459.1.6	ID: R-2552 C	COUNTY: Johnston	BORING NO: B4-A
DESCRIPTION: New Bridge on -L2LT- (US 70 Bypass) over Little Creek			
LOCATION OF BORING: -L- Sta. 109+80.0, Offset 10.2m LT			COMPLETION DATE: 8/3/04
COLLAR or GROUND ELEVATION: 54.67 m		CORE SIZE: NQ2	GEOLOGIST: J.L. Love
CORE EQUIPMENT: Mobile B-57, N-Casing, 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
44.45	10.22	2:12 2:18 1:15	0.91	0.83 (91%)	0.13 (14%)		Tan-orange, moderately weathered, extremely to moderately fractured, micaceous meta-granite. Numerous iron-stained fractures ranging from 30 to 50 degrees.
43.54	11.13	-					
43.54	11.13	0:59 0:38 2:03 1:47	1.52	1.20 (79%)	0.13 (9%)		Tan-pink, slightly to moderately weathered, extremely to moderately fractured, meta-granite.
42.02	12.65	2:07					
42.02	12.65	3:02 2:02 0:45 3:07	1.52	0.86 (57%)	0.00 (0%)		Tan-pink, slightly weathered to moderately severely weathered, extremely to moderately fractured, meta-granite with a quartz seam from 12.75m to 12.95m.
40.50	14.17	3:19					
40.50	14.17	2:37 0:42	0.60	0.28 (47%)	0.00 (0%)		Tan, slightly weathered, moderately to extremely fractured, meta-granite. Manganese-staining on joint surfaces.
39.90	14.77	-					
BOREHOLE TERMINATED AT ELEVATION OF 39.90 METERS, IN META-GRANITE.							