



N.C.D.O.T. GEOTECHNICAL UNIT
BORING LOG

SHEET 1 OF 1

PROJECT NO. 8.T311002		ID. R-2552AB		COUNTY Johnston		GEOLOGIST M. Lear								
SITE DESCRIPTION Site 1: Dual Structures on Clayton bypass (-L-) over White Oak Creek (Austin pond)							GROUND WATER (m)							
BORING NO. B5-B LL		BORING LOCATION 40+91.5		OFFSET 8.8m LT		ALIGNMENT -L-								
COLLAR ELEV. 58.70 m		NORTHING 208,456.2		EASTING 652,927.5		0 HR. 0.24								
TOTAL DEPTH 13.85 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual								
DATE STARTED 8/16/01		COMPLETED 8/17/01		SURFACE WATER DEPTH N/A										
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		15cm	15cm	15cm	0	20	40	60	80				100	
58.70	0.00	WOH	1	1								58.70	0.00	Alluvium: Brown, tan, and gray, slightly silty CLAY (A-6) with roots and wood fragments
57.37	1.33		3	4	6							Sat.		
55.90	2.80		7	12	21							Sat.		Alluvium: Tan, white, and orange, fine to coarse SAND (A-3) with rounded quartz gravel
54.40	4.30		8	10	13							W		Alluvium: rounded quartz GRAVEL (A-1-a) Residual: Tan and white, clayey, silty Sand (A-2-4) with relict rock fabric
52.75	5.95		12	19	17							M		
51.26	7.44		11	17	18							M		
49.75	8.95	50/2cm												Interpreted as Hard Weathered Rock: Granite (not sampled)
														Hard Rock: Gray, fine to medium grained, very slightly weathered to fresh, slightly fractured to sound, hard to very hard Granite (1 joint at 90° with clay and Fe-oxide stain; 4 joints at 70-80° with clay and Fe-oxide stain; 1 joint at 60° with clay; 1 joint at 35° with Fe-oxide stain)
														RS-3 sampled from 9.17m to 9.31m RS-4 sampled from 9.31m to 9.39m
														Boring terminated at 13.85m (Elev. 44.85m) in Hard Rock: Granite
														Bits used: 7.6cm roller cone and NQ core bit
														Drilling Fluid: Water

NCDOT BORE SINGLE BORELOG2.GPJ NC DOT.GDT 10/16/01



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CORE BORING REPORT

SHEET NO.	TOTAL SHEETS
38	107

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COLLAR ELEV. 58.70 m		NORTHING 208,456.2		EASTING 652,927.5		0 HR. 0.24				
TOTAL DEPTH 13.85 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual				
DATE STARTED 8/16/01		COMPLETED 8/17/01		SURFACE WATER DEPTH N/A						
CORE SIZE NQ		TOTAL RUN 4.88 m		DRILLER D. White						
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 8.97 m
49.73	8.97	0.68	3:41	(0.68)	(0.63)		(4.88)	(4.12)		Hard Rock: Gray, fine to medium grained, very slightly weathered to fresh, slightly fractured to sound, hard to very hard Granite (1 joint at 90° with clay and Fe-oxide stain; 4 joints at 70-80° with clay and Fe-oxide stain; 1 joint at 60° with clay; 1 joint at 35° with Fe-oxide stain) RS-3 sampled from 9.17m to 9.31m RS-4 sampled from 9.31m to 9.39m
49.05	9.65		7:03	100%	93%	RS-3	100%	84%		
		1.27	4:13/0.08	(1.27)	(1.19)					
47.78	10.92		5:35	100%	94%					
		1.73	6:18/0.07	(1.73)	(1.33)					
			5:15/0.23	100%	77%					
			11:32							
			10:39							
46.05	12.65		8:12							
		1.20	8:11							
			5:52	(1.20)	(0.97)					
			7:07	100%	81%					
			11:32							
			9:19							
44.85	13.85		16:00							Coring terminated at 13.85m (Elev. 44.85m) in Hard Rock: Granite

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