



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 RL		BORING LOCATION 41+26.8		OFFSET 21.7m RT	ALIGNMENT -L-		0 HR. N/A								
COLLAR ELEV. 58.05 m		NORTHING 208,415.3		EASTING 652,949.7			24 HR. N/A								
TOTAL DEPTH 15.69 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual									
DATE STARTED 7/31/01		COMPLETED 7/31/01		SURFACE WATER DEPTH 0.10m											
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		
58.05													58.05	0.00	
58.05	0.00	WOH	WOH	WOH									58.05		Alluvium: Gray CLAY (A-6) with roots and organic debris
56.57	1.48	3	4	8									56.57		
55.08	2.97	5	9	11									55.55	2.50	Alluvium; Tan, fine to coarse sandy, rounded quartz GRAVEL (A-1-a)
53.63	4.42	12	11	10									54.05	4.00	Residual: Tan, fine to coarse SAND (A-3) with gravel sized rock fragments (Granite)
52.13	5.92	12	12	14									52.55	5.50	Residual: Green and white, slightly clayey, fine sandy SILT (A-4) with relict rock fabric
50.53	7.52	30	25	18									49.75	8.30	Residual: Tan and white, slightly clayey, silty, fine to coarse SAND (A-2-4) with relict rock fabric
49.07	8.98	26	34	45									48.05	10.00	Soft Weathered Rock: Granite
47.59	10.46	58	42/13cm										46.73	11.32	Hard Rock: Green and white, fine to medium grained, moderately weathered, moderately to slightly fractured, moderately hard Granite (1 joint at 70-80° with mica and pyrite; 4 joints at 20-30°; extremely fractured zone from 11.47 to 11.79m)
46.73	11.32	100/2cm											45.12	12.93	No Recovery-Interpreted as Hard Weathered Rock: Granite
													44.57	13.48	Hard Rock: Pink, green, and white, fine to medium grained, moderately to slightly weathered, extremely fractured to sound, moderately hard Granite (2 joints at 45°; 2 joints at 80-90°; 2 joints at 20-30°)
													42.36	15.69	Boring terminated at 15.69m (Elev. 42.36m) in Hard Rock: Granite
															Bit used: 10.2cm roller cone and NQ core bit
															Drilling Fluid: Water

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



N.C.D.O.T. GEOTECHNICAL UNIT
CORE BORING REPORT

SHEET NO.	TOTAL SHEETS
80	107

SHEET 1 OF 1

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SITE DESCRIPTION Site 1: Dual Structures on Clayton bypass (-L-) over White Oak Creek (Austin pond)							GROUND WATER (m)			
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COLLAR ELEV. 58.05 m		NORTHING 208,415.3		EASTING 652,949.7			24 HR. N/A			
TOTAL DEPTH 15.69 m		DRILL MACHINE CME-45/buggy		DRILL METHOD Rotary Wash/NQ Core		HAMMER TYPE 63.5 kg manual				
DATE STARTED 7/31/01		COMPLETED 7/31/01		SURFACE WATER DEPTH 0.10m						
CORE SIZE NQ		TOTAL RUN 4.35 m		DRILLER D. White						
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (m) %	RQD (m) %		REC. (m) %	RQD (m) %		
										Begin Coring @ 11.34 m
46.71	11.34	1.35	4:49 3:43 2:34 2:17	(1.35) 100%	(0.71) 53%		(1.59) 100%	(0.85) 53%		Hard Rock: Green and white, fine to medium grained, moderately weathered, moderately to slightly fractured, moderately hard Granite (1 joint at 70-80° with mica and pyrite; 4 joints at 20-30°; extremely fractured zone from 11.47 to 11.79m)
45.36	12.69	1.50	3:42/0.15 1:55 1:51 2:23 2:13 2:14	(0.95) 63%	(0.76) 51%		(0.00) 0%	(N/A)		No Recovery-Interpreted as Hard Weathered Rock: Granite
43.86	14.19	1.50	2:08 3:05 3:24 2:29 5:06	(1.00) 67%	(0.00) 0%		(1.71) 77%	(0.62) 28%		Hard Rock: Pink, green, and white, fine to medium grained, moderately to slightly weathered, extremely fractured to sound, moderately hard Granite (2 joints at 45°; 2 joints at 80-90°; 2 joints at 20-30°)
42.36	15.69									Coring terminated at 15.69m (Elev. 42.36m) in Hard Rock: Granite

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