

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

Hard Rock: Granite

Bit used: 7.6cm roller cone and NQ core bit

Drilling Fluid: Water and 1.02g/cm³
Boring offset 2.4m LT (along bent) of proposed

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. B8-B LL BORING LOCATION 41+64.9 OFFSET 10.8m LT ALIGNMENT -L-0 HR. 0.46 COLLAR ELEV. 59.43 m NORTHING 208,431.7 **EASTING** 652,997.3 24 HR. 0.43 TOTAL DEPTH 16.55 m DRILL MACHINE CME-45/buggy DRILL METHOD Rotary Wash/Mud/Core HAMMER TYPE 63.5 kg manua DATE STARTED 9/6/01 COMPLETED 9/7/01 SURFACE WATER DEPTH N/A ELEV. DEPTH **BLOW COUNT** BLOWS PER 30 CM SAMP. (m) 15cm 15cm 15cm SOIL AND ROCK DESCRIPTION NO. MOI G 59.43 59.43 0.00 Alluvium: Brown and green, slightly sandy, clayey SILT (A-4) with roots M-W 57.08 7 2.35 Alluvium: Gray, slightly sandy, silty CLAY (A-6) with rounded gravel-sized rock fragments Alluvium: Tan, sandy, rounded quartz and gravel-sized rock fragment (Granite) GRAVEL W Residual: Tan and white, slightly sandy, clayey SILT (A-4) with relict rock fabric 53.96 ‡ 5.47 W 52.46 + 6.97 Soft Weathered Rock: Granite 24 40 100/30cm 52 48/5cm 100/20cm 49.44 + 9.99 30 70/14cm 48.43 + 11.00 Interpreted as Hard Weathered Rock: Granite 50/0cm (not sampled) Hard Rock: White and green with orange Fe oxide stain, fine to medium grained, moderately to slightly weathered, moderately fractured to sound, hard Granite (5 joints at 10-20° with orange fe oxide stain) No Recovery-Interpreted as Hard Weathered Rock: Granite Hard Rock: White, green, greenish gray, and pink, fine to medium grained, slightly weathered to fresh, slightly fractured to sound, hard to very hard Granite (3 joints at 10-20°; 1 joint at 70°) Boring terminated at 16.55m (Elev: 42.88m) in

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

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	CT NO.		311002			ID. R-2				COUNTY Johnston GEOLOGIST M. Lear		
	ESCRIP									er White Oak Creek (Austin pond) GROUND WATER (m)		
		B8-B				LOCATIO		1+64.9	***************************************	OFFSET 10.8m LT ALIGNMENT -L- 0 HR. 0.5		
	R ELEV			NORTI		208,43				EASTING 652,997.3 24 HR. 0.4		
	DEPTH			DRILL	MACH	HINE C			DRIL	L METHOD Rotary Wash/Mud/Core HAMMER TYPE 63.5 kg man		
DATE STARTED 9/6/01 COMPLETED 9/7/01									-	SURFACE WATER DEPTH N/A		
	SIZE N		DDIII	l pi	UN	TOTAL R			, , , , , , , , , , , , , , , , , , , 	DRILLER D. White		
ELEV.	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m	REC.	RQD (m)	SAMP. NO.	REC. (m) %	RQD (m) %	G G	DESCRIPTION AND REMARKS		
48.43 48.13			4:18 4:17	(0.30)	(0.28)	·	(1.52)	(1.02)	1	Begin Coring @ 11.00 m 8.43 Hard Rock: White and green with orange Fe oxide stain, fine to medium		
47.38		0.73	4:21	(0.75)	(0.40)	1	100%	6/%		grained, moderately to slightly weathered, moderately fractured to sound, hard Granite (5 joints at 10-20° with orange fe oxide stain)		
	12.00	1.50	2:48/0.15 3:48		(1.08)				∭ .			
			2:39 2:13	84%	72%		(0.00)			6.91 12 6.67 No Recovery-Interpreted as Hard Weathered Rock: Granite 12		
45.88	13.55		2:58 3:42				(3.76)	(3.66) 97%	>>>	Hard Rock: White, green, greenish gray, and pink, fine to medium grained, slightly weathered to fresh, slightly fractured to sound, bard to very bard Granite		
		1.50	4:26 3:44	(1.47) 98%	(1.42) 95%		99%		W F	(3 joints at 10-20°; 1 joint at 70°)		
			3:58	30%	3076							
44.38	15.05		3:58 4:11						>>>			
		1.50	4:35 4:52		(1.50) 100%				₩E.			
			5:00 5:00							•		
42.88	16.55		5:30			ļ			<u>_</u> 4	2.88		
									F	Coring terminated at 16.55m (Elev: 42.88m) in Hard Rock: Granite		
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