

PROJECT NO. 6.529005T		ID. R-2610B(1)		COUNTY Chatham		GEOLOGIST B. Deobald							
SITE DESCRIPTION Bridge on SBL US 421(-L-) over Bear Creek (MACTEC Proj. No. 6468-03-0124)							GROUND WATER (m)						
BORING NO. B1-A		BORING LOCATION 22+72.8		OFFSET 15.9m LT		ALIGNMENT -L-		0 HR. 0.90					
COLLAR ELEV. 116.02 m		NORTHING 206,647.5		EASTING 578,432.0				24 HR. 1.37					
TOTAL DEPTH 9.42 m		DRILL MACHINE CME-550		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 63.5kg Manual							
DATE STARTED 4/3/03		COMPLETED 4/4/03		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
116.02													Ground Surface
116.02	0.00	1	2	4							EFA	M	Residual: Brown, fine to coarse sandy, clayey SILT (A-4)
114.92	1.10												Shelby tube pushed from 0.10m to 0.80m at offset location, recovery=0.68m. Tube submitted to NCDOT for EFA analysis.
113.58	2.44	1	1	1							SS-2	31.4%	
	50/7cm												Weathered Rock: META-ARGILLITE Crystalline Rock: Gray, v. slightly weathered to fresh, v. closely to mod. closely fractured, hard META-ARGILLITE (2 joints at 80-90°w/ Fe stain and clay; 2 joints at 45°)
													Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
													Boring and Coring Terminated at 9.42m (Elev. 106.60m) in Crystalline Rock: META-ARGILLITE
													Bits Used: 9cm roller cone and HQ (Series 2) core bit
													Drilling Fluid Properties: Water

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DATE STARTED 4/3/03		COMPLETED 4/4/03		SURFACE WATER DEPTH N/A							
CORE SIZE HQ		TOTAL RUN 6.91 m		DRILLER D. Rhodes							
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 @ 2.51 m
113.51	2.51	0.74	1:45	(0.74)	(0.00)		(2.29)	(1.17)			Crystalline Rock: Gray, v. slightly weathered to fresh, v. closely to mod. closely fractured, hard META-ARGILLITE (2 joints at 80-90°w/ Fe stain and clay; 2 joints at 45°)
112.77	3.25		1:00/0.14	(1.55)	(1.17)						
		1.55	2:20	100%	75%						
			2:30								
			2:00								
			2:00								
111.22	4.80		2:05/0.35								Crystalline Rock: Gray, fresh, widely fractured, hard META-ARGILLITE
		1.55	2:15	(1.55)	(1.30)		(4.62)	(4.10)			
			1:50	100%	84%						
			1:30								
			1:35								
109.67	6.35		1:35/0.35								
		1.55	1:30	(1.55)	(1.50)						
			1:30	100%	97%						
			1:40								
			1:45								
108.12	7.90		2:00/0.35								
		1.52	1:30	(1.52)	(1.30)						
			1:45	100%	86%						
			1:50								
			1:50								
106.60	9.42		2:00/0.32								Coring Terminated at 9.42m (Elev. 106.60m) in Crystalline Rock: Fresh, widely fractured, hard META-ARGILLITE