

PROJECT NO. 6.529005T		ID. R-2610B(1)		COUNTY Chatham		GEOLOGIST B. Parks/M. Lear							
SITE DESCRIPTION Bridge on SBL US 421(-L-) over Bear Creek (MACTEC Proj. No. 6468-03-0124)						GROUND WATER (m)							
BORING NO. B2-A		BORING LOCATION 22+98.6		OFFSET 15.9m LT		ALIGNMENT -L-							
COLLAR ELEV. 116.76 m		NORTHING 206,664.7		EASTING 578,412.3		0 HR. 0.65							
TOTAL DEPTH 10.55 m		DRILL MACHINE CME-550		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 63.5kg Manual							
DATE STARTED 4/14/03		COMPLETED 4/14/03		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
116.76	0.00	6	5	4									Ground Surface
115.75	1.01	2	8	8									Residual: Tan and brown, f. to cse. sandy, clayey, SILT (A-4)
114.23	2.53	7	8	92/10cm									Weathered Rock: Greenish gray and tan-brown, severely weathered, very soft META-ARGILLITE Crystalline Rock: Gray and green, mod. to sli. weathered, v. closely to mod. closely fractured, hard META-ARGILLITE (5 joints at 70-80° w/ trace clay; 3 joints at 50-70°; 5 joints at 40-50° w/ trace clay and Fe staining)
													Non-recovered material from 5.21m to 5.99m was washed away due to inner barrel not being properly seated in outer barrel.
													Crystalline Rock: Gray and green, v. sli. weathered to fresh, v. closely to widely fractured, hard META-ARGILLITE (6 joints at 50-80° w/ calcite mineralization)
													Non-recovered material from 10.38-10.55 was left down hole due to core breaking off high in inner barrel.
													Boring and Coring Terminated at 10.55m (Elev. 106.21m) in Crystalline Rock: META-ARGILLITE
													Bits Used: 9cm roller cone and HQ (Series 2) core bit
													Drilling Fluid Properties: Water

NCDOT BORE E. BEARCREEK.GPJ NC_DOT.GDT 5/2/03

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TOTAL DEPTH 10.55 m		DRILL MACHINE CME-550		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 63.5kg Manual				
DATE STARTED 4/14/03		COMPLETED 4/14/03		SURFACE WATER DEPTH N/A						
CORE SIZE HQ				TOTAL RUN 7.62 m		DRILLER D. Rhodes				
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 @ 2.93 m
113.83	2.93	1.54	1:30 2:24 2:07 2:00 3:15/0.34	(1.54) 100%	(0.61) 40%		(0.17) 100% (2.11) 73%	(N/A) (0.92) 32%		Weathered Rock: Tan and brown, severely weathered, very soft META-ARGILLITE Crystalline Rock: Gray and green, mod. to sli. weathered, v. closely to mod. closely fractured, hard META-ARGILLITE (5 joints at 70-80° w/ trace clay; 3 joints at 50-70°; 5 joints at 40-50° w/ trace clay and Fe staining)
112.29	4.47	1.52	1:23 2:13 3:02 2:23 3:24/0.32	(0.74) 49%	(0.31) 20%					Non-recovered material from 5.21m to 5.99m was washed away due to inner barrel not being properly seated in outer barrel.
110.77	5.99	1.52	2:30 2:21 2:39 2:45 2:32/0.32	(1.52) 100%	(1.52) 100%		(4.39) 96%	(4.33) 95%		Crystalline Rock: Gray and green, v. sli. weathered to fresh, v. closely to widely fractured, hard META-ARGILLITE (6 joints at 50-80° w/ calcite mineralization)
109.25	7.51	1.52	2:52 3:10 3:07 4:00 4:17/0.32	(1.52) 100%	(1.46) 96%					Non-recovered material from 10.38-10.55 was left down hole due to core breaking off high in inner barrel.
107.73	9.03	1.52	3:23 4:34 3:41 5:27 6:09/0.32	(1.35) 89%	(1.35) 89%					
106.21	10.55									Coring Terminated at 10.55m (Elev. 106.21m) in Crystalline Rock: v. sli. weathered to fresh, mod. closely to widely fractured, hard META-ARGILLITE

NCDOT CORE SINGLE BEARCREEK.GPJ NC_DOT.GDT 5/2/03