



PROJECT NO. 6.529005T		ID. R-2610A		COUNTY Chatham		GEOLOGIST D. Goodnight							
SITE DESCRIPTION Site 2: Bridge on SBL US 421 (-L-) Over NSRR							GROUND WATER (m)						
BORING NO. B1-B		BORING LOCATION 27+81.2		OFFSET 7.2m LT		ALIGNMENT -L-							
COLLAR ELEV. 87.77 m		NORTHING 201441.35		EASTING 582550.94		0 HR. NM							
TOTAL DEPTH 12.85 m		DRILL MACHINE CME 850		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 63.5 kg Automatic							
DATE STARTED 11/11/02		COMPLETED 11/14/02		SURFACE WATER DEPTH NA									
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			
87.77													87.77 0.00
87.47	0.30	3	4	4								M	RESIDUAL: Medium Stiff to Hard Tan Fine Sandy Clayey SILT with a Trace of Organic Matter (Rootlets)
86.70	1.07	7	9	19								M	
85.94	1.83	14	20	21								M	
85.18	2.59	50	50/4										85.37 2.40
84.09	3.68	100/15											84.99 2.78
													WEATHERED ROCK: Red and Tan Weathered Triassic Mudstone Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone and Siltstone with Very Close to Close Fracture Spacing
82.57	5.20												82.88 4.89
		13	21	50								M	Reddish Brown, Very Severely Weathered, Very Soft, Friable Triassic Mudstone with Very Close to Close Fracture Spacing [Hard Reddish Brown Fine Sandy Clayey SILT (A-4)]
81.05	6.72	17	43	57									81.79 5.98
													Reddish Brown, Severely Weathered, Soft to Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
79.53	8.24	15	100/15										81.05 6.72
													Reddish Brown, Severely Weathered, Very Soft Friable Triassic Mudstone with Very Close to Close Fracture Spacing
78.01	9.76	100/12											79.23 8.54
													Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
76.49	11.28	64	36/5										78.01 9.76
													Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
74.97	12.80	50/5											76.82 10.85
													Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
													WEATHERED ROCK: Reddish Brown Weathered Triassic Mudstone Boring Terminated at Elevation 74.92m in Weathered Rock: Weathered Triassic Mudstone

NCDOT BORE SINGLE 07102018.GPJ NC_DOT.GDT 11/20/02



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TOTAL DEPTH 12.85 m		DRILL MACHINE CME 850		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 63.5 kg Automatic			
DATE STARTED 11/11/02		COMPLETED 11/14/02		SURFACE WATER DEPTH NA					
CORE SIZE HQ		TOTAL RUN 8.35 m		DRILLER R. Toothman					
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	REC. (%)	RQD (%)	SAMP. NO.	STRATA	LOG	DESCRIPTION AND REMARKS
							REC. (%)	RQD (%)	
									Begin Coring @ 2.78 m
84.99	2.78	0.90	4:14 7:29	(84% 0.76)	(NA)		(88% 1.72)	(NA)	84.99 Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone and Siltstone with Very Close to Close Fracture Spacing
84.09	3.68		6:30						Majority of jts @ 0° to 10° 1 jt @ 80° and 1 jt @ 90°
83.94	3.83	1.37	N=100/15 9:24/0.15 6:35 6:10 6:15 11:05 N=71	(70% 0.96)	(NA)				82.88 Reddish Brown, Very Severely Weathered, Very Soft, Friable Triassic Mudstone with Very Close to Close Fracture Spacing [Hard Reddish Brown Fine Sandy Clayey SILT (A-4)]
82.57	5.20						(45% 0.29)	(NA)	81.79 Reddish Brown, Severely Weathered, Soft to Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
82.12	5.65	1.07	3:20/0.16 5:00 4:34 7:47 N=100	(96% 1.03)	(NA)		(100% 0.74)	(NA)	81.05 2 jts @ 35° to 40° 1 jt @ 90° Reddish Brown, Severely Weathered, Very Soft, Friable Triassic Mudstone with Very Close to Close Fracture Spacing
81.05	6.72						(85% 0.91)	(NA)	79.23 Majority of jts @ 0° to 10°
80.60	7.17	1.07	4:00/0.16 16:02 10:24 12:35 N=100/15	(85% 0.91)	(NA)				79.23 Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
79.53	8.24								78.01 2 jts @ 10° and 1 jt @ 30°
79.23	8.54	1.22	5:02 5:20 4:50 6:50 N=100/12 0:50/0.18/1.37	(97% 1.18)	(NA)		(97% 0.94)	(NA)	78.01 Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Very Close to Close Fracture Spacing
78.01	9.76								76.82 Abundant intersecting low angle and high angle fractures
77.89	9.88	1.40	5:06 5:57 6:40 7:08 N=100/20 5:29/0.10 11:30 7:01 7:17 7:21 N=50/5	(98% 1.37)	(NA)		(90% 1.58)	(NA)	76.82 Reddish Brown, Severely Weathered, Medium Hard, Moderately Indurated Triassic Mudstone with Close to Moderately Close Fracture Spacing
76.49	11.28								Very broken 11.02m to 11.28m Very soft 11.48m to 11.68m Soft 11.84m to 11.99m Majority of jts @ 0° to 10° 1 jt @ 70°
76.29	11.48	1.32		(87% 1.15)	(NA)				74.97 12.80
74.97	12.80								74.92 Boring Terminated at Elevation 74.92m in Weathered Rock: Weathered Triassic Mudstone

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