



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

SHEET 1 OF 1

PROJECT NO. 8.2301001		ID. B-3182		COUNTY Halifax		GEOLOGIST M. Potratz								
SITE DESCRIPTION Bridge # 145 over Hawtree Creek on SR 1333							GROUND WATER (ft)							
BORING NO. B1-A		BORING LOCATION 14+96		OFFSET 8.0' LT.		ALIGNMENT -L-								
ELEV. 209.1 ft		NORTHING 906,274.2		EASTING 2,310,534.5										
TOTAL DEPTH 30.70 ft		DRILL MACHINE CME 550		DRILL METHOD HSA		HAMMER TYPE Manual								
DATE STARTED 12/18/03		COMPLETED 12/18/03		SURFACE WATER DEPTH 1.1										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI G	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
					Surface Water ()									
209.10	0.00	1	2	2								SS-3 W	209.1 0.0	ALLUVIUM: Loose, blue-gray, silty SAND (A-2-4(0)) with rock fragments.
	3.00	6	14	28								W	205.6 3.5	RESIDUAL: Hard, brown, SILT (A-4) with rock fragments.
205	8.00	43	22	24								W		
	12.90	33	50	50/0.1								W	196.2 12.9	WEATHERED ROCK: Gray METAMUDSTONE.
195												W	195.1 14.0	NON-CRYSTALLINE ROCK: Moderate to severe weathering, moderately hard to medium hard, gray and blue-green colored METAMUDSTONE with close to very close fracture spacing, iron staining on fracture surfaces, and zones of weathered rock (metamudstone).
	20.20	38	62/0									S		
185	25.70	50/0										S		
180	30.70	50/0										S	178.4 30.7	Boring terminated at Elev. 178.4 (30.7 feet) in NCR (METAMUDSTONE).

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO.: 8.2301001		I.D. NO.: B3182		BORING NO.: B1-A	
SITE DESCRIPTION: Bridge #145 over Hawtree Creek on SR 1333				CORE SIZE: HQ	
COLLAR ELEVATION: 209.1		DRILLER: Titan Drilling		GEOLOGIST: L. Clark	
TOTAL DEPTH: 30.7		TOTAL RUN: 16.7		PERSONNEL: Fletcher/Jordan	
DATE: 12/18/03		EQUIPMENT: CME 550			

ELEV. (ft)	DEPTH (ft)	DRILL RATE (MIN/ft)	RUN # (ft)	* REC (%)	RQD (%)	SAMP. NO.	FIELD CLASSIFICATION AND REMARKS
195.1	14.0	1:55/1.2	1	1.1	0		Moderate to severely weathered, moderately hard to medium hard, gray and blue-green METAMUDSTONE with close to very close fracture spacing, iron staining on fracture surfaces. SREC= 12.7/16.2= 78% SRQD= 1.0/16.2= 6% * Poor recovery due to washing away of severely weathered material
193.9	15.2		1.2	92%	0		
	15.2	2:15	2	3.2	0		
		2:15					
		2:50					
		2:35					
		2:30					
188.9	20.2		5.0	64%	0		
188.9	20.2	SPT N=100/0.5					
188.4	20.7						
	20.7	0:55	3	3.5	0		
		2:40					
		2:02					
		1:30					
		2:45					
183.4	25.7		5.0	70%	0		
183.4	25.7	SPT N=50/0					
183.4	25.7	2:00	4	4.9	1.0	RS-1	
		2:05				RS-2	
		2:20				RS-3	
		2:00				RS-4	
		2:05					
178.4	30.7		5.0	98%	20		
178.4	30.7	SPT N=50/0					
178.4	30.7						

Coring Terminated @ 30.7 feet.
Elevation 178.4 feet.

NCDOT_BORE 70035084.GI DOT.GDT 2/10/04