

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT CORE BORING REPORT

SHEET 1 OF 1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

SHEET 1 OF 1

PROJECT NO. 33375.1.1	ID. B-4007	COUNTY ALLEGHANY	GEOLOGIST TJ ROBERSON					
SITE DESCRIPTION BRIDGE NO.38 OVER CRAB CREEK ON NC 18			GROUND WATER					
BORING NO. EB1-A	BORING LOCATION 16+25.0	OFFSET 8.0 LT	ALIGNMENT -L-					
COLLAR ELEVATION 2424.9	NORTHING 1024783.7	EASTING 1411619.7						
TOTAL DEPTH 24.7	DRILL MACHINE CME 550X	DRILL METHOD HSA 2.25 INCH ID/ROTARY WLHQ	HAMMER TYPE 140LB. AUTO					
START DATE 06-08-05	COMPLETION DATE 06-09-05	SURFACE WATER DEPTH NA	DEPTH TO ROCK 14.7					
ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT	PEN. (FT.)	BLOWS PER FOOT	SAMP. NUM.	MOI.	LOG	SOIL AND ROCK DESCRIPTION
2424.9								2424.9 0.0
	3.5	22	7	5				ROADWAY EMBANKMENT FILL- Medium Dense, Gray, Brown, Slightly Micaceous Silty Fine to Coarse SAND, With Rock Fragments, (A-1-b)
2420.0								2417.9 7.0
	8.5	100/2						WEATHERED ROCK- Brown, Muscovite Biotite Gneiss, Moist, (WR)
2415.0								2411.4 13.5
	13.5	60/1						CRYSTALLINE ROCK- Gray, Brown, Muscovite Biotite Gneiss, Dry, (CR)
2410.0								2410.2 14.7
	14.7	60/0						CRYSTALLINE ROCK: Slight Weathering, Hard to Very Hard, Close to Moderatley Close Fracture Spacing, Gray, White, Muscovite Biotite Gneiss, (CR)
2405.0								2405.2 18.7
								CRYSTALLINE ROCK: Slight to Moderate Weathering, Hard to Moderately Hard, Close to Very Close Fracture Spacing, Gray, White, Muscovite Biotite Gneiss, (CR)
2400.0								2400.2 24.7
	24.7							CORING TERMINATED AT ELEVATION 2400.2 FEET IN CRYSTALLINE ROCK (MUSCOVITE BIOTITE GNEISS)

PROJECT NO.: 33375.1.1	ID.: B-4007	COUNTY: Alleghany	GEOLOGIST: TJ Roberson						
SITE DESCRIPTION: Bridge No 38. over Crab Creek on NC 18			GROUNDWATER (Ft.)						
BORING NO.: EB1-A	BORING LOCATION: 16+25.0	OFFSET: 8.0 LT	ALIGNMENT: -L-						
COLLAR ELEV.: 2424.9	NORTHING: 1024783.7	EASTING: 1411619.7							
TOTAL DEPTH: 24.7	DRILL MACHINE: CME 550 X	DRILL METHOD: Rotary	HAMMER TYPE: 140 LB AUTO						
DATE STARTED: 6/9/05	DATE COMPLETED: 6/9/05	SURFACE WATER DEPTH: N/A							
CORE SIZE: HQ	TOTAL RUN: 10.0	DRILLER: Ameridrill							
ELEV. (Ft.)	DEPTH (Ft.)	RUN (Ft.)	DRILL RATE (Min/Ft.)	REC %	RQD %	SAMP. NO.	STRATA REC %	RQD %	DESCRIPTION AND REMARKS
									2410.2 14.7
2410.2	14.7	1	3:02	2.2	1.7		4.8	3.9	Slight Weathering, Hard to Very Hard, Close to Moderately Close Fracture Spacing, Gray, White Muscovite Biotite Gneiss (CR)
			3:31						
			1:10/0.3						
2407.9	17.0	2.3		96	74				
2407.9	17.0	2	3:42	5.0	4.4		96	78	2405.2 19.7
			3:51				5.0	3.8	Slight to Moderate Weathering, Hard to Moderately Hard, Close to Very Close Fracture Spacing, Brown, Gray, White Muscovite Biotite Gneiss (CR)
			3:49						
			3:01						
2402.9	22.0	5.0	2:59	100	88				
2402.9	22.0	3	2:58	2.6	1.6				
			1:38						
			0:58/0.7						
2400.2	24.7	2.7		96	59		100	76	2400.2 24.7