



PROJECT NO. 8.2001201 ID. B-3914 COUNTY Transylvania ENG/GEO Johnson  
 SITE DESCRIPTION Bridge 116 Over Grady Fork Creek On S.R. 1105  
 BORING NO. EB1-B BORING LOCATION (STA.) 14+30 OFFSET 15' Rt. ALIGNMENT -L-  
 COLLAR ELEV. 2304.4 NORTHING 518,358.8 EASTING 874,775.4 GROUND WATER  
 TOTAL DEPTH 25.3 DRILL MACHINE CME-45C DRILL METHOD HSA/NXWL 0 HR. 3.0  
 DATE STARTED 5/7/03 DATE COMPLETED 5/7/03 HAMMER TYPE NA 24 HR. 2.0

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	W/GW	SOIL AND ROCK DESCRIPTION
		0.5 ft	0.5 ft	0.5 ft	0	20	40	60	80				
2304.4													Black, Gray & White, Severely Weathered Rock.
	0.0												
	5.1												Auger Refusal @ 5.1' (Elev. 2299.3') on Hard Rock (Gneiss), Begin Core in Black, Gray, White, Slightly Weathered Henderson Gneiss, Very Hard, Very Close Fracture Spacing.
	5.3												Black, Gray, White, Moderately Weathered to Fresh Henderson Gneiss, Medium Hard to Very Hard, Very Close to Close Fracture Spacing.
	10.3												Black, Gray, White, Severe to Slightly Weathered Henderson Gneiss, Soft to Hard, Fracture Spacing is Very Close.
	15.3												Black, Gray, White, Slightly Weathered to Fresh Henderson Gneiss, Medium Hard to Very Hard, Very Close to Close Fracture Spacing.
	20.3												Black, Gray, White Slightly Weathered to Fresh Henderson Gneiss, Medium Hard to Very Hard, Very Close to Close Fracture Spacing.
	25.3												Boring Terminated @ 25.3' (Elev. 2279.1) in Hard Rock (Gneiss). Water from Glady Fork Creek used as drilling fluid.
2280	25.3												
2279.1	25.3												

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL UNIT CORE BORING REPORT									
Project No.:	8.2001201	I.D. No.:	B-3914	Boring No.:	EB1-B				
Site Description:	Bridge 116 over Glady Fork Creek on SR1105			County:	Transylvania				
Collar Elev.:	2304.4'	Core Size:	NX	Equipment:	CME-45C				
Driller:	R. GRADY	Geologist:	Johnson	Personnel:	M. BROWN				
Total Depth:	25.3 ft	Total Run:	20.2ft	Date:	07MAY03				
Elev. (ft.)	Depth (ft.)	Drill Rate (min/ft)	Run	REC %	RQD %	SAMP No.	FIELD CLASSIFICATION AND REMARKS		
2299.3	5.1	0:19/0.2'	0.2	(0.1') 50	(0.0') 0		Blk, gry, wht, sli. Weathered Henderson gneiss, v. hard, v. close frac. spacing, Fe-stained. 5.1' to 5.3' - joints not measurable		
2299.1	5.3								
2299.1	5.3	0:47	5.0	(3.9') 78	(1.0') 20		Blk, gry, wht, mod. weathered to fresh Henderson gneiss, med. Hard to v. hard, v. close to close frac. spacing. Significant Fe-staining, augens. Some mineralization on joint faces. 5.3' to 10.3' - 8 joints @ 20°-30°, 12+joints @ 0°-10°		
		0:53							
		1:07							
		1:12							
2294.1	10.3	1:10	5.0	(0.9') 18	(0.0') 0		Blk, gry, wht, severe to slightly weathered Henderson gneiss, soft to hard, frac. spacing is v. close. Significant Fe-staining. Augens. 10.3' to 15.3' - 7+joints @ 0°		
2294.1	10.3	0:21							
		0:38							
		0:27							
2289.1	15.3	0:41	5.0	(2.8') 56	(0.0') 0		Blk, gry, wht, sli. weathered to fresh Henderson gneiss, med. hard to v. hard, v. close to close frac. spacing. Augens. Little Fe- staining. Pyrite on joint faces. 15.3' to 20.3' - 10+joints @ 20°-30°, 10+joints @ 0°-5°		
2289.1	15.3	0:26							
		0:34							
		0:31							
2284.1	20.3	0:40	5.0	(3.2') 64	(1.4') 28		Blk, gry, wht weathered to fresh Henderson gneiss, med. hard to v. hard, v. close to close frac. spacing, weathering and some Fe- stainig confined to 20.3'-22.6'. 20.3' to 25.3' - 3 joints @ 30°-45°, 7 joints @ 0°-5° SREC 54% (10.9) SRQD 12% (2.4) Coring terminated @ 25.3' (elev. 2279.1ft) in HR (gneiss)		
2284.1	20.3	0:42							
		1:06							
		1:03							
2279.1	25.3	2:57							