



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

PROJECT NO. 33253.1.1		ID No. B-3714		COUNTY Wilkes		GEOLOGIST P. Weaver/P. Alton							
SITE DESCRIPTION Bridge No. 83 over Mulberry Creek on NC 268							GROUND WATER (ft)						
BORING NO. TB1-B		BORING LOCATION 16+62		OFFSET 8ft RT		ALIGNMENT -L-							
COLLAR ELEV. 985.0 ft		NORTHING 895309.54		EASTING 1376385.42		0 HR. NM							
TOTAL DEPTH 56.8 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary		HAMMER TYPE 140lb Manual							
DATE STARTED 12/14/04		COMPLETED 12/16/04		SURFACE WATER DEPTH NA									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
985.0													985.0 0.00
984.0	1.0	3	8	3								W	ALLUVIAL: Medium Dense to Very Loose, Brown and Tan with Gray, Variably Micaceous, Silty, Coarse to Fine SAND with Some Gravel
981.5	3.5	WOH	WOH	2								SS-23	
979.0	6.0	2	2	3								W	
976.5	8.5	9	11	7								SS-24	ALLUVIAL: Medium Dense; Red, White and Brown; Micaceous; Silty; Fine to Coarse SAND and Gravel
971.5	13.5	14	19	36								M	NOTE: Blow count influenced by gravel ALLUVIAL: Gravel and Cobbles (Old Stream Bed Material) RESIDUAL: Hard, Tan to Brown and Gray, Micaceous, Coarse to Fine Sandy SILT (Saprolite)
966.5	18.5	16	29	44								SS-25	16.8%
961.5	23.5	15	16	27								M	
956.5	28.5	12	36	64/0.4									WEATHERED ROCK: Gray and Tan to Brown, Biotite Gneiss
951.5	33.5	50	50/0.3										949.5
948.9	36.1	15	19	31									RESIDUAL: Dense, Black and Brown, Micaceous, Silty, Coarse to Fine SAND (Saprolite)
943.9	41.1	35	59	41/0.3								RS-2	WEATHERED ROCK: White, Black and Brown; Severely Weathered; Soft; Biotite Gneiss with Very Close to Close Fracture Spacing
933.9	51.1	53	42	58/0.3									CRYSTALLINE ROCK: White with Tan and Gray, Slightly Weathered, Hard, Calc-Silicate Rock with Close Fracture Spacing
928.9	56.1	75	25/0.2										939.7
													WEATHERED ROCK: White and Brown Biotite Gneiss
													928.2
													Coring Terminated at Elevation 928.9ft in WEATHERED ROCK: Biotite Gneiss
													Boring Terminated at Elevation 928.2ft in WEATHERED ROCK: Biotite Gneiss
													NOTE: Bentonite and creek water used as drilling fluid
													Mud density = 71.8lbs/cu. ft. at 40.0ft

NCDOT BORE SINGLE 07104040.GPJ NC\_DOT\_GDT 12/23/04



CORE BORING REPORT  
SHEET 23 OF 40

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COLLAR ELEV. 985.0 ft		NORTHING 895309.54		EASTING 1376385.42		0 HR. NM				
TOTAL DEPTH 56.8 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary		HAMMER TYPE 140lb Manual				
DATE STARTED 12/14/04		COMPLETED 12/16/04		SURFACE WATER DEPTH NA						
CORE SIZE HQ & HA				TOTAL RUN 17.7 ft		DRILLER R. Toothman				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %		
										Begin Coring @ 34.3 ft
950.7	34.3	1.8	3:00	(0.0)	(NA)		(0.0)	(NA)		949.5 WEATHERED ROCK: Gray and Tan to Brown, Biotite Gneiss 35.5
948.9	36.1		1:35/0.8	0%			(0.0)	(NA)		RESIDUAL: Dense, Black and Brown, Micaceous, Silty, Coarse to Fine SAND (Saprolite)
947.4	37.6	3.5	1:11/0.5	(0.9)	(NA)		(0.0)	(NA)		946.9 WEATHERED ROCK: White, Black and Brown; Severely Weathered; Soft; Biotite Gneiss with Very Close to Close Fracture Spacing 38.1
943.9	41.1		2:47	26%			(1.1)	24%		
			2:04							
942.6	42.4	3.7	N=100/0.8	(2.9)	(1.9)	RS-2	(2.7)	(1.9)		942.4 CRYSTALLINE ROCK: White with Tan and Gray, Slightly Weathered, Hard, Calc-Silicate Rock with Close Fracture Spacing 42.6
938.9	46.1		1:40/0.7	78%	51%		(0.0)	(NA)		939.7 Majority of Fractures at 20° to 30° 1 Vertical Fracture from 42.6ft to 42.8ft WEATHERED ROCK: White and Brown Biotite Gneiss 45.3
		5.0	2:26	(0.0)	(NA)					
			1:05							
933.9	51.1		1:50							
			1:46							
			1:30							
			1:35							
932.6	52.4	3.7	N=100/0.8	(0.0)	(NA)					
			0:41/0.7	0%						
928.9	56.1		1:16							
928.2	56.8		1:30							
			2:03							
			N=100/0.2							
										Coring Terminated at Elevation 928.9ft in WEATHERED ROCK: Biotite Gneiss
										Boring Terminated at Elevation 928.2ft in WEATHERED ROCK: Biotite Gneiss
										NOTE: Bentonite and creek water used as drilling fluid
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