



PROJECT NO. 8.2721501		ID. B-3808		COUNTY Avery		GEOLOGIST D. Goodnight/P. Weaver								
SITE DESCRIPTION Bridge No. 58 Over Henson Creek on SR1126 (Henson Creek Road)						GROUND WATER (ft)								
BORING NO. EB1-B		BORING LOCATION 17+00		OFFSET 13ft RT	ALIGNMENT -L-	0 HR.	NM							
COLLAR ELEV. 3178.0 ft		NORTHING 847032.99		EASTING 1099103.33		24 HR.	4.8							
TOTAL DEPTH 47.3 ft		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary		HAMMER TYPE 140 lb. Manual								
DATE STARTED 12/29/03		COMPLETED 12/29/03		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	
3,178.0													3,178.0 0.00	
3,177.0	1.0	4	2	1									3,177.0 1.00	ROADWAY EMBANKMENT FILL: Very Loose, Brown, Gravel and Silty, Coarse to Fine SAND
3,174.5	3.5	3	1	WOH									3,174.5 3.50	
3,172.0	6.0	4	3	10									3,172.0 6.00	COLLUVIUM: Medium Dense to Dense, Brown, Fine to Coarse SAND and Gravel with a Trace of Silt
3,169.5	8.5	5	12	35									3,169.5 8.50	
3,164.5	13.5	18	73	27/0.3									3,164.5 13.50	WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,160.7	17.3	40	50	32									3,160.7 17.30	RESIDUAL: Very Dense, Tan, Saprolitic, Clayey, Silty, Coarse to Fine SAND
3,155.7	22.3												3,155.7 22.30	WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Very Soft to Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,150.7	27.3												3,150.7 27.30	CRYSTALLINE ROCK: Brown, White, and Dark to Light Grey; Moderately Severely to Moderately Weathered, Medium Hard to Moderately Hard; Moderately to Well Foliated; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,145.7	32.3												3,145.7 32.30	CRYSTALLINE ROCK: Tan and Brown, Moderately Severely Weathered, Soft, Well Foliated, Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing
													3,144.3 33.70	WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Very Soft to Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
													3,143.3 33.70	CRYSTALLINE ROCK: Tan and Brown, Moderately Severely Weathered, Soft, Well Foliated, Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing
													3,142.3 33.70	CRYSTALLINE ROCK: Tan, White, and Light to Dark Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; Moderately to Well Foliated; Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing
													3,141.3 33.70	CRYSTALLINE ROCK: Tan, White, and Light to Dark Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; Moderately to Well Foliated; Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing
													3,140.7 37.30	Majority of jts @ 30° to 40° parallel to foliation with iron staining Vertical fracture from 40.6 feet to 42.3 feet Soft, moderately severely weathered on 1/2 of vertical fracture from 41.3 feet to 41.7 feet 80° jt from 42.4 feet to 43.1 feet 70° jt from 43.5 feet to 43.9 feet Coring Terminated at Elevation 3130.7 feet in Crystalline Rock: Biotite-Hornblende Gneiss

Note: Drill Fluid = Creek Water Alone

NCDOT BORE SH. 07103034.GPJ NC_DOT.GDT 1/30/04



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COLLAR ELEV. 3178.0 ft		NORTHING 847032.99		EASTING 1099103.33		24 HR.	4.8			
TOTAL DEPTH 47.3 ft		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary		HAMMER TYPE 140 lb. Manual				
DATE STARTED 12/29/03		COMPLETED 12/29/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 30.0 ft		DRILLER B. Shull						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft)%	RQD (ft)%		REC. (%)	RQD (%)		
										Begin Coring @ 14.8 ft
3,163.2	14.8	2.5	1:20 0:51	(0.2) 8%	(NA)		(0.2) 20%	(NA)		WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,160.7	17.3		0:44/0.5			SS-5	(0.0) 0%			1 fragment of strong rock recovered RESIDUAL: Very Dense, Tan, Saprolitic, Clayey, Silty, Coarse to Fine SAND
3,159.2	18.8	3.5	N=82 0:54/0.5 0:43	(0.1) 3%	(NA)					
3,155.7	22.3		0:39							
3,155.2	22.8	4.5	N=100/0.9 0:53/0.5	(1.3) 29%	(NA)		(1.6) 30%	(NA)		WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Very Soft to Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,150.7	27.3		2:11 0:50							
3,150.3	27.7	4.6	1:15 1:37	(3.2) 70%	(0.6) 13%		(1.5) 94%	(0.6) 38%		CRYSTALLINE ROCK: Brown, White, and Dark to Light Grey; Moderately Severely to Moderately Weathered, Medium Hard to Moderately Hard; Moderately to Well Foliated; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,145.7	32.3		N=100/0.4 0:52/0.6				(1.5) 63%	(NA)		
3,145.6	32.4	4.9	1:00 1:34 1:50 2:02	(4.8) 98%	(2.0) 41%		(1.2) 86%	(0.0) 0%		jts @ 20° to 30° parallel to foliation with heavy iron staining
3,140.7	37.3		N=60/0.1				(13.6) 100%	(5.2) 38%		WEATHERED ROCK: White, Grey, and Brown; Severely Weathered; Very Soft to Soft; Biotite-Hornblende Gneiss with Very Close Fracture Spacing
3,135.7	42.3	5.0	1:52/0.9 1:51 2:01 3:02 2:16	(5.0) 100%	(1.5) 30%					CRYSTALLINE ROCK: Tan and Brown, Moderately Severely Weathered, Soft, Well Foliated, Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing
3,130.7	47.3		3:08 3:05 2:53 3:00 3:18 2:55 2:58 3:58 3:26 3:37							CRYSTALLINE ROCK: Tan, White, and Light to Dark Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; Moderately to Well Foliated; Biotite-Hornblende Gneiss with Very Close to Close Fracture Spacing

NCDOT CORE SINGLE 07103034.GPJ NC_DOT.GDT 1/29/04