



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. EB2-A		BORING LOCATION 17+27		OFFSET 13ft LT		ALIGNMENT -L-							
COLLAR ELEV. 3177.5 ft		NORTHING 847043.78		EASTING 1099139.22		0 HR. NM							
TOTAL DEPTH 28.6 ft		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary		HAMMER TYPE 140 lb. Manual							
DATE STARTED 12/23/03		COMPLETED 12/23/03		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
3,177.5													3,177.5 0.00
3,176.5	1.0	30	13	7									ROADWAY EMBANKMENT FILL: Medium Dense, Brown, Clayey, Silty, Coarse to Fine SAND with Gravel
3,174.0	3.5	4	3	9									ROADWAY EMBANKMENT FILL: Medium Dense to Dense, Brown, Gravel and Silty, Coarse to Fine SAND
3,171.5	6.0	11	16	31									*Note: Blow count at 7.0 feet influenced by
3,169.0	8.5	60/0.1											CRYSTALLINE ROCK: Light to Dark Grey with White, Slightly Weathered, Hard, Moderately Foliated Biotite Gneiss with Very Close to Close Fracture Spacing
3,163.9	13.6	70	30/0.1										WEATHERED ROCK: White and Brown, Severely Weathered, Soft, Biotite Gneiss with Very Close to Close Fracture Spacing
													CRYSTALLINE ROCK: Brown and Grey with White, Moderately to Slightly Weathered, Moderately Hard to Hard, Moderately Foliated Biotite-Mica Gneiss with Very Close to Close Fracture Spacing
													CRYSTALLINE ROCK: Light and Dark Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Well Foliated Biotite Gneiss with Moderately Close Fracture Spacing and with Traces of Pyrite
													Coring Terminated at Elevation 3148.9 feet in Crystalline Rock: Biotite Gneiss

Note: Drill Fluid = Creek Water Alone

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



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. EB2-A		BORING LOCATION 17+27		OFFSET 13ft LT		ALIGNMENT -L-				
COLLAR ELEV. 3177.5 ft		NORTHING 847043.78		EASTING 1099139.22		0 HR. NM				
TOTAL DEPTH 28.6 ft		DRILL MACHINE Mobile B-57		DRILL METHOD Wash Rotary		HAMMER TYPE 140 lb. Manual				
DATE STARTED 12/23/03		COMPLETED 12/23/03		SURFACE WATER DEPTH NA						
CORE SIZE HQ			TOTAL RUN 19.4 ft			DRILLER B. Shull				
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft)	ROD (ft)		REC. (%)	ROD (%)		
										Begin Coring @ 8.6 ft
3,168.9	8.6	5.0	2:42 2:30 3:10 1:44 0:26	(1.5) 30%	(0.0) 0%		(0.8) 80%	(0.0) 0%		CRYSTALLINE ROCK: Light to Dark Grey with White, Slightly Weathered, Hard, Moderately Foliated Biotite Gneiss with Very Close to Close Fracture Spacing
3,163.9	13.6						(1.3) 26%	(NA)		2 jts @ 0° to 10° with heavy iron staining 1 jt @ 45° parallel to foliation
3,163.3	14.2	4.4	N=100/0.6 1:07/0.4 1:02 3:45 4:19 5:10	(3.9) 89%	(1.7) 39%		(8.8) 98%	(5.4) 60%		WEATHERED ROCK: White and Brown, Severely Weathered, Soft, Biotite Gneiss with Very Close to Close Fracture Spacing
3,158.9	18.6	5.0	4:59 4:26 3:51 3:50 3:41 3:52 3:22 3:39 3:28	(5.0) 100%	(3.7) 74%					Almost all of fabric is heavily iron stained CRYSTALLINE ROCK: Brown and Grey with White, Moderately to Slightly Weathered, Moderately Hard to Hard, Moderately Foliated Biotite-Mica Gneiss with Very Close to Close Fracture Spacing
3,153.9	23.6	5.0		(5.0) 100%	(3.9) 78%		(4.5) 100%	(3.9) 87%		Majority of jts @ 20° to 30° parallel to foliation with heavy iron staining Quartz seams from 15.7 feet to 15.9 feet and 16.5 feet to 17.5 feet Severely weathered and soft 17.5 feet to 17.8 feet and 21.5 feet to 22.2 feet CRYSTALLINE ROCK: Light and Dark Grey with White, Slightly to Very Slightly Weathered, Hard to Very Hard, Well Foliated Biotite Gneiss with Moderately Close Fracture Spacing and with Traces of Pyrite
3,148.9	28.6									jts @ 35° to 45° parallel to foliation Moderately severely weathered and soft with very close fracture spacing from 25.1 feet to 25.4 feet Moderately weathered and moderately hard with very close fracture spacing from 26.5 feet to 26.8 feet Coring Terminated at Elevation 3148.9 feet in Crystalline Rock: Biotite Gneiss

NCDOT CORE SINGLE 07103034.GPJ NC_DOT.GDT 1/28/04