

GEOTECHNICAL BORING REPORT BORE LOG

WBS 006-01-06088	TIP N/A	COUNTY AVERY	GEOLOGIST J. Baskin
SITE DESCRIPTION 2053 Big Horse Creek Rd. for Bridge over Creek			GROUND WTR (ft)
BORING NO. EB1	STATION N/A	OFFSET N/A	0 HR. 6.4
COLLAR ELEV. 995.5 ft	TOTAL DEPTH 30.2 ft	NORTHING 875,808	24 HR. FIAD
DRILL RIG/HAMMER EFF./DATE F&R7348 CME-750X 87% 12/20/2024		DRILL METHOD H.S. Augers	HAMMER TYPE Automatic
DRILLER S. Davis	START DATE 11/18/25	COMP. DATE 11/18/25	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	DEPTH (ft)		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						
1000																
995	995.5	0.0												995.5	GROUND SURFACE	0.0
	992.8	2.7	2	3	2	5						M		993.5	ROADWAY EMBANKMENT Brown, Clayey Silty Fine to Coarse SAND (A-2-4) with Trace Gravel and Roots	2.0
	991.3	4.2	11	14	11	14						W			ALLUVIAL Gray, Silty Fine to Coarse SAND (A-1-b) with Gravel	
990												Sat.				
	987.0	8.5	24	22	24	25						Sat.		986.0	RESIDUAL Black-Orange-Tan, Clayey Silty Fine to Coarse SAND (A-2-4) with Trace Rock Fragments	9.5
985												W		983.5	Orange-Green, Fine to Coarse Sandy Clayey SILT (A-4) with Trace Rock Fragments and Mica	12.0
	982.0	13.5	35	38	49	46								978.5	WEATHERED ROCK Tan-Orange and Black AMPHIBOLITE	17.0
980																
	977.0	18.5	66	34/0.3												
975																
	972.0	23.5	75	25/0.2												
970																
	967.0	28.5	10	15	100/0.5											
	965.4	30.1	60/0.1											965.4	CRYSTALLINE ROCK Black AMPHIBOLITE	30.1
														965.3	Boring Terminated with Standard Penetration Test Refusal at Elevation 965.3 ft in CRYSTALLINE ROCK (AMPHIBOLITE)	30.2

DRAFT

NCDOT BORE SINGLE SITE 006-01-06088 AVERY COUNTY BORING LOGS.GPJ NC_DOT_GDT 11/21/25

GEOTECHNICAL BORING REPORT CORE LOG

WBS 095-01-3e0cf				TIP N/A		COUNTY WATAUGA			GEOLOGIST J. Baskin			
SITE DESCRIPTION 301 Spice Creek Rd. for Bridge over Spice Branch										GROUND WTR (ft)		
BORING NO. EB1				STATION N/A			OFFSET N/A		ALIGNMENT N/A			
COLLAR ELEV. 997.2 ft				TOTAL DEPTH 14.5 ft			NORTHING 914,591		EASTING 1,158,953			
DRILL RIG/HAMMER EFF./DATE F&R7348 CME-750X 87% 12/20/2024						DRILL METHOD NW Casing W/SPT & Core			HAMMER TYPE Automatic			
DRILLER S. Davis				START DATE 11/17/25			COMP. DATE 11/17/25		SURFACE WATER DEPTH N/A			
CORE SIZE NQ3				TOTAL RUN 11.0 ft								
ELEV (ft)	RUN ELEV (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		STRATA		L O G	DESCRIPTION AND REMARKS	DEPTH (ft)	
					REC. (ft) %	RQD (ft) %	REC. (ft) %	RQD (ft) %				
993.72	993.7	3.5	1.0	N=60/0.0 3:59/1.0	(0.9) 90%	(0.5) 50%	(10.3) 94%	(8.3) 75%		Begin Coring @ 3.5 ft		
	992.7	4.5	5.0	3:04/1.0 4:32/1.0 4:57/1.0 4:49/1.0 4:26/1.0	(4.6) 92%	(3.7) 74%				993.7	3.5	
990											Fresh to Very Slightly Weathered, Hard to Very Hard, Pink-Gray ORTHOGNEISS with Close to Moderately Close Fracture Spacing	
	987.7	9.5										
985			5.0	5:13/1.0 4:55/1.0 3:03/1.0 2:52/1.0 3:05/1.0	(4.8) 96%	(4.1) 82%						
	982.7	14.5								982.7	14.5	
										Boring Terminated at Elevation 982.7 ft in CRYSTALLINE ROCK (ORTHOGNEISS)		

DRAFT

NCDOT CORE SINGLE SITE 095-01-3E0CF COUNTY BORING LOGS.GPJ NC_DOT.GDT 11/21/25



CORE PHOTOGRAPH (EB-1): Replace Driveway over Spice Branch on Spice Creek Rd

