

State Project No. 8.2721501  
 TIP No. B-3808 WBS Element No. 33263.1.1  
 Bridge No. 58 over Henson Creek on SR 1126 (Henson Creek Road)  
 Avery County, North Carolina

**SUMMARY OF LABORATORY TEST DATA**

Boring Number	Sample Depth (ft.)	Sample No.*	Natural Moisture Content (%)	AASHTO Class (Group Index)	N-Value (blows/ft.)	Atterberg Limits				Gradation Results						
						L.L.	P.L.	P.I.	Pass #10 Sieve	Pass #40 Sieve	Pass #200 Sieve	Retained #270 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
EB1-A	6.0-7.5	SS-1	-	A-1-a (0)	50	15	NP	NP	32	22	6	95	48	38	12	2
EB1-A	13.5-15.0	SS-2	-	A-2-4 (0)	40	22	NP	NP	97	87	21	85	26	59	9	6
EB1-B	1.0-2.5	SS-3	-	A-1-a (0)	3	25	NP	NP	23	19	7	94	30	44	23	3
EB1-B	6.0-7.5	SS-4	-	A-1-b (0)	13	20	NP	NP	50	32	8	93	52	35	9	4
EB1-B	17.3-18.8	SS-5	-	A-2-4 (0)	82	22	NP	NP	100	95	30	77	18	59	13	10
EB2-A	1.0-2.5	SS-6	-	A-2-4 (0)	20	24	NP	NP	72	62	24	79	27	44	16	13
EB2-A	6.0-7.5	SS-7	-	A-1-b (0)	47	23	NP	NP	49	43	13	89	29	49	17	5
EB2-B	1.0-2.5	SS-8	-	A-2-4 (0)	8	22	NP	NP	61	52	19	84	25	49	17	9
SBD-1	0.0-0.5	G-1	-	A-1-a (0)	NA	14	NP	NP	21	9	1	99	74	22	4	0
SBD-2	0.0-0.5	G-2	-	A-1-a (0)	NA	13	NP	NP	30	24	2	98	50	44	5	1

\* SS = Split-Spoon Sample (ASTM-D-1586)

\*\* G = Grab Sample

\*\*\*ST=Shelby Tube (Undisturbed) Sample

NP -- Non Plastic

NA-- Non Applicable

TRIGON ENGINEERING CONSULTANTS, INC.  
 GREENSBORO, NORTH CAROLINA  
 Trigon Job Number: 071-03-034

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**LABORATORY SUMMARY SHEET FOR ROCK CORE SAMPLES**

PROJECT NO.: 8.2721501 (B-3808)  
 F.A. NO.: BRZ-1126(2)  
 COUNTY: Avery  
 DESCRIPTION: Bridge No. 58 over the Henson Creek on SR 1126

Sample #	Boring #	Depth (ft.)	Rock Type	Geologic Map Unit	Run RQD	Length (ft.)	Diameter (ft.)	Dry Density (lbs/cu. ft.)	Unconfined Compressive Strength (psi)	Maximum Load (lbs.)	Loading Rate (in./min.)
RS-1	EB1-A	23.7-24.1	Biotite-Hornblende Gneiss	Ymg	70%	0.4203	0.2083	184.1	5,978	29,330	0.009
RS-2	EB2-A	16.2-16.6	Biotite-Mica Gneiss	Ymg	39%	0.3863	0.2083	163.3	4,325	21,220	0.009