

State Project #: 8.2352201
 Tip#: B-2963
 Federal Aid #: BRSTP - 1107 (4)
 Description: Bride 111 over New Hope Creek on SR 1107

SUMMARY OF LABORATORY RESULTS

Boring No.	Sample No.	Depth Interval (m)	% Pass #10	% Pass #40	% Pass #200	Coarse Sand	Fine Sand	Silt	Clay	LL	PL	PI	% Moist	AASHTO Class
EB1-A	SS-36	19.1-20.6	99	85	29	28	47	13	12	22	22	0	24	A-2-4 (0)
EB1-B	SS-40	4.1-5.6	99	96	83	5	16	29	50	49	21	28	32	A-7-6 (24)
B1-A	SS-65	1.1-2.6	100	98	86	3	16	44	37	32	19	13	28	A-6 (10)
B1-A	SS-68	13.6-15.1	100	99	19	13	71	3	13	20	20	0	26	A-2-4 (0)
B1-B	SS-57	8.7-10.2	100	99	91	3	6	21	70	43	20	23	30	A-7-6 (22)
B1-B	SS-58	13.7-15.2	99	97	91	4	14	58	24	31	23	8	12	A-4 (7)
B2-A	SS-23	3.6-5.1	81	77	53	26	27	24	23	26	16	10	22	A-4 (2)
B2-B	SS-48	8.9-10.4	100	99	51	4	50	31	15	22	20	0	32	A-4 (0)
B2-B	SS-49	13.9-14.8	95	79	35	30	39	20	11	18	18	0	19	A-2-4 (0)
EB2-A	SS-1	1.1-2.6	76	64	38	42	26	10	22	26	18	8	11	A-4 (0)
EB2-A	SS-3	9.6-10.3	100	99	86	3	14	19	64	39	20	19	32	A-6 (16)
EB2-B	SS-15	9.0-10.5	99	97	88	4	14	35	47	30	16	14	24	A-6 (11)
EB2-B	SS-17	19.0-20.5	100	99	84	2	18	36	44	31	16	15	23	A-6 (11)

PROJECT: 8.2352201 ID: B - 2963 COUNTY: Durham

DESCRIPTION(1): Bridge 111 over New Hope Creek on SR 1107

INFORMATION ON EXISTING BRIDGES Information obtained from X field inspection
 microfilm (Reel: Position:)
 other

COUNTY BRIDGE NO. 111 BRIDGE LENGTH 137 ft NO.BENTS 9 NO. BENTS IN: CHANNEL 4, FLOOD PLAIN 5

FOUNDATION TYPE: Timber piles and beams

EVIDENCE OF SCOUR(2):

ABUTMENTS OR END BENT SLOPES: None

INTERIOR BENTS: None

CHANNEL BED: None

CHANNEL BANKS: None

EXISTING SCOUR PROTECTION:

TYPE(3): Large Rip Rap, Class 2 or Larger

EXTENT(4): Rip Rap extends from the spillway 200 ft upstream to approx. 50 ft downstream of the bridge.

EFFECTIVENESS(5): Good

OBSTRUCTIONS(6) (DAMS, DEBRIS, ETC.): Dam/spillway exists approximately 200ft upstream from bridge.

DESIGN INFORMATION

CHANNEL BED MATERIAL(7) (SAMPLE RESULTS ATTACHED): Channel bed is sand and silt. Grain size curve for each strata of alluvium is attached.

CHANNEL BANK MATERIAL(8) (SAMPLE RESULTS ATTACHED): Rip Rap lined banks

FOUNDATION BEARING MATERIAL(9): SWR & hard rock

CHANNEL BANK COVER(10): Rip Rap with Vines and Weeds

FLOOD PLAIN WIDTH(11): 2,000ft

FLOOD PLAIN COVER(12): Grass and heavily wooded