

Dual Bridges on -L- (US 70) over -Y5A, -Y5-, and -Y5B- (Norfolk Southern Railroad)  
Iredell County, North Carolina

SUMMARY OF LABORATORY TEST DATA - LEFT LANE

Boring Number	Sample Depth (m)	Sample No.*	Natural Moisture Content (%)	AASHTO Class (Group Index)	N-Value (blows/30cm)	Atterberg Limits			Gradation Results							
						L.L.	P.L.	P.I.	Pass #10 Sieve	Pass #40 Sieve	Pass #200 Sieve	Pass #270 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
EB1-A LT	7.16-7.61	SS-1	49.5	A-5 (0)	16	46	44	2	100	88	41	39	40	21	22	17
EB1-A LT	2.59-3.20	ST-2**	34.0	A-7-5 (6)	±13	54	42	12	100	94	56	-	14.4	36.3	33.1	16.2
EB1-B LT	0.30-0.75	SS-2	34.8	A-7-5 (28)	12	67	35	32	99	93	74	72	12	16	13	59
EB1-B LT	10.21-10.66	SS-3	53.8	A-5 (1)	16	45	42	3	100	92	50	39	13	48	23	16
BI-A LT	1.07-1.52	SS-4	38.0	A-5 (0)	9	42	39	3	100	90	48	38	19	43	22	16
BI-A LT	13.26-13.71	SS-5	-	A-2-5 (0)	51	47	NP	NP	100	81	27	21	34	45	21	0
BI-B LT	4.12-4.57	SS-6	-	A-2-5 (0)	8	48	NP	NP	100	84	29	23	33	44	14	9
BI-B LT	8.69-9.14	SS-7	-	A-2-4 (0)	10	32	NP	NP	100	75	20	18	43	39	13	5
EB2-A LT	0.30-0.75	SS-8	23.9	A-5 (1)	18	41	34	7	100	81	45	44	33	23	14	30
EB2-A LT	1.07-1.52	SS-9	31.6	A-5 (0)	19	41	NP	NP	100	94	55	48	14	37	33	16
EB2-A LT	3.34-4.10	ST-3**	41.0	A-7-5 (8)	±13	57	39	18	95	91	53	-	12.5	39.8	33.5	14.2
EB2-A LT	11.73-12.18	SS-10	47.1	A-5 (0)	15	45	NP	NP	100	95	46	39	16	46	29	9
EB2-B LT	1.83-2.28	SS-11	34.3	A-5 (0)	11	45	NP	NP	100	92	47	42	18	39	31	12
EB2-B LT	13.26-13.71	SS-12	38.8	A-5 (0)	21	42	NP	NP	100	90	45	40	21	39	33	7
EB2-B LT	16.31-16.76	SS-13	-	A-2-4 (0)	31	36	NP	NP	100	81	29	24	35	41	20	4

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

\*\*ST=Shelby Tube (Undisturbed) Sample-Tested by NCDOT Soils Lab

NP=Non Plastic

TRIGON ENGINEERING CONSULTANTS, INC.  
GREENSBORO, NORTH CAROLINA  
Trigon Job Number: 071-02-019  
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State Project No. 8.1631801  
TIP No. R-2911A

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SUMMARY OF LABORATORY TEST DATA - RIGHT LANE

Boring Number	Sample Depth (m)	Sample No.*	Natural Moisture Content (%)	AASHTO Class (Group Index)	N-Value (blows/30cm)	Atterberg Limits			Gradation Results							
						L.L.	P.L.	P.I.	Pass #10 Sieve	Pass #40 Sieve	Pass #200 Sieve	Pass #270 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
EB1-A RT	2.59-3.04	SS-14	47.9	A-5 (2)	15	48	45	3	100	84	53	47	23	30	26	21
EB1-A RT	13.26-13.71	SS-15	-	A-2-5 (0)	15	44	NP	NP	97	73	22	18	40	42	13	5
EB1-B RT	8.69-9.14	SS-16	-	A-2-5 (0)	13	46	NP	NP	100	79	30	26	35	39	18	8
BI-A RT	0.30-0.75	SS-17	-	A-2-5 (0)	6	47	NP	NP	100	83	33	28	32	40	16	12
BI-A RT	10.21-10.66	SS-18	-	A-2-4 (0)	6	39	NP	NP	100	81	31	25	32	44	15	9
BI-B RT	5.64-6.09	SS-19	-	A-2-5 (0)	9	49	NP	NP	100	81	25	20	36	44	12	8
BI-B RT	10.21-10.66	SS-20	-	A-2-5 (0)	9	46	NP	NP	100	76	23	18	40	42	10	8
B2-A RT	1.07-1.52	SS-21	38.7	A-4 (0)	11	47	NP	NP	99	91	50	43	17	40	31	12
B2-A RT	14.78-15.23	SS-22	-	A-2-4 (0)	49	31	NP	NP	100	82	28	23	31	47	19	3
B2-B RT	5.64-6.09	SS-23	47.6	A-5 (0)	9	44	NP	NP	100	88	37	32	24	45	26	5
EB2-A RT	1.07-1.52	SS-24	24.1	A-4 (1)	28	40	NP	NP	100	86	62	57	19	23	40	18
EB2-A RT	7.16-7.67	SS-25	33.5	A-4 (0)	15	23	NP	NP	100	82	39	35	30	36	27	7
EB2-A RT	14.78-15.23	SS-26	38.0	A-4 (0)	19	38	NP	NP	100	84	42	38	27	35	30	8
EB2-B RT	5.64-6.09	SS-27	51.1	A-5 (8)	7	48	40	8	100	97	74	70	6	24	40	30
EB2-B RT	17.83-18.28	SS-28	-	A-2-4 (0)	41	32	NP	NP	100	86	34	27	26	47	21	6

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

\*\* S = Bulk Sample

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

NP -- Non Plastic

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