

North Carolina Department of Transportation
 Division of Highways
 Materials and Test Unit
 Soils Laboratory

M&T Form 503

T.I.P. ID NO.: R-2552B

REPORT ON SAMPLES OF: SOIL FOR QUALITY

PROJECT: 8.T311002
 DATE SAMPLED: July 2001
 SAMPLED FROM: -Y11-REV
 SUBMITTED BY: L.B. Gilchrist

COUNTY: Johnston
 RECEIVED: 16/07/2001
 REPORTED: 24/07/2001
 BY: R.H. Calder

PROJ. SAMPLE NO.	EB2-A	EB2-A	EB2-B	EB2-C	EB2-C		
LAB SAMPLE NO.	SS-2	SS-3	SS-1	SS-1	SS-2		
Retained #4 Sieve %	7.9	0.0	0.0	0.0	0.0		
Passing #10 Sieve %	90.8	100.0	100.0	100.0	99.3		
Passing #40 Sieve %	90.0	91.7	97.3	99.8	97.0		
Passing #200 Sieve %	59.4	48.2	81.0	92.2	72.6		

SOIL MORTAR - 100%							
Coarse Sand Ret - #60 %	1.4	20.3	7.2	0.5	6.5		
Fine Sand Ret - #270 %	37.8	87.7	13.5	8.7	22.9		
Silt 0.053 - 0.010 mm %	25.3	31.3	40.8	52.3	37.7		
Clay < 0.010 mm %	35.5	10.7	38.5	38.5	32.9		
L.L.	37	40	55	62	44		
P.L.	20	31	32	35	24		
P.I.	17	9	23	27	20		
AASHTO Classification	A-6(8)	A-4(2)	A-7-5(21)	A-7-5(31)	A-7-6(14)		
Station	14+91.13	14+91.13	14+89.77	14+90.80	14+90.80		
Hole No.							
Offset	5.20 m Lt.	5.20 m Lt.	4.60 m Rt	CL	CL		
Depth (m)	1.32	2.59	0.00	0.00	1.07		
to	1.52	3.04	0.45	0.45	1.52		
Moisture Content (%)	26.4	23.7	41.0	46.7	31.2		

E.C. Howey, L.G., P.E.
 Soils Engineer

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PROJ. SAMPLE NO.	EB2-C	EB2-C	EB2-C	EB2-C	SB-6	SB-7	SB-8
LAB SAMPLE NO.	*ST-3	*ST-4 (1&2)	*ST-4 (3)	ST-6	SS-3	SS-3	SS-3
Retained #4 Sieve %	0.0	0.0	0.0	0.0			
Passing #10 Sieve %	100.0	99.0	100.0	100.0			
Passing #40 Sieve %	95.0	97.0	97.0	98.6			
Passing #200 Sieve %	78.0	77.0	68.0	75.5			

SOIL MORTAR - 100%							
Coarse Sand Ret - #60 %	8.1	5.7	5.7	5.1			
Fine Sand Ret - #270 %	21.0	21.8	33.3	22.6			
Silt 0.053 - 0.010 mm %	36.6	24.0	22.6	35.3			
Clay < 0.010 mm %	34.3	48.5	38.4	37.0			
L.L.	52	46	38	39	38	42	45
P.L.	29	31	24	24	23	28	28
P.I.	23	15	14	15	15	14	17
AASHTO Classification	A-7-6(18)	A-7-5(13)	A-6(8)	A-6(11)	A-6	A-7-6	A-7-6
Station	14+90.80	14+90.80	14+90.80	14+90.80	14+81.16	14+84.16	14+87.16
Hole No.							
Offset	CL	CL	CL	CL	3.13 m Rt.	3.13 m Rt.	3.13 m Rt.
Depth (m)	0.10	1.00	1.00	1.00	1.07	1.07	1.07
to	0.70	1.60	1.60	1.60	1.52	1.52	1.52
Moisture Content (%)	8.6	55.5 & 36.2	29.6	38.3			

NP=Not Plastic
 * Tested by NCDOT
 Note: SB-6, SB-7 & SB-8, SS-3 only tested for plasticity.

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 Soils Engineer