



BOULDERS	COBBLES	GRAVEL		SAND		FINES	
		COARSE	FINE	COARSE	FINE	SILT	CLAY

GRAIN SIZE DISTRIBUTION

B-3450 (Bridge No. 217)

071-02-017
10/23/2002



BORING NO.	SAMPLE NO.	ELEVATION OR DEPTH	NMC %	LL	PL	PI	CLASSIFICATION			
EB2-A	SS-8	6.0-7.5	NA	20	15	5	Grey Silty Clayey Coarse to Fine SAND (A-2-4) with Gravel			

State Project No. 8.2353001
TIP No. B-3450
Bridge No. 217 over Tributary to Sandy Creek on SR 1116 (Garrett Road)
Durham 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	Pass #270 Sieve	Coarse Sand (%)	Fine Sand (%)	Silt (%)	Clay (%)
EB1-A	1.0-2.5	SS-1	17.5	A-6(1)	5	32	20	12	74	66	39	35	20	33	29	18
EB1-A	13.5-15.0	SS-2	20.9	A-4(0)	5	22	19	3	100	99	55	47	6	46	28	20
EB1-B	1.0-2.5	SS-3	20.1	A-7-6(2)	8	41	25	16	75	56	37	35	32	21	24	23
EB1-B	3.5-5.0	SS-4	-	A-2-6(0)	19	32	18	14	69	43	27	25	43	20	21	16
B1-A	7.0-8.5	SS-5	-	A-1-6(0)	7	13	NP	NP	94	41	6	6	80	14	2	4
B1-A	8.5-10.0	SS-6	26.0	A-4(3)	12	26	18	8	100	99	66	58	2	39	34	25
EB2-A	1.0-2.5	SS-7	-	A-2-6(1)	5	33	18	15	69	58	35	34	25	25	22	28
EB2-A	6.0-7.5	SS-8	-	A-2-4(0)	WOH	20	15	5	79	70	32	30	22	40	17	21
EB2-B	13.5-15.0	SS-9	-	A-2-4(0)	10	14	NP	NP	100	80	28	25	36	39	16	9
CMP-1	3.5-5.0	SS-10	-	A-2-4(0)	4	14	NP	NP	100	91	22	18	26	57	11	6
CMP-1	6.0-7.5	SS-11	21.7	A-6(4)	5	30	21	11	100	99	62	52	3	45	30	22
CMP-1	13.5-15.0	SS-12	-	A-3(0)	3	11	NP	NP	100	71	6	6	66	29	3	2
CMP-2	1.0-2.5	SS-13	35.1	A-7-6(29)	4	53	26	27	100	99	94	92	1	7	44	48
CMP-2	13.5-15.0	SS-14	-	A-2-4(0)	3	18	NP	NP	99	89	34	29	27	45	15	13
CMP-3	8.5-10.0	SS-15	-	A-2-4(0)	3	14	NP	NP	96	64	14	12	56	31	5	8
CMP-4	3.5-5.0	SS-16	19.6	A-4(0)	3	24	21	3	100	97	48	37	7	56	19	18
CMP-4	18.5-20.0	SS-17	12.2	A-6(8)	52	37	25	12	86	80	71	71	9	8	59	24
SBD-1	0.0-0.5	G-1	34.4	A-6(5)	NA	30	21	9	97	88	67	61	14	23	31	32
SBD-2	0.0-0.5	G-2	36.9	A-6(4)	NA	29	18	11	95	85	57	54	17	27	28	28
SBK-1	0.0-0.5	G-3	14.4	A-4(2)	NA	30	20	10	82	74	48	46	17	27	33	23
SBK-2	0.0-0.5	G-4	-	A-2-7(0)	NA	43	27	16	37	27	19	18	35	16	38	11

* SS = Split-Spoon Sample (ASTM-D-1586)
** G = Grab Sample
***ST=Shelby Tube (Undisturbed) Sample
NP -- Non Plastic