

Table 28. Descriptions of sediments sampled along McKinney Creek and other tributaries to the Broad River - continued.

Block	Station number	Sample number	Material sampled	Depth of sample below surface of flood plain (feet)	Screening characteristics										Minerals in concentrate																							
					Plus 1/4 inch			Minus 1/4 - plus 1/8 inch			Minus 1/8 inch		Weight of concentrate (grams)	Sieve fraction		Monazite		Ilmenite		Rutile		Zircon		Garnet		Kyanite		Sillimanite		Magnetite	Hematite	Staurolite	Tourmaline	Amphibole, pyroxene, biotite	Epidote	Quartz	Others	
					Volume ratio	Composition (percent)	Maximum intermediate dimension (inches)	Volume ratio	Composition (percent)	Sand	Silt and clay	Mesh		Percent of concentrate	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard										
																													Percent of concentrate									
L cont.	27	52-WE-122	Riffle gravel	5 1/2	17	65 gty, 15 fels, 10 bio sch, 5 peg, 5 silt sch	1	2	70 gty, 20 fels, 5 bio sch, 5 silt sch	11	111.0	45	41	10		22						5										1		3				
												100	52	9		36															1		6					
												170	7	1		4																	2					
												Total			20	4.4	62	13.7				5	1.1								2		11					
		52-WE-123	Bank silt	4	tr	qty + fels	1/2	tr	qty + fels	13	4.5	45	13	3		9																		1				
												100	61	5		24		1																28				
												170	26	7		17				1														1				
												Total			15	.1	50	.5	1	.01	1	.01									3	.03			30			
	28	52-WE-131	Riffle gravel	3	11	55 gty, 30 silt sch, 15 fels	1	3	60 gty, 25 fels, 15 silt sch	15	42.4	45	33	10		15						6												2				
												100	61	15		21						3											2	20				
												170	6	2		4																						
												Total			27	2.3	40	3.4				9	.8										2	22				
												45	18	2		11						4												1				
												100	75	10		30						5												26				
												170	7	1		5																		1				
												Total			13	.3	46	1.2				9	.2											28				
	30	52-WE-119	Riffle gravel	6	10	60 gty, 20 fels, 10 silt sch, 5 bio sch, 5 peg	1/2	5	65 gty, 25 fels, 10 silt sch	17	19.3	45	17	1		9						5												2				
												100	68	6		42						3												16				
												170	15	3		12																						
												Total			10	.4	63	2.4				8	.3										1	tr	18			
	31	52-WE-115	Riffle gravel	5 1/2	14	60 gty, 20 fels, 10 silt sch, 5 bio sch, 5 peg	1	5	60 gty, 30 fels, 10 silt sch	15	80.6	45	26	2		17						5												2				
												100	62	8		44		1		1		2												6				
												170	12	3		9																						
												Total			13	2.1	70	11.3	1	.2	1	.2	7	1.1										8				
	32	52-WE-116	Riffle gravel	5 1/2	15	60 gty, 25 fels, 10 bio sch, 5 peg	1	2	60 gty, 30 fels, 10 bio sch	14	112.4	45	29	2		21						3												3				
												100	62	3		35						2												22				
												170	9	1		6																		.2				
												Total			6	1.4	62	14.8				5	1.2												27			
	33	52-WE-117	Riffle gravel	5	10	65 gty, 30 fels, 5 silt sch	3/4	5	60 gty, 35 fels, 5 silt sch	17	72.5	45	20	1		16						2												1				
												100	72	8		55						2												6				
												170	8	2		5																		1				
												Total			11	1.6	76	11.0				4	.6											1	8			
		52-WE-118	Bank silt	4	—	—	—	—	—	9	7.9	45	—	—		—						—																
												100	27	—		10						—												15				
												170	73	6		49					3													13				
												Total			6	.1	59	1.0			3	.05													28			
M	34	52-WE-113	Riffle sand	6	2	70 gty, 20 fels, 10 bio sch	3/8	3	60 gty, 30 fels, 10 bio sch	25	14.7	45	2	—		1						1																
												100	62	2		32					1													22				
												170	36	6		26					1													2				
												Total			8	.2	59	1.7			2	.06	2	.06											24			
		52-WE-114	Bank silt	3	—	—	—	—	—	1	3.6	45	3	—		1						2																
												100	22	—		5						2													15			
												170	75	4		34					2														35			
												Total			4	.03	40	.3			2	.02	4	.03											50			

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