

Table 33. Descriptions of sediments sampled along Floyd 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 Volume ratio	Silt and clay Abundance	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									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
R	62	52-WE-8	Riffle gravel	5	15	75 gty, 15 silt sch, 5 hor sch, 5 fela	1	3	70 gty, 20 silt sch, 5 hor sch, 5 fela	13		278.0	45	39	2		18		—		—		3		—		2		—	10	—	—	—	—	2									
													100	53	9		18		3		—		—		—		3		—	—	—	—	—	—	20									
													170	8	1		3		—		—		—		—		—		—	—	—	—	—	—	4									
													Total		12	6.7	39	21.6	3	1.7	—	—	3	1.7	—	—	5	2.8	2	10	—	—	—	—	—	26								
	63	52-WE-7	Riffle gravel	5	10	85 gty, 5 silt sch, 5 fela, 5 hor gm	1	5	75 gty, 15 fela, 5 silt sch, 5 hor gm	17		304.0	45	23	2		14		—		—		2		—		—		1	4	—	—	—	—	—									
													100	62	8		32		3		—		—		—		2		—	—	—	—	—	—	15									
													170	15	2		6		1		—		—		—		1		—	—	—	—	—	—	4									
													Total		12	7.3	52	31.6	4	2.4	3	1.8	2	1.2	—	—	3	1.8	1	4	—	—	—	—	—	19								
	64	52-WE-5	Riffle gravel	5	27	90 gty, 5 silt sch, 5 fela & musc sch	2 1/2	2	75 gty, 15 silt, 5 fela, 5 musc & hor sch	5		408.7	45	50	—		35		3		—		5		—		—		3	—	—	—	—	—	3									
													100	42	2		11		1		—		1		—		2		—	—	—	—	—	—	25									
													170	8	1		2.5		—		—		—		—		0.5		—	—	—	—	—	—	4									
													Total		3	2.4	48.5	39.6	4	3.3	1	0.8	6	4.9	—	—	2.5	2.0	3	—	—	—	—	—	—	32								
		52-WE-6	Bank clay	4	27	96 gty, 2 silt sch, 2 hor sch	1/2	2	90 gty, 5 fela, 5 hor & silt sch	7		57.7	45	16	1		9		—		—		6		—		—		—	—	—	—	—	—	—									
													100	45	3		15		—		—		7		—		10		—	—	—	—	—	—	10									
													170	39	7		17		—		—		1		—		2		—	—	—	—	—	—	12									
													Total		11	1.5	41	5.6	—	—	—	—	14	1.9	—	—	12	1.6	—	—	—	—	—	—	22									
	65	52-WE-3	Riffle gravel	5 1/2	12	75 gty, 10 hor gm, 10 fela & silt, 5 hgm	1 1/4	2	70 gty, 10 fela, 10 silt sch, 10 hor	12		396.5	45	40	—		28		2		2		4		—		2		—	—	—	—	—	—	12									
													100	55	4		31		4		—		2		—		2		—	—	—	—	—	—	12									
													170	5	1		2		—		0.5		—		—		0.5		—	—	—	—	—	—	1									
													Total		5	4.0	61	48.3	6	4.7	2.5	2.0	6	4.7	—	—	3.5	2.8	1	—	—	—	—	—	—	15								
		52-WE-4	Bank clay	5	5	50 hor sch, 30 hor gm, 15 gty, 5 silt sch	1 1/4	1	60 hor, 20 gty, 15 fela, 5 silt sch	4		36.5	45	18	1		8.5		—		—		7.5		—		—		1	—	—	—	—	—	—									
													100	44	3		25		1		—		2		—		4		1	—	—	—	—	—	8									
													170	38	6		20		1		2.5		1		—		2.5		1	—	—	—	—	—	4									
													Total		10	0.7	53.5	4.0	2	0.1	2.5	0.2	10.5	0.8	—	—	6.5	0.5	3	—	—	—	—	—	12									
	66	52-WE-2	Riffle gravel	5	20	80 gty, 10 hor gm, 10 fela, hgm & musc sch	2	2	70 gty, 20 gm, 10 fela, hgm & musc sch	7		173.0	45	44	7		26		—		—		2		—		—		1	8	—	—	—	—	—									
													100	45	1		8		—		—		1		—		2		1	3	—	—	—	—	29									
													170	11	1		3.5		—		1		—		—		0.5		—	—	—	—	—	—	5									
													Total		9	3.1	37.5	12.9	—	—	1	0.3	3	1.0	—	—	2.5	0.9	2	11	—	—	—	—	—	34								
	67	51-PK-253	Riffle gravel	4	No data	45 gm, peg fela, 25 gty, 25 hor sch & hor gm, 5 silt sch	5	No data	See #4	8		113.5	Total	100	6	1.4	62	14.8	1	0.2	—	—	11	2.5	—	—	2	0.5	1	—	—	—	—	—	—	17								
	68	51-PK-252	Riffle gravel	4	No data	60 gty, 20 peg fela & musc, 15 hor gm, 5 silt sch	3	No data	See #4	13		57.6	Total	100	9	1.0	67	7.7	1	0.1	2	0.2	9	1.0	—	—	2	0.2	1	—	—	—	—	—	—	9								
	69	51-PK-251	Riffle gravel	3 1/2	No data	55 hor gm, 45 gty	No data	No data	See #4	11		52.1	Total	100	7	0.7	62	6.4	—	—	1	0.1	11	1.1	—	—	2	0.2	2	—	—	—	—	—	—	15								
S	70	52-WE-19	Riffle gravel	7	16	70 gty, 10 hor sch, 10 fela, 10 silt sch	1	2	65 gty, 20 silt sch, 10 fela, 5 hor sch	18		209.6	45	46	7		31		2		—		4		—		—		1	—	—	—	—	—	—	1								
													100	47																														