

Table 32 Descriptions of sediments sampled along Hinton Creek and other tributaries to the First 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		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	Weight of concentrate (grams)																						
																													Mesh	Percent of concentrate	Percent of concentrate	Pounds per cubic yard	Percent of concentrate	Pounds per cubic yard
M	70	52-CS-774	Riffle gravel	10	18	50 grs - bio grs, 30 peg, 20 fty, to sill	6	3	40 bio grs, 30 peg, 30 fty	10		81.3	32	48	13		12		—		—	23		—		—		—	—	—	—	—	th	
cont												45	31	17			7		th		1	3		—	th	—	—	—	—	—	—	3		
												100	15	4			8		th		1	—		—	th	—	—	—	—	—	—	2		
												170	2	1			1		th		th	th		—	th	—	—	—	—	—	—	th		
												Total			3.5	5.7	28	4.5	th	—	2	0.3	26	4.2	—	th	—	4	—	—	—	5		
	71	52-CS-770	Riffle gravel	4	18	50 fty, 25 peg, 25 grs - bio grs, to sill	5	4	40 bio grs, 30 fty, 25 peg, 5 sils, to sill	12		44.3	45	62	26		22		1		—	9		—	th	—	—	—	—	—	—	4		
												100	30	11			11		—		—	1		—	1	—	—	—	—	—	—	6		
												170	4	1			2		th		1	th		—	th	—	—	—	—	—	—	th		
												Total			3.8	3.4	35	3.1	1	0.09	1	0.09	10	0.9	—	1	0.09	4	—	—	—	10		
	72	52-CS-765	Riffle gravel	5	19	40 grs - bio grs, 30 fty, 30 peg, to sill	4	5	40 fty, 40 bio grs, 20 peg, to sill	10		54.1	32	48	1		13		—		—	31		—	—	—	—	—	—	—	—	1		
												45	34	8			11		—		—	9		—	1	—	—	—	—	—	—	5		
												100	15	5			6		th		th	2		—	1	—	—	—	th	—	—	1		
												170	th	th			th		—		th	th		—	th	—	—	—	—	—	th			
												Total			14	1.5	30	3.2	th	—	th	—	4.2	4.5	—	2	0.2	3	2	—	th	—	7	
N	73	52-CS-762	Riffle gravel	3	16	50 bio - hqrs, 40 peg, 10 fty	4	4	40 bio - hqrs, 40 peg, 20 fty	10		178.0	32	46	2		20		—		—	23		—	—	—	—	—	—	—	—	—		
												45	30	8			9		—		th	7		—	th	—	—	—	—	—	—	6		
												100	20	5			6		1		th	2		—	th	—	—	—	—	—	—	5		
												170	2	1			1		th		th	th		—	th	—	—	—	—	—	—	th		
												Total			16	5.7	36	12.8	1	0.4	th	—	32	11.4	—	th	—	2	2	—	—	—	11	
	74	52-CS-760	Riffle gravel	7	15	40 bio - hqrs, 35 peg, 25 fty	2 1/2	5	40 bio - hqrs, 40 fty, 20 peg	12		141.4	45	70	15		28		th		—	20		—	1	—	—	—	—	—	—	6		
												100	21	7			10		th		1	2		—	th	—	—	—	th	—	—	1		
												170	7	3			3		th		1	th		—	th	—	—	—	—	—	th			
												Total			25	7.1	41	11.6	th	—	2	0.6	22	6.2	—	1	0.3	2	—	th	—	7		
		52-CS-761	Bank silt	4	—	—	—	—	—	5	29	6.1	45	3	1		1		th		th	1		—	th	—	—	—	—	—	th			
												100	51	4			26		3		th	8		—	3	—	—	—	—	—	th			
												170	46	7			30		2		4	1		—	1	—	—	—	—	—	1			
												Total			12	0.2	57	0.7	5	0.06	4	0.05	10	0.1	—	4	0.05	th	—	—	—	8		
	15	52-CS-758	Riffle gravel	7	15	50 hqrs, 30 peg, 20 fty	2	9	40 fty, 40 hqrs, 20 peg	13		25.9	45	29	2		16		—		—	10		—	th	—	—	—	—	—	—	1		
												100	58	9			34		1		1	5		—	1	—	—	th	—	—	7			
												170	12	3			8		th		th	1		—	th	—	—	—	—	—	—			
												Total			14	0.7	58	3.0	1	0.05	1	0.05	16	0.8	—	1	0.05	1	—	th	—	8		
		52-CS-759	Bank silt	3 1/2	—	—	—	—	—	3	31	11.6	45	21	1		9		th		—	11		—	th	—	—	th	th	—	—	th		
												100	57	6			35		2		th	6		—	3	—	—	—	—	—	5			
												170	21	6			13		1		th	1		—	th	—	—	th	—	—	th			
												Total			13	0.3	57	1.4	3	0.07	th	—	18	0.4	—	3	0.07	1	—	th	—	5		
O	54	52-CS-794	Riffle gravel	8	5	50 bio grs, 30 peg, 20 fty	1	6	40 fty, 40 bio grs, 20 peg	17		29.8	45	23	1		7		—		—	8		—	1	—	—	—	1	2	3			
												100	63	1			29		1		—	8		—	3	—	—	—	5	5	11			
												170	13	1			10		—		th	1		—	1	—	—	th	th	th	th			
												Total			3	0.2	46	2.7	1	0.06	th	—	17	1.0	—	5	0.3	1	—	—	6	7		
	76	52-CS-792	Riffle sand	7	5	50 bio grs, 25 peg, 25 fty	1	5	50 bio grs, 30 fty, 20 peg	24		50.5	45	40	th		2		th		—	8		—	th	—	th	th	th	th	th	th		
												100	31	1			18		th		1	3		—	1	—	—	1	2	2	2			
												170	56	2			44		th		1	2		—	2	—	—	th	2	1	2			
												-170	2	—			1		—		1	—		—	—	—	—	—	—	—	—			
												Total			3	0.3	65	6.6	th	—	3	0.3	13	1.3	—	3	0.3	1	th	—	1	4		
		52-CS-793	Bank silt	4	—	—	—	—	—	9	3.3	45	3	th			1		—		th	2		—	th	—	th	th	th	th	th			
												100	58	1			42		1		1	6		—	2	—	—	—	—	—	th			
												170	39	3			32		1		1	1		—	1	—	—	1	2	1				
												Total			4	0.03	25	0.5	2	0.01	2	0.01	9	0.06	—	3	0.02	th	—	—	th	—		
	77	52-CS-790	Riffle sand	8	3	50 bio grs, 30 peg, 20 fty	1	4	40 fty, 40 bio grs, 20 peg	21		27.8	45	18	2		5		—		—	4		—	1	—	—	th	th	4	th	2		
												100	70	—			19		—		—	5		—	3	—	—	—	4	2	35			
												170	11	th			9		th		—	th		—	1	—	th	th	th	th	1			
												Total			2	0.1	33	1.8	th	—	—	—	9	0.5	—	5	0.3	1	—	th	2	38		
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