Heavy Content

Table 7. Descriptions of sediments sampled along Rabon Creek, Greenville County and Laurens County, S. C

Block	Station number	Sample number	Material sampled	Depth of sample below surface of flood plain (feet)	Screening characteristics: Plus 1/4 inch: Volume ratio	Plus 1/4 inch: Composition (percent)	Plus 1/4 inch: Maximum intermediate dimension (inches)	Minus 1/4 - plus 1/8 inch: Volume ratio	Minus 1/4 - plus 1/8 inch: Composition (percent)	Minus 1/8 inch: Sand: Volume ratio	Minus 1/8 inch: Silt and clay: Abundance	Weight of concentrate (grams)	Sieve fraction: Mesh	Percent of concentrate	Monazite: Percent of concentrate	Monazite: Pounds per cubic yard	Ilmenite: Percent of concentrate	Ilmenite: Pounds per cubic yard	Rutile: Percent of concentrate	Rutile: Pounds per cubic yard	Zircon: Percent of concentrate	Zircon: Pounds per cubic yard	Garnet: Percent of concentrate	Garnet: Pounds per cubic yard	Kyanite: Percent of concentrate	Kyanite: Pounds per cubic yard	Sillimanite: Percent of concentrate	Sillimanite: Pounds per cubic yard	Magnetite	Hematite	Staurolite	Tourmaline	Amphibole, pyroxene, biotite	Epidote	Quartz	Others
															Percent of concentrate																					
A	1	52-DC-618	Riffle sand		5	10 qtz, 10 fels, 10 qu, 10 bio sch	3/4	2	10 qtz, 20 fels, 10 qu	24		59.1	45	20	1		11		1		tr		tr							1						
													100	65	3		46		2		1															
													170	14	1		10		1		2															
													Total		5	.6	15	8.6	4	.5		4	tr											tr		
	2	52-DC-617	Riffle gravel		16	40 qu, 30 qtz, 20 fels, 10 bio sch	8	1	50 qtz, 20 fels, 20 qu, 10 bio sch	13		83.3	45	40	2		35		tr		1		tr													
													100	51	5		31		1																	
													170	6	1		4		tr		1															
													Total		8	1.3	16	12.6	1	.2	2		tr											1		
	3	52-DC-620	Riffle gravel		20	60 bio qu, 20 qtz, 20 fels	2	2	50 qtz, 20 fels, 20 bio sch, 10 qu	10		133.2	45	16	tr		15																			
													100	28	1		22													1				1		
													170	6	tr		5		tr		1															
													Total		1	.3	42	11.2	tr	tr	1	.3												1		
	4	52-DC-619	Riffle gravel		14	10 qtz, 10 qu, 10 fels, 10 bio sch	2	3	10 qtz, 20 fels, 10 bio sch	16		38.1	45	21	3		22		1		tr		1							1						
													100	59	17		33		2		1															
													170	11	4		6		tr		1															
													Total		24	1.8	61	4.1	3	.2	2	.2	2							1				1		
	5	52-DC-621	Riffle sand		11	50 qtz, 20 qu, 20 fels, 10 bio sch	1	3	50 qtz, 20 fels, 10 qu, 10 bio sch	20		144.2	45	9	tr		4		tr		tr		tr							1						
													100	63	3		47		1		1									1						
													170	20	2		16		1		1		tr											1		
													Total		5	1.4	74	21.3	2	.6	2	.6								1						
	6	52-DC-622	Riffle gravel		19	40 qtz, 30 qu, 20 fels, 10 bio sch	3	1	50 qtz, 20 fels, 20 qu, 10 bio sch	11		38.2	45	38	3		20		—		tr													1		
													100	21	2		15				tr															
													170	6	1		4		tr		1		1													
													Total		6	.5	39	10.0	tr		1	.21	1													
B	9	52-DC-623	Riffle gravel		16	60 qtz, 20 qu, 20 fels	3	1	50 qtz, 20 fels, 20 bio sch, 10 qu	14		42.1	45	45	2		31		—																		
													100	38	3		26		tr															1		
													170	5	1		4		—		tr															
													Total		6	.5	61	5.1	tr	—	tr		4						1							
	10	52-DC-626	Riffle gravel		14	70 qtz, 20 fels, 10 qu	2	4	60 qtz, 20 fels, 20 bio sch	15		64.8	45	14	2		15		1				1													
													100	54	10		40		4		1															
													170	12	4		8		tr		—		tr													
													Total		16	2.1	63	8.1	5	.6	1	.1	1						10							
	11	52-DC-624	Riffle sand		10	50 qtz, 30 qu, 10 fels, 10 bio sch	2	2	50 qtz, 20 fels, 20 qu, 10 bio sch	20		11.0	45	24	1		18		1		tr									1						
													100	55	6		41		2		1		2													
													170	12	3		8		tr		1		tr													
													Total		10	.3	61	2.3	3	.1	2	.21	3						1	1						
		52-DC-625	Back silt	2	—	—	—	—	—	8	20	.23	45	tr	—		—		—		—		2													
													100	30	tr		12		—		—															
													170	30	5		12		2		2		1													
													Total		5	.02	24	.1	2	.01	2	.01							1							
C	1	52-DC-616	Riffle sand		—	—	—	—	—	34		24	45	4	—		4		—		—															
													100	12	—		63		—		—															
													170	24	—		23		—		3															
													Total		—		81	.4	—	—		.1														
	8	52-DC-617	Riffle sand		8	30 qtz, 30 qu, 10 fels, 10 bio sch	2	5	50 qtz, 20 fels, 10 qu, 10 bio sch	21		121.3	45	13	tr		13		—		tr		tr													
													100	60	1		52		—		tr															
													170	14	1		11		—																	
													Total		2	.5	16	11.1			2		1	1.												
		52-DC-615	Back silt	1	—	—	—	—	—	10	20	2.1	45	tr	—		—		—																	
													100	51	—		42		—		1															
													170	43	—		31		—																	
													Total		—	—	19	.4	—		2								1.							
D	12	52-DC-621	Riffle gravel		10	60 qtz, 20 fels, 10 qu, 10 bio sch	2	4	50 qtz, 20 fels, 20 bio sch, 10 qu	13		42.5	45	38	2		31		—		1															
													100	51	6		22		—		1															
													170	6	2		4		—		1.		1.											1.		
													Total		10	.8	68	5.5																		
	13	52-DC-628	Riffle sand		4	40 qtz, 30 bio sch, 20 qu, 10 fels	1	8	40 bio sch, 30 qtz, 20 fels, 10 qu	23		1.5	45	1	tr		5		tr															1		
													100	66	tr		22		1																	
													170	21	1		16				1															
													Total		1	.003	43	.1	1	.003	1	.003							1.							
	14	52-DC-629	Riffle gravel		15	10 qtz, 20 qu, 10 fels	3	3	50 qtz, 30 qu, 10 fels, 10 bio sch	16		42.3	45	21	11		15		tr		tr		1													
													100	41	2		22		tr																	
													170	6			2		tr		tr		—													
													Total		16	.0	43	2.6	tr	—	tr	—	tr						.8	1.			1			
	15	52-DC-630	Riffle sand		10	60 qtz, 20 fels, 10 qu, 10 bio sch	1	3	60 qtz, 20 fels, 10 qu, 10 bio sch	20		36.5	45	28	1		23		—		—		2				tr					tr		1		tr
													100	49	1		35		tr		tr		tr											6		
													170	5	2		3		tr		tr		—											1.		
													Total		10	.1	61	4.4	tr	—	tr	—	2	.1					18		tr		tr		1		tr
	16	52-DC-631	Riffle gravel		16	80 qtz, 10 qu, 10 fels	3	3	10 qtz, 20 fels, 10 qu	12		44.3	45	42	11		27		—		tr		tr								tr					1
													100	33	5		14		—		—		—												1	1
													170	6	3		3		—		tr		—											tr	tr	
													Total		19	1.7	44	3.9	—	—	tr	—	tr	—				—	14	tr				16		
E	11	52-DC-632	Riffle gravel		19	50 basic rock, 20 qtz, 20 qu, 10 fels	5	1	50 qtz, 20 fels, 10 qu, 10 bio sch, 10 basic rock	12		6.8	45	22	2		18		—		—		1						—	—				tr	1	tr	tr
													100	60	8		38		1		tr		tr				tr		—	—			2	tr	11	tr	
													170	9	3		6		—		tr		tr				—		—	—				tr	tr	
													Total		13	.2	62	.8	1	.01	tr	—	1	.01		—	tr	—	9	—		—	2	tr	12	tr	tr