Table 6. ~~Descriptions~~ Mineral content of sediments sampled along Big Beaverdam Creek and Little Beaverdam Creek, Anderson County and Oconee 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	Sieve fraction: 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
															Minerals in concentrate														Percent of concentrate							
A	1	52-DC-68	Riffle sand	-	4	40 qtz, 35 fels, 25 gn & peg	3/4	5	45 qtz, 40 fels, 10 gn, 5 sill sch & mica	22		94.1	45	41	—		5		—		—		—		—		—		41	—	—	—	—	—	—	
													100	48	tr		2		—		2		—		—		—		23	—	—	—	—	4	14	
													170	11	—		—		—		6		—		—		—		1	—	—	—	—	1	1	
													Total		tr	—	7	1.3	—	—	8	1.5	—	—	—	—	—	—	65	—	—	—	—	5	15	
B	2	52-DC-185	Riffle gravel		16	50 qtz, 30 bio sch, 10 fels, 10 gn	2	5	60 qtz, 20 fels, 20 garnet & magn	10		623.2	45	84	4		58		—		—		1		—		—		—	—	—	—	—	—	15	
													100	11	1		1		—		—		tr		—		tr		—	—	—	—	—	—	3	
													170	1	tr		1		—		tr		—		—		tr		—	—	—	—	—	tr	tr	
													Total		5	6.2	66	82.1	—	—	tr	—	1	8.7	—	—	tr	—	4			—	—	tr	18	
	3	52-DC-186	Riffle gravel		19	40 qtz, 30 gn, 20 dinite, 10 fels, sill sch & mica	6	3	60 qtz, 20 sill sch, 10 gn, 10 fels & mica	9		202.6	45	76	5		33		—		1		1		—		—		28	—	—	—	—	—	5	
													100	22	6		14		—		—		—		—		—		—	—	—	—	—	—	2	
													170	2	1		1		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		12	4.8	48	19.4	—	—	1	.4	4	1.6	—	—	—	—	28	—	—	—	—	—	7	
	4	52-DC-182	Riffle gravel		14	50 qtz, 20 gn, 20 sill sch, 10 fels & bio sch	1 1/2	4	60 qtz, 20 sill sch, 10 bio sch, 10 fels	17		108.3	45	65	1		53		—		—		5		—		—		—	—	—	—	—	—	6	
													100	33	3		27		—		—		—		—		1		—	—	—	—	—	—	2	
													170	2	—		2		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		4	.9	82	17.7	—	—	—	—	5	1.1	—	—	1	.2	—	—	—	—	—	—	8	
		52-DC-183	Bank gravel	5	13	60 qtz, 20 bio sch, 10 gn, 10 fels	4	2	70 qtz, 20 fels, 10 gn	10	8	104.9	45	73	3		58		—		1		5		—		1		—	—	—	—	—	—	5	
													100	25	2		19		—		—		—		—		—		—	—	—	—	1	—	3	
													170	2	—		2		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		5	1.2	79	19.8	—	—	1	.2	5	1.2	—	—	1	.2	—	—	—	—	1	—	8	
	5	52-DC-181	Riffle gravel		20	40 gn, 30 qtz, 20 bio sch, 10 sill sch & fels	2 1/2	1	40 qtz, 30 gn, 20 fels, 10 sill sch	10		238.3	45	68	3		47		—		—		5		—		1		2	—	—	—	—	—	10	
													100	30	1		22		—		—		—		—		—		—	—	—	—	—	—	1	
													170	2	—		2		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		4	1.9	71	33.8	—	—	—	—	5	2.4	—	—	1	.5	2	—	—	—	—	—	11	
	6	52-DC-194	Riffle gravel		11	40 qtz, 30 bio sch, 10 sill sch, 10 gn, 10 fels	1 3/4	6	50 qtz, 20 sill sch, 10 gn, 10 fels, 10 bio sch	16		349.1	45	50	4		41		—		—		3		—		—		1	—	—	—	—	—	1	
													100	44	7		33		—		2		1		—		—		—	—	—	—	—	—	1	
													170	6	1		5		—		—		—		—		—		—	—	—	—	—	—	—	
													Total		12	8.4	79	55.0	—	—	2	1.4	4	2.8	—	—	—	—	1						2	
C	7	No sample																																		
	8	No sample																																		
	9	52-DC-195	Terrace gravel		11	90 qtz, 10 fels	4	2	90 qtz, 10 fels	8	10	85.7	45	48	2		42		—		—		2		—		—		—					—	2	
													100	46	5		36		2		—		—		—		—		—					—	3	
													170	6	1		4		—		1		—		—		—		—					—	—	
													Total		8	.6	82	16.6	2	.4	1	.2	2	.4	—	—	—	—	—					tr	5	
	12	52-DC-196	Riffle gravel		11	40 gn, 30 qtz, 20 bio sch, 10 fels	1	6	60 qtz, 20 bio sch, 20 fels & mica	16		141.4	45	75	tr		26		—		1		5		—		—		31		—		—	1	8	
													100	25	tr		8		—		1		—		—		—		12		—		—	1	1	
													170	tr	—		—		—		—		—		—		—		—					tr	—	
													Total		tr	—	34	9.6	—	—	2	.6	5	1.4	—	—	—	—	45					5	1	
D	10	52-DC-184	Riffle sand		9	60 qtz, 20 gn, 10 bio sch, 10 fels	2	5	70 qtz, 20 fels, 10 gn & mica	20		60.9	45	20	3		11		1		tr		3		—		—		—				tr	—	2	Sphene tr
													100	65	14		47		—		1		1		—		tr		—	tr		—	—	tr	2	—
													170	13	3		9		tr		1		tr		—		—		—	tr		—	—	—	tr	—
													Total		20	2.4	67	8.1	1	.1	2	.2	4	.5	—	—	tr	—	2	tr		—	tr	tr	4	tr
	11	52-DC-187	Riffle gravel		20	40 gn gn, 20 qtz, 20 mica sch, 10 gn, 10 fels	5	2	60 qtz, 20 gn, 10 fels, 10 garnet & magn	11		165.9	45	72	13		39		—		1		4		—		—		3	—		—	—		12	
													100	25	4		15		—		1		—		—		1		—	—		—	—	—	4	
													170	3	1		2		—		—		—		—		—		—	—		—	—	—	—	
													Total		18	6.0	56	18.5	—	—	2	.7	4	1.3	—	—	1	.3	3	—		—	—	—	19	
	12	See Block C																																		
E	19	52-DC-197	Riffle gravel		12	70 qtz, 20 gn, 10 fels	1 1/2	4	80 qtz, 15 fels, 5 gn	18		181.8	45	42	3		12		—		—		1		—		—		20	2					4	
													100	56	3		24		—		—		—		—		—		28	—					1	
													170	2	—		2		—		—		—		—		—		—	—					—	
													Total		6	2.2	38	13.8	—	—	—	—	1	4	—	—	—	—	48	2					5	
	20	52-DC-198	Bank gravel	5	5	50 bio sch, 30 qtz, 10 gn, 10 fels	6	1	60 qtz, 20 gn, 10 fels, 10 bio sch	5	20	8.8	45	31	—		5		—		—		—		—		—		11					—	1	
													100	59	1		20		—		tr		—		—		—		21					11	6	
													170	10	1		6		—		1		—		—		—		2					tr		
													Total		2	.04	31	.6	—	—	1	.02						—	40					1	1	
	21	52-DC-110	Terrace gravel		9	85 qtz, 15 fels	2	3	60 qtz, 40 fels	10	2	97.2	45	16	1		14		—		1		tr		—		—		—					tr	tr	
													100	64	2		45		2		2		—		—		1		—				2	1	6	
													170	20	2		15		tr		1		—		—		—							1		
													Total		5	1.1	74	17.0	2	.5	4	.4	tr				1	.2	tr				2		1	
	22	52-DC-72	Riffle gravel		18	80 qtz, 15 fels, 5 gn & bio sch	6	4	15 qtz, 20 fels, 5 sill sch	9		81.0	45	52	1		4		—		—		—						41							
													100	41	—		10		—		—		—						23						8	
													170	7	—		3		—		—		—						2						2	
													Total		1	.2	11	2.8	—	—	—	—							12					tr	10	
		52-DC-73	Bank sand	3 1/2	tr	tr gn & qtz	1/2	tr	tr gn & qtz	19	11	5.1	45	tr	—		—		—		—		—						—					2	3	
													100	14	tr		9		—		—		—						—					2	5	
													170	86	tr		76		—		2		1						—					4	8	
													Total		tr	—	85	.9	—	—	2	.02	1	.01	—	—	—	—	—	—	—	—	—	4	8	
	23	52-DC-70	Riffle gravel		15	60 qtz, 20 fels, 10 gn, 5 mica sch, 5 sill sch	4	3	70 qtz, 30 fels, 5 mica, 5 sill sch	11		95.7	45	26	—		16		—		—		1		—		—		10							
													100	60	—		39		—		—		—		—		—		1	—	—	—			9	
													170	14	—		13		—		3		—		—		—		—	—	—	—			1	
													Total		—	—	68	13.0	—	—	3	.6	1	1.3	—	—	—	—	11					tr	10	
		52-DC-71	Bank gravel	6	20	65 qtz, 30 fels, 5 gn	5	5	10 qtz, 29 fels, 1 mica	5	2	34.8	45	34	1		33		—		tr		tr		—		—		—					—	tr	
													100	41	tr		31		—		1		—		—		—		—					2	1	
													170	25	tr		11		—		5		—		—		—		—					1	2	
													Total		1	.08	81	6.7	—	—	6	.5	tr	—	—		—		—					3	9	