wgk (cont)

Table 4 Mineral content

Descriptions of sediments sampled along Big Generostee Creek – continued.

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)	Minerals in concentrate: 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
																													Percent of concentrate							
H cont	33	52-DC-26	Riffle gravel		9	70 qtz, 10 gr, 10 fels, 10 bio sch	1	5	75 qtz, 15 fels, 10 bio sch & mica	15		210.0	45	30	1		13		—		—		—		—		—		15	—	—	—	—	—	1	
													100	60	2		29		—		—		—		—		—		12	—	—	—	2	—	15	
													170	10	—		6		—		—		—		—		—		—	—	—	—	—	—	4	
													Total		3	1.3	48	20.1	—	—	—	—	—	—	—	—	—	—	21	—	—	—	2	—	20	
	34	52-DC-24	Riffle sand		4	65 qtz, 25 bio sch, 5 gr, 5 fels	3/4	5	80 qtz, 10 fels, 5 bio sch, 5 mica	20		86.0	45	27	tr		24		—		—		1		—		—		1					1	—	[illegible] tr
													100	66	—		41		—		1		2		—		—		1					1	14	—
													170	7	—		5		—		tr		tr		—		—		—					tr	2	—
													Total		tr	—	76	13.0	—	—	1	2	3	5	—	—	—	—	2	—	—	—	—	2	16	tr
I	36	52-DC-30	Riffle gravel		15	70 qtz, 20 fels, 5 gr & peg, 5 bio sch	4	3	75 qtz, 20 fels, 5 bio sch & mica	9		297.0	45	48	4		35		—		—		1		—		—		5	—	—	—	—	—	3	
													100	47	2		20		—		—		—		—		—		1	—	—	—	—	—	24	
													170	5	1		3		—		—		—		—		—		—	—	—	—	—	—	1	
													Total		1	4.1	58	34.4	—	—	—	—	1	.6	—	—	—	—	6	—	—	—	—	—	28	
	37	52-DC-23	Riffle gravel		20	75 qtz, 15 bio sch, 5 fels, 5 gr & peg	2	2	60 qtz, 20 bio sch, 10 fels, 5 mica, 5 garnet	10		453.9	45	50	—		28		—		—		—		—		—		11	—	—	—	—	—	11	
													100	48	—		24		—		—		—		—		—		—	—	—	—	—	—	24	
													170	2	—		1		—		—		—		—		—		—	—	—	—	—	—	1	
													Total		—	—	53	48.0	—	—	—	—	—	—	—	—	—	—	11	—	—	—	—	—	56	

Mineralogical analyses by: M. N. Gerhard, R. P. Marquiss, C. J. Spengler, Jerome Stone