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FAX

State of Alaska

Department of Commerce &
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Division of Trade & Development
751 Old Richardson Highway, #205
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Date 03/20/98

Number of pages, including cover 3

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Urgent ___ For your review ___ Reply ASAP ___ Please comment ___

TOM

FANTASTIC NEWS! NOT SO URGENT NOW, BUT
THERE WILL BE THE POLARIS SOON.

I ENCLOSE A COPY OF WHAT I WORKED UP
FOR THE "NATURAL" CONDITION OF THE ALSEK &
TATSENSHINI. DIDN'T DO MUCH GOOD DID IT!!

I'DE LIKE TO DO IT FOR THE TAKU ALSO, BUT
THE RUSH IS OFF.

ALSEK

	Runoff m ³ /sec	Total m ³ x 10 ⁶	Average Solid mg/L or g/m ³	Total Solid kgm x 10 ⁶	Average Metal mg/L or g/m ³						Total Metal kg x 10 ³								
					Cu	Zn	Pb	Ni	Co	Cr	Cu	Zn	Pb	Ni	Co	Cr			
JAN	100	267.8	100	26.8															
FEB	100	267.8	100	26.8															
MAR	100	267.8	100	26.8															
APR	200	518.4	302	156.56	.005	.004			.001	.003	2.6	2.1			0.5	1.5			
MAY	300	803.5	225	180.8	.003	.004					2.4	3.2							
JUN	1,200	3,110.4	1,500	4,665.6	.01	.01			.010	.010	31.1	31.1			31.1	31.1			
JUL	2,400	6,428.2	1,400	8,999.4	.04	.07	.007	.07	.016	.022	257.1	449.9	44.9	449.9	102.8	141.4			
AUG	2,200	5,892.5	1,100	6,480.7	.02	.05	.006	.03	.029	.044	117.8	294.6	35.3	176.7	170.9	82.5			
SEPT	1,200	3,110.4	325	1,010.9	.006	.021	.003	.006	.006	.005	18.7	65.3	9.3	18.6	18.7	18.6			
OCT	300	803.5	220	176.8	.003	.008	.002	.003	.001	.005	2.4	6.4	1.6	2.4	0.8	4			
NOV	200	518.4	110	57.02															
DEC	100	267.8	100	26.8															
		22,256.5		21,835.9							432.1	852.6	91.1	647.6	324.0	279.1			

The Alsek River carries 21.84 billion kilograms (24.7 million tons) of sediment to the Gulf of Alaska each year. Contained within this are 852,600 kg (940 tons) of zinc, 647,600 kg (714 tons) of nickel, 432,100 kg (476.4 tons) of copper, 324,600 kg (358 tons) of cobalt, 279,100 kg (307 tons) of chromium, and 91,100 kg (100 tons) of lead.

TATSUNSHINI

	Runoff m ³ /sec	Total m ³ x 10 ⁶	Average Solid kg/L or g/m ³	Total Solid kg x 10 ⁶	Average Metal mg/L or g/m ³						Total Metal kg x 10 ³										
					Cu	Pb	Zn	Ni	Co	Cr	Cu	Pb	Zn	Ni	Co	Cr					
JAN	10*	26.8	40*	1.1																	
FEB	10*	26.8	40*	1.1																	
MAR	20*	53.6	40*	2.1																	
APR	20*	51.8	235	12.2	.0016		.083	.004				0.03		0.67	0.2						
MAY	100	267.8	274	73.4	.0046		.006	.004	.002	.001		1.2		1.6	1.1	0.5	0.2				
JUN	200	518.4	1,000*	518.4	.01	.009	.09	.05	.01	.01		5.18	4.66	46.7	25.9	5.2	5.2				
JUL	300	803.5	2,063	1,697.6	.06	.083	.11	.10	.028	.027		43.2	10.4	83.4	80.3	22.5	21.7				
AUG	300	803.5	1,175	944.1	.023	.078	.06	.057	.018	.031		18.43	6.4	48.2	29.7	14.5	24.9				
SEPT	200	518.4	216	127.5	.0043		.015	.004	.003	.003		2.23		7.7	2.1	1.6	1.5				
OCT	100	267.8	186	49.8	.0014		.008					0.37		2.14							
NOV	50	129.6	90*	11.7																	
DEC	20	53.6	40*	2.1																	
				3,521.6					3,401.1							75.74	21.5	195.4	139.3	44.3	53.6

The Tatsunshini carries 3.4 billion kilograms (3.7 million tons) of sediment into the Alsek every year. The sediment contains an estimated 195,400 kg (215 tons) of zinc, 139,300 kg (153 tons) of nickel, 75,740 kg (85.5 tons) of copper, 53,600 kg (59 tons) of chrome, 44,300 kg (49.8 tons) of cobalt, and 21,500 kg (23.6 tons) of lead, carried into the Alsek annually, mainly in the months of June through September.

*All numbers rounded.