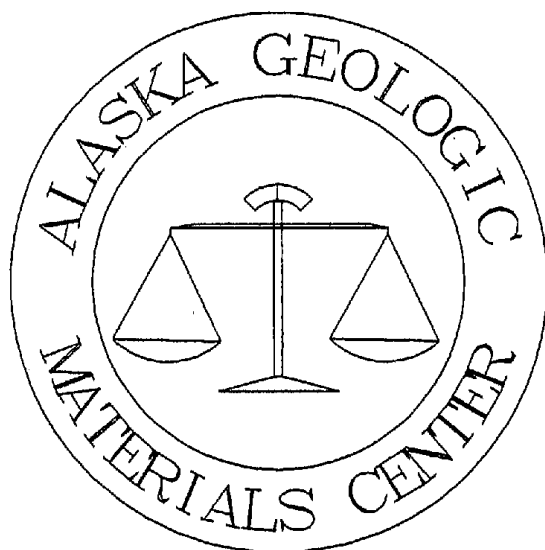


X-ray fluorescence trace element data of the following U. S. Bureau of Mines hard rock mineral pulp samples from the Colville Mining District:

West Kivliktort Mountain (CMD5601; AV91-20110.0) of Howard Pass Quad.,
Kady (CMD4183; AV91-20127.0) of Killik River Quadrangle,
Kady (CMD5455; AV91-20110.0) of Killik River Quadrangle, and
Story Creek (CMD5432; AV91-20109.0) of Howard Pass Quadrangle.



Received 1 February 1996

Total of 1 page in report

Alaska Geologic Materials Center Data Report No. 264

DATE: January 29, 1996

TO: Dr. John Reeder

FROM: Melanie Werdon

REGARDING: U. S. Bureau of Mines geochemical samples.

The following table shows the analytical results of X-ray fluorescence analyses I ran, compared to the values reported by the U. S. Bureau of Mines by ICP for various elements. The XRF analyses confirm my observation that there was interference between high Zn and Pb with the elements Mo and Bi. The Sb values are similar enough that there is likely no interference problem. Sn values are comparable except for sample 5455. The reason for this is not clear.

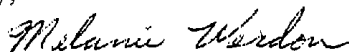
Deposit	Det. Lim. Sample #	Mo ppm		Bi ppm		Sb ppm		Sn ppm	
		XRF	1 ICP*	XRF	5-2000 ICP*	XRF	5-2000 ICP*	XRF	20-2000 ICP*
W.Kiv.Mtn.	5601	8	183	0	155	421	103	45	88
Kady	5455	58	0	0	34	3111	2000	143	0
Kady	4183	5	0	0	0	0	0	95	88
StoryCk.	5432	14	311	0	247	1759	621	84	165

* ICP data from Meyer, 1994, USBM OFR 34-94

Also, as you requested, I reminded Mr. Dan McCoy and Dr. Rainer Newberry about sending you the sample interval information for the core samples they collected this past spring.

Thank you very much for sending the samples to me. I have returned all four samples with this letter.

Sincerely,



Melanie Werdon
University of Alaska Fairbanks
Dept. of Geology & Geophysics
3rd Floor Natural Sciences Bldg.
Fairbanks, AK 99775