

Public-data File 85-32

PRELIMINARY RESULTS OF ATOMIC ABSORPTION ANALYSES OF ROCK SAMPLES,  
UPPER TALKEETNA RIVER AREA, ALASKA

By

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Alaska Division of  
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794 University Avenue, Basement  
Fairbanks, Alaska 99701

DIVISION SAMPLES

Trace Elements - Atomic Absorption

Date Analyses Complete 1-8-80 Sample Type R

Initials WJA/KBF/MP

TA#	FIELD #	LAB #	Au	Ag	Pb	Sb	Mo	As	Cu	Zn	Co	Ni					
83Ad 189a		L17113	<0.1	<0.1	7	22	<2	<15	24	101	27	13					Note: Due to lack of
83Ad 190b		L17114		0.1	5				4	5	22	4					Solution, Fe, Mn, Cd and
83Ad 191a		L17115		<0.1	7				6	53	10	6					Cr will not be done.
83Ad 193a		L17116		0.1	5				7	8	22	7					MP 1/7/85
83Ad 193b		L17117		0.1	5				64	84	20	5					
83Ad 195		L17118		<0.1	8			↓	4	123	12	<1					
83Ad 196		L17119		0.2	8			20	7	42	12	29					
83Ad 197		L17120		<0.1	4			<15	66	61	27	57					
83Ad 198a		L17121		<0.1	5				20	54	24	28					
83Ad 198b		L17122		0.2	11				3	165	22	<1					
83Ad 199a		L17123		0.1	5				26	74	25	9					
83Ad 199b		L17124		<0.1	5				12	54	22	22					
83Ad 200		L17125		0.1	10		↓		4	15	22	1					
83Ad 201b		L17126		<0.1	7		2		18	58	7	5					
83Ad 203a		L17127	↓	0.1	10	↓	<2	↓	18	89	11	<1					
QUALITY CONTROL DATA*****																	
		17120dup	<0.1	<0.1	2.8	<2	<2	<15	60	59	28	49					

#	FIELD #	LAB #	AU	AG	Pb	Sb	MO	AS	CU	Zn	Co	Ni											
	83Ad 189a	L17113	<0.1	<0.1	7	<2	<2	<15	24	101	27	13	Note: Due to lack of										
	83Ad 190b	L17114	1	0.1	5				4	5	<2	4	Solution, Fe, Mn, Cd and										
	83Ad 191a	L17115		<0.1	7				6	53	10	6	Cr will not be done.										
	83Ad 193a	L17116		0.1	5				7	8	<2	7	MP 1/7/85										
	83Ad 193b	L17117		0.1	5				64	84	20	5											
	83Ad 195	L17118		<0.1	8			↓	4	123	12	<1											
	83Ad 196	L17119		0.2	8			20	7	42	12	29											
	83Ad 197	L17120		<0.1	4			45	60	61	27	57											
	83Ad 198a	L17121		<0.1	5			1	20	54	24	28											
	83Ad 198b	L17122		0.2	11				3	165	<2	<1											
	83Ad 199a	L17123		0.1	5				26	74	25	9											
	83Ad 199b	L17124		<0.1	5				12	54	22	22											
	83Ad 200	L17125		0.1	10		↓		4	15	<2	1											
	83Ad 201b	L17126		<0.1	7		2		18	58	7	5											
	83Ad 203a	L17127	↓	0.1	10	↓	<2	↓	18	89	11	<1											
	LITY CONTROL DATA*****													*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
		17120dup	<0.1	<0.1	2.8	<2	<2	<15	60	59	28	49											

FIELD #	LAB #	Au	Ag	Pb	Sb	Mo	As	Cu	Zn	Co	Ni												
83Ad 243b	L 17158	<0.1	0.2	6	<2	<2	<15	83	109	16	5												
244b	L 17159		0.1	5				96	24	16	11												
244c	L 17160		0.2	5				8	79	2	<1												
244d	L 17161		0.1	5		31		5	56	13	4												
244e	L 17162		0.2	6		3		442	100	29	5												
244f	L 17163		1.9	17		23		497	30	57	10												
244g	L 17164		0.2	6		<2		586	80	32	4												
246a	F 17165		0.2	12			19	11	52	2	<1												
248	L 17166		0.4	8		2	<15	17	23	<2	1												
249b	L 17167		0.2	8		<2		31	60	9	3												
251a	L 17168		0.3	12				5	9	3	94												
252a	L 17169		0.1	7			19	8	58	20	93												
252b	L 17170		0.2	7			95	4	58	16	13												
253a	L 17171		0.5	7			<15	96	94	16	9												
253b	L 17172		0.4	8				116	64	16	15												
LITV CONTROL DATA													*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	17160	-0.02	0.17	5.4	-6.5	-0.1	-2.6	7.8	51.4	2.0	0.2												
	17160 dup	-0.04	0.14	5.8	-6.8	-0.0	-13.6	7.6	47.3	1.5	0.1												
	17170	-0.03	0.17	6.9	-6.3	-0.1	98.4	3.9	56.3	15.6	12.8												
	17170 dup	-0.03	0.16	6.7	-6.9	-0.1	91.1	4.1	59.3	16.7	13.9												

NOTE: Fe, Mn, Cd, Cr  
not run due to lack of  
sample sent  
1/10/85 WJT

Contract Prof. 12.11.01 Ho 0 0007 MA

FIELD #	LAB #	Au	Ag	Pb	Sb	Mo	As	Cu	Zn	Co	Ni	NOTE: Fe, Mn, Cd
83AD 328C	L 17268	<0.1	<0.1	35	<2	<2	<15	35	65	24	50	not run due to lead
313C	L 17269	0.1	0.1	<2	<2			22	19	10	5	exp. solution
333a	L 17270	0.2	0.2	11	↓			4	14	<2	1	
331b	L 17271	0.3	0.3	18	9			18	71	↓	5	
358b	L 17272	0.2	0.2	8	<2			8	30	↓	1	
331d	L 17273	0.1	0.1	3	↓			56	93	21	15	
262b	L 17274	0.1	0.1	8	<2			6	53	<2	2	
205b	F 17275	0.1	0.1	4	<2			43	93	31	18	
204c	L 17276	7.2	7.2	8	↓			3300	46	58	33	
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	L											
	L											
	L											
	L											
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	L											
CITY CONTROL DATA*****												
	17270	<0.1	0.2	11	<2	<2	<15	4	14	<2	1	
	17270dup	<0.1	0.2	11	<2	<2	<15	4	14	<2	1	

continued on page 91 - 17270dup

#	FIELD #	LAB #	AU	AG	Pb	Sb	Mo	As	Cu	Zn	Co	Ni	Note: Due to lack of solutions, the remaining elements will not be run. 1/9/85 M.F.
	83-FN-87	L17598	<0.1	0.1	9	<2	<2	<15	14	44	7	6	
	83-FN-98	L17599			<2				3	27	2	1	
	83-FN-102	L17600			2				5	50	3	1	
	83-FN-105	L17601			<2				117	16	16	41	
	83-FN-106	L17602			2				13	46	5	21	
	83-FN-106a	L17603		↓	2				5	32	7	2	
	83-FN-123	L17604		0.2	<2				50	31	20	46	
	83-FN-132a	L17605		↓	10				64	66	23	7	
	83-FN-132b	L17606		↓	43				32	78	14	2	
	83-FN-133	L17607		0.1	4				54	59	22	8	
	83-FN-135b	L17608		0.2	<2	↓			76	10	8	60	
	83-FN-138	L17609		0.3	5	6			3	2	<2	3	
	83-FN-140b	L17610	↓	0.1	<2	<2	↓	↓	3	45	4	1	
		L											
		L											
***** CITY CONTROL DATA *****													
		17600dup	<0.1	<0.1	2.0	<2	<2	<15	6	54	4	1	
		17610dup	<0.1	<0.1	1.0	<2	<2	<15	3	42	4	1	

See notes pages 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

FIELD #	LAB #	AU	AG	Pb	Sb	Mo	AS	Cu	Zn	NI	Co	Notes: Due to lack of
83-FN-116b	L17591	<0.1	0.2	16	<5	<2	<15	3	18	<2	3	Solution, the remain-
83-FN-120b	L17592		↓	3				5	22	<2	2	ing elements will not
83-FN-135c	L17593		<0.1	<2				83	22	14	46	bed run.
83-FN-136a	L17594		0.1	2				54	23	16	56	1/9/85 MP
83-FN-141	L17595		↓	↓				123	33	17	12	
83-But-3	L17596		<0.1	4				19	45	5	2	
83-But-5b	L17597	↓	0.1	2	↓	↓	↓	16	48	4	4	
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LITY CONTROL DATA*****												*****
	17597dup	<0.1	0.1	2	<5	<2	<15	16	60	4	4	

FIELD #	LAB #	Au	Ag	Pb	Sb	Mo	As	Cu	Zn	Co	Ni	Note: Due to lack of
83-Let-4	L17535	<0.1	0.1	4	<5	<2	<15	21	7	<2	2	solution. The remain-
83-Let-16B	L17536			3				37	104	28	17	ing elements will not
83-Let-27	L17537			4				6	21	<2	4	be run.
83-Let-30	L17538			3		↓		40	69	14	19	1/9/85
83-Let-31A	L17539		0.2	8		2		4	103	<2	1	
83-Let-32A	L17540		<0.1	6	↓	<2		3	113	<2	<1	
83-Let-38	L17541		1.0	25	23			5	7	sol.	6	
83-Let-56	L17542		0.2	7	<5			10	27	sol.	1	
83-Let-59c	L17543			3				6	41	<2	2	
83-Let-64	L17544			7				12	97	7	4	
83-Let-65A	L17545			3				20	84	9	6	
83-Let-67B	L17546			6		↓		6	29	<2	5	
83-Let-82A	L17547			7		5		10	26	<2	1	
83-Let-63	L17548		0.1	48		2		13	42	<2	<1	
83-Let-88c	L17549			4	↓	<2	↓	12	70	5	2	
LITY CONTROL DATA*****												
	L17542dup	<0.1	0.2	7	<5	<2	<15	3	29	<2	2	



Trace Elements - Atomic Absorption

Date Analyses Complete 1-8-85 Sample Type R

Initials DA MP KB

FIELD #	LAB #	AU	AG	Pb	Sb	Mo	As	Cu	Zn	Co	Ni	Notes
83-LT-84A	L1755-6	<0.1	0.6	23	<5	4	<15	460	69	no sol.	no sol.	Botle: Due to lack of solution, the remaining elements will not be run. 7/9/85 M.P.
83-LT-84B	L1755-1	↓	0.9	15	↓	17	↓	790	100	8	10	
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QUALITY CONTROL DATA *****												
17557 dup		<0.1	0.9	14	<5	16	<15	no sol.	no sol.	no sol.	no sol.	