OPEN-FILE REPORT
93-215
SHEET 7 OF 9

ABBY CREEK

Sample Number	Ca	Fe	Mg	Na	P	Ti	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ga	Ge	La	Mn	Mo	Nb	Ni	Pb	Sb	Sc	Sn	Sr	Th	V	Y	Zn	Zr
Detection Limit	0.05	0.05	0.02	0.2	0.2	0.002	0.5	200	10	10	20	1	10	20	10	10	5	5	10	50	10	5	20	5	10	100	5	10	100	100	10	10	200	10
FOO 8417	L	L	L	N	N	0.01	N	N	N	L	G10000	N	N	N	N	10	L	N	N	N	10	5	N	N	N	N	N	N	G5000	N	20	N	N	L
" 8418	N	N	L	N	N	N	N	N	N	N	G10000	N	N	N	N	L	N	N	N	N	30	N	N	N	N	N	N	N	2000	N	L	N	N	N
" 8419	N	0.1	L	N	N	0.002	N	N	N	N	G10000	N	N	N	L	L	L	N	N	N	100	N	N	N	N	N	N	N	5000	N	20	L	N	15
FOO 8424	N	N	L	N	N	0.005	N	N	N	N	G10000	N	N	N	N	L	N	N	N	N	L	N	N	N	N	N	N	N	G5000	N	15	N	N	N

BION

Sample Number	Ca	Fe	Mg	Na	P	Ti	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ga	Ge	La	Mn	Mo	Nb	Ni	Pb	Sb	Sc	Sn	Sr	Th	V	Y	Zn	Zr
Detection Limit	0.05	0.05	0.02	0.2	0.2	0.002	0.5	200	10	10	20	1	10	20	10	10	5	5	10	50	10	5	20	5	10	100	5	10	100	100	10	10	200	10
FOO 8420	L	N	L	N	N	L	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	N	N	N	N	N	N	N	N	G5000	N	L	N	N	N
" 8421	L	N	L	N	N	0.07	N	N	N	N	G10000	N	N	N	N	15	N	N	N	N	L	5	N	N	N	N	N	N	G5000	N	30	N	N	15
FOO 8397	N	N	L	N	N	0.003	N	N	N	N	G10000	N	N	N	N	L	N	N	N	N	N	N	N	N	N	N	N	N	5000	N	15	N	N	N

NIMIUKTUK

Sample Number	Ca	Fe	Mg	Na	P	Ti	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ga	Ge	La	Mn	Mo	Nb	Ni	Pb	Sb	Sc	Sn	Sr	Th	V	Y	Zn	Zr
Detection Limit	0.05	0.05	0.02	0.2	0.2	0.002	0.5	200	10	10	20	1	10	20	10	10	5	5	10	50	10	5	20	5	10	100	5	10	100	100	10	10	200	10
FOO 8422	N	N	L	N	N	0.01	N	N	N	N	G10000	N	N	N	N	L	L	N	N	N	N	5	N	N	N	N	N	N	3000	N	15	N	N	L

THE STACK

Sample Number	Ca	Fe	Mg	Na	P	Ti	Ag	As	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	Ga	Ge	La	Mn	Mo	Nb	Ni	Pb	Sb	Sc	Sn	Sr	Th	V	Y	Zn	Zr
Detection Limit	0.05	0.05	0.02	0.2	0.2	0.002	0.5	200	10	10	20	1	10	20	10	10	5	5	10	50	10	5	20	5	10	100	5	10	100	100	10	10	200	10
FOO 8398	L	N	0.1	N	N	N	N	N	N	N	G10000	N	N	N	N	N	N	N	N	N	70	N	N	N	N	N	N	N	G5000	N	L	N	N	N
" 399	N	N	N	N	N	0.002	N	N	N	N	G10000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	5000	N	10	N	N	N
" 400	N	N	L	N	N	0.003	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	N	N	N	N	N	N	N	N	G5000	N	L	N	N	N
" 401	L	N	N	N	N	L	N	N	N	N	G10000	N	N	N	N	N	N	N	N	N	10	N	N	N	N	N	N	N	5000	N	L	N	N	N
" 402	L	N	L	N	N	0.002	N	N	N	N	G10000	N	N	N	N	N	N	N	N	N	70	N	N	N	N	N	N	N	5000	N	L	N	N	N
" 403	L	N	L	N	N	0.003	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	L	N	N	N	N	N	N	N	5000	N	15	N	N	L
" 404	L	N	N	N	N	N	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	N	5	N	N	N	N	N	N	5000	N	15	N	N	N
" 405	L	N	N	N	N	N	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	N	L	N	N	N	N	N	N	5000	N	15	N	N	N
" 406	L	N	L	N	N	0.005	N	N	N	L	G10000	N	N	N	15	N	L	N	N	N	20	N	N	N	N	N	N	N	5000	N	10	N	N	20
" 407	0.2	0.3	0.02	N	N	L	N	N	N	N	G10000	N	N	N	10	L	L	N	N	N	50	N	N	N	N	N	N	N	3000	N	15	N	N	N
" 408	L	N	N	N	N	0.002	N	N	N	N	G10000	N	N	N	L	L	L	N	N	N	N	N	N	N	N	N	N	N	5000	N	20	N	N	N
" 409	L	N	L	N	N	0.005	N	N	N	10	G10000	N	N	N	10	N	L	N	N	N	10	N	N	N	N	N	N	N	3000	N	15	N	N	20
" 410	L	N	N	N	N	L	N	N	N	N	G10000	N	N	N	L	L	L	N	N	N	N	N	N	N	N	N	N	N	5000	N	15	N	N	N
" 411	N	N	L	N	N	0.01	N	N	N	L	G10000	N	N	N	L	L	N	N	N	N	N	N	N	N	N	N	N	N	G5000	N	15	N	N	L
" 412	2	0.05	0.02	N	N	0.005	N	N	N	N	G10000	N	N	N	15	L	N	N	N	N	200	N	N	N	N	N	N	N	5000	N	10	L	N	L
" 413	0.2	N	N	N	N	N	N	N	N	N	G10000	N	N	N	L	N	N	N	N	N	50	N	N	N	N	N	N	N	5000	N	10	N	N	N
" 414	N	N	N	N	N	L	N	N	N	N	G10000	N	N	N	10	10	N	N	N	N	N	N	N	N	N	N	N	N	G5000	N	15	N	N	N
" 415	N	N	L	L	N	0.015	N	N	N	L	G10000	N	N	N	15	N	N	N	N	N	N	N	N	N	N	N	N	N	G5000	N	L	N	N	N
" 416	N	N	N	N	N	L	N	N	N	N	G10000	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	2000	N	15	N	N	N
" 8425	0.05	0.05	L	N	N	0.015	N	N	N	N	G10000	N	N	N	N	10	5	N	N	N	N	L	N	N	N	N	N	N	5000	N	30	N	N	15
FOO 8426																																		

Results by semi-quantitative spect. G = greater than
N = not detected at limit of detection
L = dectected but below limit of determination
Values reported in parts per million (ppm)
Ca, Fe, Mg, Na, P, and Ti in percent; all other elements in parts per million
Analyst: E.A. Bailey

TABLE 2. Chemical analyses of samples from the Abby Creek, Bion, Nimiuktuk, and Stack barite deposits.

ABBY CREEK

Sample Number	As	Cu	Pb	Zn	Ag	Cd	Bi	Sb
FOO 8417	N(10)	N(5)	N(5)	5	0.1	0.2	N(1)	N(2)
" 8418	N(10)	N(5)	N(5)	5	0.05	N(1)	N(1)	N(2)
" 8419	N(10)	5	N(5)	25	0.1	0.5	N(1)	N(2)
FOO 8424	N(10)	N(5)	N(5)	5	0.05	0.1	N(1)	N(2)

BION

Sample Number	As	Cu	Pb	Zn	Ag	Cd	Bi	Sb
FOO 8420	N(10)	N(5)	N(5)	N(5)	0.1	N(1)	N(1)	N(2)
" 8421	N(10)	N(5)	N(5)	5	0.1	0.1	N(1)	N(2)
FOO 8397	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)

NIMIUKTUK

Sample Number	As	Cu	Pb	Zn	Ag	Cd	Bi	Sb
FOO 8422	N(10)	N(5)	N(5)	N(5)	0.05	N(1)	N(1)	N(2)

THE STACK

Sample Number	As	Cu	Pb	Zn	Ag	Cd	Bi	Sb
FOO 8398	N(10)	N(5)	N(5)	5	N(.05)	N(1)	N(1)	N(2)
" 399	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 400	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 401	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 402	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 403	N(10)	N(5)	N(5)	5	N(.05)	0.2	N(1)	N(2)
" 404	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 405	N(10)	N(5)	N(5)	10	N(.05)	N(1)	N(1)	N(2)
" 406	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 407	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 408	N(10)	N(5)	N(5)	5	N(.05)	N(1)	N(1)	N(2)
" 409	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 410	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 411	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 412	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 413	N(10)	N(5)	N(5)	5	N(.05)	N(1)	N(1)	N(2)
" 414	N(10)	N(5)	N(5)	5	N(.05)	0.1	N(1)	N(2)
" 415	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 416	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
" 8425	N(10)	N(5)	N(5)	N(5)	N(.05)	N(1)	N(1)	N(2)
FOO 8426	N(10)	5	N(5)	N(5)	0.05	N(1)	N(1)	N(2)

Extraction by methyl isobutal ketone and analysis by atomic absorption
Values in parts per million (ppm)

	Lower limit (ppm)	Upper limit (ppm)
Ag	0.05	100
As	10	2000
Bi	1	1000
Cd	0.1	100
Cu	5	1000
Pb	5	1000
Sb	2	1000
Zn	5	2000

Analysts: F.W. Brown and Z.A. Brown

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.