

Bondar-Clegg & Company Ltd.
 5420 Canotek Road
 Ottawa, Ontario
 K1J 8X5
 (613) 749-2220 Telex 053-3233



Geochemical
 Lab Report

803853
 Sulphurets

REPORT: 089-50359.0 (COMPLETE)

REFERENCE INFO:

CLIENT: GEOLOGICAL SURVEY OF CANADA
 PROJECT: 23233-6-1332

SUBMITTED BY: R. MACKENZIE
 DATE PRINTED: 24-FEB-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Na Sodium	102	0.02 PCT		Neutron Activation
2	Sc Scandium	102	0.2 PPM		Neutron Activation
3	Cr Chromium	102	20 PPM		Neutron Activation
4	Fe Iron	102	0.2 PCT		Neutron Activation
5	Co Cobalt	102	5 PPM		Neutron Activation
6	Ni Nickel	102	20 PPM		Neutron Activation
7	Zn Zinc	102	100 PPM		Neutron Activation
8	As Arsenic	102	0.5 PPM		Neutron Activation
9	Se Selenium	102	5 PPM		Neutron Activation
10	Br Bromine	102	0.5 PPM		Neutron Activation
11	Rb Rubidium	102	5 PPM		Neutron Activation
12	Zr Zirconium	102	200 PPM		Neutron Activation
13	Mo Molybdenum	102	1 PPM		Neutron Activation
14	Ag Silver	102	2 PPM		Neutron Activation
15	Cd Cadmium	102	5 PPM		Neutron Activation
16	Sn Tin	102	100 PPM		Neutron Activation
17	Sb Antimony	102	0.1 PPM		Neutron Activation
18	Te Tellurium	102	10 PPM		Neutron Activation
19	Cs Cesium	102	0.5 PPM		Neutron Activation
20	Ba Barium	102	50 PPM		Neutron Activation
21	La Lanthanum	102	2 PPM		Neutron Activation
22	Ce Cerium	102	5 PPM		Neutron Activation
23	Sm Samarium	102	0.05 PPM		Neutron Activation
24	Eu Europium	102	1 PPM		Neutron Activation
25	Tb Terbium	102	0.5 PPM		Neutron Activation
26	Yb Ytterbium	102	2 PPM		Neutron Activation
27	Lu Lutetium	102	0.2 PPM		Neutron Activation
28	Hf Hafnium	102	1 PPM		Neutron Activation
29	Ta Tantalum	102	0.5 PPM		Neutron Activation
30	W Tungsten	102	1 PPM		Neutron Activation
31	Ir Iridium	102	50 PPB		Neutron Activation
32	Au Gold	102	2 PPB		Neutron Activation
33	Th Thorium	102	0.2 PPM		Neutron Activation
34	U Uranium	102	0.2 PPM		Neutron Activation
35	WT Test Weight	102	0.01 g		

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SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	102	AS RECEIVED	102	As Received, No SP	102

REMARKS: SAMPLES

1048	889550	11400 PPM AS	
1048	889551	9680 PPM AS	
1048	889591	12000 PPM AS	13.4% ZN
1048	889649	9920 PPM AS	11.1% ZN

REPORT COPIES TO: ROSEMARY MACKENZIE

INVOICE TO: ROSEMARY MACKENZIE

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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
1048 889542	AP-BB-36A	1.80	11.0	<20	3.4	10	<20	160	14.0	<5	<0.5	110	<200
1048 889543	36B	0.02	<0.2	<20	0.6	<5	<20	300	109.0	<5	1.5	14	<200
1048 889544	36C	0.16	8.9	<110	3.2	<5	<30	170	4610.0	<18	<36.0	180	<780
1048 889545	36D	1.50	13.0	<20	4.1	<5	<20	150	202.0	<5	2.4	150	<200
1048 889546	36E	0.05	4.1	<91	2.1	<5	<24	270	3320.0	<15	<29.0	46	<610
1048 889547	36F	0.08	4.4	<20	1.8	<5	<20	130	367.0	7	2.8	51	<200
1048 889548	36G	0.10	7.2	25	2.0	<5	<20	180	380.0	<5	3.5	110	<200
1048 889549	36H	0.62	9.1	<59	3.0	6	<20	200	1670.0	<5	<14.0	170	<440
1048 889550	36I	<1.30	7.4	<51	3.1	5	<20	230	>9000.0	<5	<66.0	130	<200
1048 889551	36J	<1.00	7.9	<44	2.8	5	<20	150	>9000.0	<5	<54.7	130	<200
1048 889552	36K	<1.10	8.6	<44	3.2	<5	<20	180	7900.0	<5	<46.0	150	<200
1048 889553	36L	0.06	7.0	<20	2.1	<5	<20	120	462.0	<5	4.6	130	<200
1048 889554	37	3.84	13.0	47	7.9	30	<20	140	82.4	<5	0.7	51	620
1048 889555	38A	0.13	14.0	25	3.1	15	<20	270	105.0	<5	0.5	190	<200
1048 889556	38B	<0.06	11.0	<120	2.6	<5	<32	370	7120.0	<19	<61.4	170	<810
1048 889557	38C	2.29	13.0	<20	4.0	8	<20	240	50.2	<5	1.0	170	<200
1048 889558	39A	0.11	10.0	25	2.5	6	<20	150	141.0	<5	1.9	130	<200
1048 889559	39B	0.32	123.0	720	6.8	54	75	220	<0.5	<5	<0.5	<5	<200
1048 889560	KR-40-39B	0.82	21.3	<20	3.7	13	<20	170	414.0	<5	3.1	110	<200
1048 889561	-	<0.06	2.6	<67	1.4	<5	<20	390	405.0	<11	13.0	38	<420
1048 889562	39C	<0.02	7.6	<20	5.3	8	<20	4600	278.0	<5	2.7	35	<200
1048 889563	40A	0.41	5.9	<20	1.6	8	<20	220	97.8	<5	1.6	160	<200
1048 889564	40B	<0.02	2.9	<20	0.3	<5	<20	110	51.9	<5	1.6	7	<200
1048 889565	40C	0.08	13.0	24	2.9	7	<20	210	219.0	<5	2.1	120	<200
1048 889566	41A	0.10	7.7	20	1.2	<5	<20	150	330.0	<5	2.4	60	<200
1048 889567	41B	<0.07	2.9	<75	1.4	<5	<20	320	414.0	<12	13.0	31	<470
1048 889568	42	1.00	5.6	39	2.3	6	<20	140	26.0	<5	1.8	120	<200
1048 889569	43A	3.01	26.8	240	5.4	27	53	190	16.0	<5	4.2	31	<200
1048 889570	43B	4.20	29.0	<20	8.3	23	<20	170	4.4	<5	0.7	33	<400
1048 889571	43C	3.88	33.0	50	8.5	35	<20	210	3.7	<5	0.6	25	<200
1048 889572	44A	3.15	29.0	110	5.9	26	30	180	12.0	<5	0.6	59	<200
1048 889573	44B	1.80	30.9	68	7.1	25	<20	240	24.0	<5	2.6	99	<200
1048 889574	44C	1.90	26.2	370	5.3	31	110	140	81.2	<5	1.8	66	<200
1048 889575	44D	0.72	20.6	41	5.5	17	<20	230	32.0	<5	0.9	140	<200
1048 889576	44E	3.36	32.4	270	7.9	35	100	210	38.0	<5	1.4	63	<200
1048 889577	44F	2.59	38.2	220	8.5	39	61	190	10.0	<5	1.0	48	<200
1048 889578	45A	3.51	14.0	33	4.2	9	<20	160	7.1	<5	<0.5	92	<200
1048 889579	-	0.32	121.0	720	6.8	58	66	140	<0.5	<5	<1.1	<5	<450
1048 889580	AP-45B	0.44	7.2	<20	3.4	6	<20	220	5.9	<5	0.7	190	<200
1048 889581	-	1.50	7.6	29	0.7	10	<20	<100	60.6	<5	1.6	110	<200

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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
104B 889542	KQ-08-36A	3	<2	<5	<100	3.3	<10	7.6	2600	16	36	3.30	1
104B 889543	36B	<1	79	<5	<100	25.2	<10	<0.5	95	4	<12	1.00	1
104B 889544	36C	11	<7	<16	<490	89.5	<72	8.4	3300	15	47	3.40	<3
104B 889545	36D	<1	<2	<5	<100	7.9	<10	9.1	2900	13	<11	2.50	2
104B 889546	36E	6	<5	<13	<410	144.0	<59	2.1	490	3	<34	1.00	3
104B 889547	36F	8	5	<5	<100	12.5	<10	1.6	790	5	<12	1.00	<1
104B 889548	36G	4	<2	<5	<100	10.7	<10	5.8	2000	10	<13	1.60	<1
104B 889549	36H	5	<2	<5	<260	34.8	<38	7.7	2600	15	39	3.20	<1
104B 889550	36I	4	<2	<22	<220	208.0	<41	6.2	1500	14	<19	3.10	<1
104B 889551	36J	5	<2	<19	<100	148.0	<35	6.9	1700	15	36	3.40	<1
104B 889552	36K	5	3	<19	<100	144.0	<35	6.9	1500	13	31	3.20	<1
104B 889553	36L	3	5	<5	<100	26.0	<29	5.3	1100	8	<14	1.80	<1
104B 889554	37	<1	4	<5	<100	14.3	<10	<0.5	1800	49	91	8.70	3
104B 889555	38A	3	<2	<5	<100	4.8	<10	13.0	2200	15	24	2.60	<1
104B 889556	38B	6	<7	<21	<510	149.0	<78	6.8	2300	15	<43	2.80	<3
104B 889557	38C	2	3	<5	<100	5.1	<10	10.0	2900	15	28	3.00	2
104B 889558	39A	3	2	<5	<100	5.9	<10	5.8	1200	7	<5	1.30	<1
104B 889559	-	<1	<2	<5	<100	0.4	<10	0.8	<50	<2	<5	1.10	<1
104B 889560	39B	<1	<2	<5	<100	10.7	<10	6.4	1600	23	42	3.70	<1
104B 889561	-	8	140	<12	<310	222.0	<45	<0.5	660	<2	<25	0.34	<2
104B 889562	39C	<1	48	28	<100	25.4	<21	1.3	310	21	18	3.30	<1
104B 889563	40A	2	<2	<5	<100	15.9	<10	8.4	1600	10	16	1.70	<1
104B 889564	40B	2	<2	<5	<100	22.9	<10	<0.5	81	3	11	<0.20	<1
104B 889565	40C	4	6	<5	<100	15.5	<10	7.4	1800	18	39	2.70	<1
104B 889566	41A	6	2	<5	<100	10.0	<10	3.1	810	9	15	1.10	<1
104B 889567	41B	10	150	<14	<340	228.0	<50	1.3	460	2	<27	0.31	<2
104B 889568	42	1	3	<5	<100	9.3	<10	10.0	1200	8	18	1.40	<1
104B 889569	43A	2	4	<5	<100	5.5	<10	0.6	1100	9	19	2.40	<1
104B 889570	43B	<1	<2	<5	<100	2.4	<10	<0.5	1900	35	63	6.40	2
104B 889571	43C	<1	<2	<5	<100	5.2	<10	<0.5	1100	33	56	6.30	1
104B 889572	44A	<1	<2	<5	<100	2.6	<10	0.7	1600	11	12	2.90	<1
104B 889573		<1	<2	<5	<100	2.3	<10	1.5	2900	14	25	4.50	<1
104B 889574		<1	<2	<5	<100	4.5	<10	1.1	2000	12	19	2.50	<1
104B 889575		<1	<2	<5	<100	9.2	<10	1.0	3900	23	41	3.70	1
104B 889576		14	<2	<5	<100	5.4	<10	0.9	1500	12	20	3.10	<1
104B 889577	44F	<1	<2	<5	<100	0.8	<10	1.7	1400	13	24	4.00	1
104B 889578	45A	<1	<2	<5	<100	2.1	<10	3.4	4600	16	18	2.20	<1
104B 889579	-	<1	<4	<5	<100	<0.1	<10	<0.5	<50	<2	<5	1.10	<1
104B 889580	45B	1	3	<5	<100	5.2	<10	5.6	4300	13	16	1.60	<1
104B 889581	-	3290	<2	<5	<100	34.3	<23	4.1	2300	26	28	2.50	2

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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
104B 889542	36A	<0.5	2	<0.2	3	0.7	4	<50	11	5.2	3.2	6.43
104B 889543	36B	<0.5	<2	<0.2	<1	<0.5	<1	<50	1950	<0.2	0.3	5.91
104B 889544	36C	<0.5	10	<0.5	<4	<0.5	3	<130	1640	4.1	1.7	5.12
104B 889545	36D	<0.5	<2	<0.2	3	0.5	4	<50	27	5.0	3.0	5.76
104B 889546	36E	<0.5	8	<0.4	<4	<0.5	<2	<110	2490	2.0	<0.7	6.70
104B 889547	36F	<0.5	<2	<0.2	<1	<0.5	<1	<50	1190	1.7	0.9	5.70
104B 889548	36G	<0.5	2	<0.2	2	<0.5	3	<50	1130	3.1	1.8	5.06
104B 889549	36H	<0.5	6	<0.2	<2	<0.5	4	<50	1040	4.2	2.8	5.27
104B 889550	36I	<0.5	9	0.5	<1	<0.5	<15	<50	3520	3.3	1.7	5.55
104B 889551	36J	<0.5	7	0.3	<1	<0.5	<13	<50	4030	3.6	2.1	5.82
104B 889552	36K	<0.5	6	0.3	2	<0.5	<14	<50	5230	4.6	1.8	4.98
104B 889553	36L	<0.5	3	<0.2	<1	<0.5	<1	<50	685	2.6	1.2	5.06
104B 889554	37	1.0	<2	<0.2	6	2.0	<2	<50	<5	6.3	1.6	7.06
104B 889555	38A	<0.5	3	<0.2	2	0.8	2	<50	23	5.1	3.4	4.24
104B 889556	38B	<0.5	13	<0.6	<4	<0.5	6	<140	1900	3.2	1.4	6.19
104B 889557	38C	0.6	<2	<0.2	3	0.6	5	<50	13	4.4	2.9	6.66
104B 889558	39A	<0.5	<2	<0.2	<1	<0.5	4	<50	170	1.5	1.3	6.00
104B 889559	-	<0.5	<2	<0.2	<1	<0.5	<2	<50	<2	0.2	<0.2	10.51
104B 889560	39B	<0.5	4	<0.2	2	<0.5	<1	<50	120	5.9	3.3	5.24
104B 889561	-	<0.5	3	<0.2	<3	<0.5	<4	<50	1850	<0.9	<0.6	5.57
104B 889562	KR-88-39C	<0.5	<2	<0.2	<1	<0.5	6	<50	2120	1.3	<0.2	5.66
104B 889563	40A	<0.5	<2	<0.2	2	<0.5	1	<50	16	2.3	1.6	5.53
104B 889564	40B	<0.5	<2	<0.2	3	<0.5	63	<50	<2	3.4	3.8	5.80
104B 889565	40C	0.6	<2	<0.2	<1	<0.5	3	<50	2840	7.4	2.7	4.96
104B 889566	41A	<0.5	<2	<0.2	1	<0.5	<1	<50	839	1.3	0.4	6.95
104B 889567	41B	<0.5	4	<0.2	<3	<0.5	<4	<50	1700	1.0	<0.7	6.35
104B 889568	42	<0.5	<2	<0.2	2	<0.5	3	<50	13	2.1	1.8	6.74
104B 889569	43A	<0.5	<2	<0.2	1	<0.5	<2	<50	<2	2.0	1.6	6.81
104B 889570	43B	1.1	3	0.3	4	0.6	<2	<50	6	3.0	1.1	6.74
104B 889571	43C	1.0	4	0.3	3	0.6	<2	<50	<2	2.5	0.7	7.91
104B 889572	44A	0.9	2	<0.2	3	<0.5	<2	<50	<2	2.3	1.3	7.59
104B 889573	44B	1.0	3	0.2	3	0.5	<2	<50	<2	2.8	1.9	7.94
104B 889574	44C	<0.5	<2	<0.2	3	<0.5	<2	<50	4	2.3	1.5	7.31
104B 889575	44D	0.8	2	<0.2	4	0.8	8	<50	26	6.1	4.0	6.72
104B 889576	44E	0.8	<2	<0.2	2	0.7	3	<50	10	2.7	1.8	7.41
104B 889577	44F	0.9	<2	<0.2	2	<0.5	<3	<50	<2	2.5	1.5	7.84
104B 889578	KR-88-45A	<0.5	<2	<0.2	2	<0.5	<2	<50	<4	5.7	2.6	6.00
104B 889579	-	<0.5	<2	<0.2	<1	<0.5	<3	<50	<4	<0.2	0.2	11.96
104B 889580	45B	0.5	<2	<0.2	2	<0.5	<1	<50	120	4.6	2.0	4.73
104B 889581	-	1.4	<2	<0.2	2	<0.5	25	<50	73	3.0	3.8	6.90

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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
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104B	889582	KQ-88-45C	2.29	15.0	23	4.4	9	<20	230	6.3	<5	<0.5	120	<200
104B	889583	46A	0.13	18.0	<20	3.7	38	<20	170	49.0	20	1.2	160	<200
104B	889584	46B	1.70	8.3	<20	0.7	13	<20	200	59.1	<5	<1.8	120	<200
104B	889585	46C	0.12	27.4	<20	1.8	27	<20	170	46.0	<5	4.0	200	<200
104B	889586	46D	1.70	8.7	<20	0.8	14	<20	110	60.6	<5	1.5	110	<200

104B	889587	46E	0.26	15.0	<20	3.7	7	<20	150	246.0	<5	2.0	210	<200
104B	889588	47A	0.13	7.9	37	3.0	10	<20	110	8.0	30	<1.6	140	<200
104B	889589	47B	0.17	27.5	<20	5.4	17	<20	150	128.0	<5	1.9	230	<200
104B	889590	47C	2.42	17.0	<20	3.7	7	<20	150	9.0	<5	0.9	220	<200
104B	889591	47D	<1.80	16.0	<61	4.1	87	34	>90000	>9000.0	<5	<67.8	120	<760

104B	889592	48A	4.59	6.2	31	2.2	<5	<20	<100	20.0	<5	<0.5	71	<200
104B	889593	48B	2.00	5.5	20	2.3	6	<20	310	18.0	<5	<0.5	130	<200
104B	889594	48C	<0.16	2.0	<120	6.6	<5	<42	70900	274.0	<20	22.0	30	<1100
104B	889595	48D	5.21	7.1	51	3.7	<5	<20	190	40.0	<5	<1.3	40	<200
104B	889596	48E	4.10	21.5	<20	3.9	17	<20	180	43.0	<5	<0.5	93	<200

104B	889597	49	4.11	24.3	42	3.7	<5	<20	290	22.0	<5	1.9	59	440
104B	889628	KQ-88-60A	1.50	5.8	<20	2.7	<5	<20	160	4.2	<5	<1.3	43	<200
104B	889629	60B	0.40	2.7	<20	1.5	<5	<20	170	16.0	<5	0.6	47	<200
104B	889630	60C	3.42	45.4	<20	7.5	29	<20	160	21.0	<5	<0.5	38	<200
104B	889631	60D	2.80	47.8	35	9.1	36	<20	230	6.5	<5	1.3	41	<200

104B	889632	60E	4.56	23.5	<20	7.2	27	<20	210	27.0	<5	1.1	25	<200
104B	889633	60F	4.01	34.1	22	7.6	30	<20	190	7.9	<5	0.6	23	<200
104B	889634	61	2.09	18.0	35	4.5	15	<20	420	27.0	<5	1.6	72	<200
104B	889635	62A	0.13	35.5	100	8.0	32	20	250	42.0	<5	1.0	110	<200
104B	889636	62B	0.59	45.6	49	7.6	16	<20	360	21.0	<5	1.1	110	<200

104B	889637	62C	1.90	36.7	85	6.1	22	<20	180	14.0	9	0.6	82	<200
104B	889638	62D	1.20	30.6	<20	5.3	21	<20	240	13.0	<5	1.1	100	<200
104B	889639	—	0.32	135.0	780	7.4	59	60	230	<1.1	<5	<1.2	<5	<200
104B	889640	62E	0.15	30.0	37	6.9	20	<20	210	143.0	<5	4.6	100	<200
104B	889641	—	1.30	28.0	390	5.9	28	88	150	42.0	<5	2.5	85	<200

104B	889642	63A	3.68	12.0	<20	4.6	9	<20	270	8.3	<5	0.5	66	<200
104B	889643	KQ-88-63B	0.23	41.2	81	10.0	31	<20	3000	24.0	<5	<0.5	110	<200
104B	889644	63C	2.00	41.4	62	6.2	30	21	270	21.0	<5	0.5	87	<200
104B	889645	64A	0.88	13.0	46	5.7	13	27	240	29.0	<5	1.7	120	360
104B	889646	64B	1.90	32.1	<20	7.4	26	<20	320	16.0	<5	1.6	70	<200

104B	889647	64C	1.20	25.7	390	5.5	26	84	190	41.0	<5	3.1	91	<200
104B	889648	66	2.67	18.0	<20	4.1	13	<20	160	3.9	<5	1.8	85	<200
104B	889649	67	0.27	13.0	<130	3.0	68	<49	>90000	>9000.0	<21	<83.8	65	<1200
104B	889650	KQ-88-66A*	1.50	45.4	47	9.1	40	<20	330	15.0	<5	<0.5	84	<200
104B	889651	66B*	2.66	54.2	100	7.2	26	<20	270	5.1	<5	0.8	35	<200

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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
45C 104B 889582	KQ-88-45C	<1	<2	<5	<100	3.7	<10	3.2	4700	15	22	2.70	<1
104B 889583	46A	105	<2	<5	<100	13.4	<10	4.1	16500	9	<15	0.83	<1
104B 889584	46B	3260	<2	<5	<100	35.5	<26	3.7	2300	26	<18	2.50	<1
104B 889585	46C	10	<2	<5	<100	64.4	<25	7.3	5400	11	21	0.69	<1
104B 889586	46D	3310	<2	<5	<100	36.1	<24	4.0	2300	28	33	2.60	<1
104B 889587	46E	7	6	<5	<100	13.5	<21	3.6	6140	11	18	1.20	<1
104B 889588	47A	1580	18	<5	<100	11.8	<20	1.8	11000	218	230	5.00	<1
104B 889589	47B	81	<2	<5	<100	28.3	<20	5.0	4700	26	27	3.50	<1
104B 889590	47C	5	<2	<5	<100	2.7	<10	3.4	6700	10	<11	1.70	1
104B 889591	47D	26	15	1630	<250	232.0	<47	3.2	3000	8	<25	1.50	<1
104B 889592	48A	2	<2	<5	<100	2.7	<10	1.1	770	7	<5	1.40	<1
104B 889593	48B	3	<2	<5	<100	4.1	<10	2.2	2400	6	<11	1.10	<1
104B 889594	48C	14	41	1020	<540	454.0	<81	<1.6	34600	2	50	0.54	<4
104B 889595	48D	5	<2	<5	<100	3.4	<10	1.5	2900	10	20	2.30	<1
104B 889596	48E	<1	<2	<5	<100	4.4	<10	2.2	5300	13	<13	2.00	1
104B 889597	49	<1	<2	<5	<100	14.6	<10	<0.5	4500	18	18	2.60	<1
104B 889628	KQ-88-60A	<1	<2	<5	<100	1.3	<10	1.4	1900	25	48	5.00	<1
104B 889629	60B	7	<2	<5	<100	6.8	<10	2.1	3600	26	45	5.10	<1
104B 889630	60C	<1	<2	<5	<100	3.3	<10	1.1	1800	9	14	2.80	<1
104B 889631	60D	<1	<2	<5	<100	5.7	<10	2.1	1300	9	<5	3.00	<1
104B 889632	60E	<1	<2	<5	<100	3.6	<10	1.5	2000	10	13	3.30	<1
104B 889633	60F	<1	<2	<5	<100	4.2	<10	<0.5	1600	9	14	3.00	1
104B 889634	61	<1	<2	<5	<100	9.5	<10	1.7	1600	10	14	1.80	1
104B 889635	62A	17	<2	<5	<100	11.3	<10	4.8	2300	10	19	2.20	<1
104B 889636	62B	<1	<2	<5	<100	6.6	<10	3.4	1700	10	18	2.40	<1
104B 889637	62C	1	<2	<5	<100	2.8	<10	3.2	1600	12	19	2.30	<1
104B 889638	62D	25	<2	<5	<100	6.0	<10	6.2	1600	14	23	1.80	<1
104B 889639	-	<1	<2	<5	<100	<0.1	<10	<0.5	53	<2	<5	1.20	<1
104B 889640	62E	6	<2	<5	<100	67.4	<24	3.1	1800	11	<16	1.80	<1
104B 889641	-	<1	3	<5	<100	13.5	<10	1.6	3700	16	25	3.60	<1
104B 889642	KQ-88-63A	<1	2	<5	<100	3.1	<10	3.4	1000	13	31	2.50	<1
104B 889643	63B	2	5	14	<100	7.0	<10	3.3	3100	10	15	3.10	<1
104B 889644	63C	<1	<2	<5	<100	1.9	<10	2.2	2600	8	14	2.40	<1
104B 889645	64A	<1	<2	<5	<100	4.6	<10	2.9	3500	16	24	3.10	1
104B 889646	64B	<1	<2	<5	<100	2.1	<10	0.6	5600	19	26	3.60	2
104B 889647	64C	<1	<2	<5	<100	13.3	<10	1.6	3600	15	30	3.40	<1
104B 889648	66	2	<2	<5	<100	1.8	<10	2.2	3900	15	31	3.60	<1
104B 889649	67	26	<12	1290	<530	194.0	<86	2.8	2300	7	<49	1.50	<3
104B 889650	66A	<1	<2	<5	<100	2.6	<10	6.6	1500	6	10	2.40	<1
104B 889651	66B	<1	<2	<5	<100	1.7	<10	1.4	2500	7	12	2.00	1

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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
104B 889582	KP-88-45C	<0.5	<2	<0.2	3	0.8	6	<50	701	5.4	1.8	5.86
104B 889583	46A	<0.5	<2	<0.2	3	<0.5	33	<50	120	1.8	3.0	6.72
104B 889584	46B	1.3	<2	<0.2	<1	<0.5	24	<50	74	2.6	3.6	5.38
104B 889585	46C	<0.5	<2	<0.2	2	<0.5	35	<50	34	6.8	8.3	6.64
104B 889586	46D	1.4	2	<0.2	3	0.7	25	<50	77	2.9	3.5	6.23
104B 889587	46E	<0.5	<2	<0.2	3	0.7	7	<50	948	6.2	3.6	5.05
104B 889588	47A	1.5	<2	<0.2	<1	<0.5	14	<50	130	2.5	21.6	5.95
104B 889589	47B	<0.5	<2	<0.2	<1	<0.5	13	<50	561	5.3	4.1	6.49
104B 889590	47C	<0.5	3	<0.2	2	<0.5	6	<50	282	3.1	1.7	6.84
104B 889591	47D	<0.5	<2	<0.4	<3	<0.5	<27	<50	444	5.7	1.7	7.33
104B 889592	48A	<0.5	<2	<0.2	3	<0.5	13	<50	130	1.8	1.2	6.04
104B 889593	48B	<0.5	<2	<0.2	2	<0.5	8	<50	27	2.4	1.5	4.69
104B 889594	48C	<0.5	11	<0.7	<5	<0.5	<8	<140	180	<1.6	<1.2	6.23
104B 889595	48D	<0.5	<2	<0.2	2	0.5	8	<50	23	1.6	1.5	5.96
104B 889596	48E	<0.5	<2	<0.2	2	<0.5	16	<50	57	4.7	2.4	5.66
104B 889597	49	0.7	<2	<0.2	2	<0.5	<3	<50	9	4.4	2.5	7.15
104B 889628	60A	1.0	5	<0.2	7	0.5	<2	<50	<2	7.8	4.3	5.55
104B 889629	KP-88-60B	1.1	4	<0.2	8	0.9	2	<50	6	8.5	6.2	5.79
104B 889630	60C	0.6	3	<0.2	2	<0.5	<3	<50	<2	1.4	0.5	8.79
104B 889631	60D	0.6	3	0.3	1	<0.5	<3	<50	<2	1.2	0.8	7.23
104B 889632	60E	0.8	4	0.2	3	<0.5	<3	<50	<2	1.3	0.9	6.62
104B 889633	60F	0.6	2	<0.2	3	<0.5	<3	<50	<2	1.2	0.6	8.01
104B 889634	61	<0.5	<2	<0.2	3	0.6	3	<50	10	2.9	1.5	5.87
104B 889635	62A	0.6	<2	0.2	<1	<0.5	11	<50	140	1.9	1.1	6.02
104B 889636	62B	0.5	<2	0.3	2	<0.5	5	<50	26	1.2	0.6	5.54
104B 889637	62C	0.6	<2	0.2	2	<0.5	<3	<50	14	2.0	1.4	5.52
104B 889638	62D	<0.5	<2	<0.2	2	0.6	5	<50	59	2.9	1.4	4.59
104B 889639	-	<0.5	<2	<0.2	<1	<0.5	<4	<50	<2	<0.2	<0.2	9.88
104B 889640	62E	<0.5	<2	0.3	<1	0.7	7	<50	40	2.7	1.1	5.94
104B 889641	-	0.9	3	<0.2	2	<0.5	<3	<50	5	3.7	2.3	7.55
104B 889642	63A	0.8	3	<0.2	4	0.7	4	<50	<2	7.0	3.6	6.24
104B 889643	63B	0.8	3	<0.2	2	0.6	<3	<50	140	1.2	0.9	7.44
104B 889644	63C 64A	0.6	<2	<0.2	<1	<0.5	<3	<50	16	1.6	0.5	6.99
104B 889645	64A	<0.5	2	<0.2	2	0.6	<3	<50	7	2.7	1.4	5.69
104B 889646	64B	0.6	<2	<0.2	3	0.5	<3	<50	9	6.7	3.4	7.29
104B 889647	64C	0.6	<2	<0.2	4	0.6	4	<50	6	3.4	2.5	7.77
104B 889648	66	0.7	2	<0.2	3	0.6	3	<50	17	5.2	3.9	10.23
104B 889649	67	<1.0	13	<0.7	<5	<0.5	<11	<150	339	2.4	<1.3	9.04
104B 889650	66A	<0.5	<2	0.3	1	<0.5	<3	<50	6	1.3	0.3	9.29
104B 889651	66B	0.5	<2	<0.2	<1	<0.5	<3	<50	<2	1.3	0.7	9.92

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SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
1048 889652	KQ-88-67A*	1.80	21.1	160	3.9	17	34	150	25.0	<5	1.1	150	<200
1048 889653	67B*	2.35	28.6	86	5.7	15	<20	150	5.8	<5	<0.5	120	<200
1048 889654	67C*	2.35	48.6	45	10.0	38	<20	120	18.0	<5	1.3	120	<200
1048 889655	68A	3.78	19.0	<20	3.0	10	<20	110	1.8	<5	<0.5	82	<200
1048 889656	68B	2.78	34.1	<20	8.1	34	<20	120	3.5	<5	0.7	67	<200
1048 889657	69A	2.96	40.5	190	7.2	31	50	230	10.0	<5	3.4	50	<200
1048 889658	70A	2.55	16.0	110	4.3	15	35	140	108.0	<5	1.2	110	<200
1048 889659	—	0.33	129.0	750	7.1	58	70	170	<1.1	<5	<1.1	<5	<200
1048 889660	70B	1.90	14.0	<20	5.0	12	<20	140	37.0	<5	<0.5	140	<200
1048 889661	—	1.90	22.9	140	6.7	32	44	170	73.1	<5	1.3	150	<200
1048 889662	70C	3.24	18.0	96	6.6	35	41	170	7.0	<5	<0.5	53	<200
1048 889663	70D	0.31	25.0	180	7.7	21	36	130	3.6	<5	0.9	140	<200
1048 889664	70E	1.90	20.5	<20	3.5	13	<20	150	19.0	<5	<0.5	150	<200
1048 889665	70F	0.46	20.1	160	7.1	28	35	330	3.1	<5	1.3	150	<200
1048 889666	70G	1.00	25.2	200	7.5	36	40	120	47.0	<5	2.9	110	<200
1048 889667	KQ-88-70H	2.09	28.4	230	6.0	15	49	170	12.0	<5	0.9	96	<200
1048 889668	71A	1.90	23.3	160	7.2	34	44	140	68.4	<5	1.4	140	<200
1048 889669	71B	3.37	10.0	31	3.7	13	<20	170	6.5	<5	<0.5	80	<200
1048 889670	71C	1.40	13.0	62	3.3	14	24	170	5.0	<5	<1.1	150	250
1048 889671	71D	4.04	25.6	<20	4.5	8	<20	200	8.8	<5	<1.1	61	<200
1048 889672	71E	0.87	16.0	51	3.3	9	20	120	25.0	<5	1.6	150	<200
1048 889673	71F	0.32	124.0	730	6.9	58	88	190	<1.3	<5	<1.2	<5	<200

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SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
104B 889652	KQ-OB-67A* 43	<2	<5	<100	18.8	<10	1.6	3800	13	21	2.90	1	
104B 889653	67B* 14	<2	<5	<100	6.3	<10	1.2	2100	12	21	2.90	<1	
104B 889654	67C* 10	<2	<5	<100	5.8	<10	3.2	970	14	24	4.00	1	
104B 889655	68A 1	<2	<5	<100	0.9	<10	1.0	3400	12	21	1.70	<1	
104B 889656	68B <1	<2	<5	<100	2.9	<10	1.8	1400	14	21	3.70	1	
104B 889657	69A <1	<2	<5	<100	3.7	<10	0.6	2200	12	23	3.60	1	
104B 889658	70A <1	<2	<5	<100	14.6	<10	0.9	2800	13	11	3.20	2	
104B 889659	— <1	<2	<5	<100	<0.1	<10	<0.5	<50	<2	<5	1.10	<1	
104B 889660	70B <1	<2	<5	<100	5.4	<10	6.3	1600	18	37	4.30	<1	
104B 889661	— 6	<2	<5	<100	7.7	<10	1.8	3700	11	21	4.50	<1	
104B 889662	70C <1	<2	<5	<100	2.5	<10	<0.5	830	21	40	3.50	1	
104B 889663	70D 4	<2	<5	<100	2.0	<10	1.3	5180	16	21	3.00	1	
104B 889664	70E 3	<2	<5	<100	1.7	<10	3.9	4300	12	20	2.10	<1	
104B 889665	70F 7	12	<5	<100	2.4	<10	1.0	3700	64	73	3.90	<1	
104B 889666	70G <1	<2	<5	<100	19.1	<10	1.2	3600	40	53	4.00	<1	
104B 889667	70H <1	<2	<5	<100	4.5	<10	1.6	3300	17	23	3.50	1	
104B 889668	71A 7	<2	<5	<100	7.8	<10	2.0	3800	10	27	4.50	2	
104B 889669	71B <1	<2	<5	<100	4.8	<10	7.8	690	5	10	2.10	<1	
104B 889670	71C <1	<2	<5	<100	5.1	<10	2.3	3400	8	11	2.40	<1	
104B 889671	71D <1	<2	<5	<100	3.0	<10	1.8	3800	13	17	1.90	1	
104B 889672	71E 2	<2	<5	<100	3.0	<10	4.8	1900	15	26	3.20	<1	
104B 889673	71F <1	<2	<5	<100	<0.1	<10	<0.5	<50	<2	<5	1.10	<1	

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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
1048 889652	KQ-BB-67A*	0.6	2	<0.2	3	1.0	3	<50	44	3.2	2.3	9.25
1048 889653	67B*	<0.5	<2	<0.2	2	<0.5	3	<50	13	2.2	1.5	8.20
1048 889654	67C*	0.8	2	0.3	2	0.8	5	<50	30	1.4	0.9	10.65
1048 889655	68A	<0.5	<2	<0.2	1	0.7	<2	<50	7	2.8	1.1	8.66
1048 889656	68B	0.8	3	0.2	2	0.8	3	<50	4	1.7	1.0	11.88
1048 889657	69A	0.6	2	<0.2	2	<0.5	<3	<50	<2	2.1	1.2	11.38
1048 889658	70A	0.6	2	<0.2	4	0.7	5	<50	61	3.6	2.1	9.08
1048 889659	-	<0.5	<2	<0.2	<1	<0.5	<4	<50	<2	<0.2	0.3	12.90
1048 889660	70B	0.9	3	0.2	3	0.5	<3	<50	16	3.7	1.8	6.92
1048 889661	-	0.8	<2	<0.2	3	0.6	4	<50	34	3.3	1.8	8.52
1048 889662	70C	0.9	<2	<0.2	4	0.8	<3	<50	5	7.4	3.7	8.52
1048 889663	70D	<0.5	2	<0.2	2	0.6	3	<50	22	3.0	2.5	8.81
1048 889664	70E	<0.5	<2	<0.2	1	0.7	<3	<50	21	3.2	1.4	8.19
1048 889665	70F	0.5	<2	<0.2	3	<0.5	<3	<50	926	3.5	2.7	9.29
1048 889666	70G	0.7	<2	<0.2	3	<0.5	<4	<50	36	3.4	2.5	8.72
1048 889667	70H	0.7	2	<0.2	3	<0.5	<3	<50	11	3.0	2.6	8.06
1048 889668	71A	1.2	2	<0.2	3	0.7	<3	<50	31	3.4	1.9	8.47
1048 889669	71B	<0.5	2	<0.2	4	<0.5	<3	<50	6	7.2	4.0	6.82
1048 889670	71C	<0.5	<2	<0.2	2	<0.5	3	<50	6	3.0	1.9	8.02
1048 889671	71D	<0.5	2	<0.2	2	0.5	<3	<50	15	2.6	1.1	8.60
1048 889672	71E	0.8	2	<0.2	2	<0.5	3	<50	5	3.2	1.8	8.34
1048 889673	KQ-BB-71F	<0.5	<2	<0.2	<1	<0.5	<5	<50	<2	<0.2	0.3	13.90

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STANDARD NAME	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
BCC SOIL PULP STD 88		1.30	11.0	99	3.1	10	<20	150	10.0	<5	10.0	65	<200
		1.30	12.0	98	3.7	12	24	150	10.0	<5	9.4	60	<200
		1.30	11.0	97	3.3	10	23	250	10.0	<5	10.0	63	<200

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		1.300	11.33	98.0	3.37	10.7	19.0	183.3	10.00	2.5	9.80	62.7	100.0
Standard Deviation		0.0000	0.577	1.00	0.306	1.15	7.81	57.74	0.000	0.00	0.346	2.52	0.00
Lowest Value		1.30	11.0	97	3.1	10	20	150	10.0	5	9.4	60	200
Highest Value		1.30	12.0	99	3.7	12	24	250	10.0	5	10.0	65	200

BCC ROCK PULP STD 86		1.10	11.0	280	4.6	23	76	1100	121.0	<5	3.5	55	<200
		1.00	11.0	280	4.6	25	79	1100	115.0	<5	3.0	47	<200
		1.10	12.0	310	4.9	25	59	1200	124.0	<5	2.8	55	<200

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		1.067	11.33	290.0	4.70	24.3	71.3	1133.3	120.00	2.5	3.10	52.3	100.0
Standard Deviation		0.0577	0.577	17.32	0.173	1.15	10.79	57.74	4.582	0.00	0.361	4.62	0.00
Lowest Value		1.00	11.0	280	4.6	23	59	1100	115.0	5	2.8	47	200
Highest Value		1.10	12.0	310	4.9	25	79	1200	124.0	5	3.5	55	200



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STANDARD NAME	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
BCC SOIL PULP STD 88		2	<2	<5	<100	1.6	<10	3.6	440	24	52	4.10	1
		<1	<2	<5	<100	1.5	<10	3.0	390	26	52	4.10	<1
		<1	<2	<5	<100	1.6	<10	2.5	410	23	41	3.90	<1

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		0.9	1.0	2.5	50.0	1.57	5.0	3.03	413.3	24.3	48.3	4.033	0.7
Standard Deviation		0.64	0.00	0.00	0.00	0.058	0.00	0.551	25.17	1.53	6.35	0.1155	0.40
Lowest Value		1	2	5	100	1.5	10	2.5	390	23	41	3.90	1
Highest Value		2	2	5	100	1.6	10	3.6	440	26	52	4.10	1

BCC ROCK PULP STD 86		19	<2	<5	<100	1.4	<10	2.2	640	25	46	6.00	2
		22	<2	<5	<100	1.3	<10	1.4	650	26	52	6.00	<1
		19	<2	<5	<100	1.3	<10	1.9	600	27	52	6.10	<1

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		20.0	1.0	2.5	50.0	1.33	5.0	1.83	630.0	26.0	50.0	6.033	0.9
Standard Deviation		1.73	0.00	0.00	0.00	0.058	0.00	0.404	26.46	1.00	3.46	0.0578	0.75
Lowest Value		19	2	5	100	1.3	10	1.4	600	25	46	6.00	1
Highest Value		22	2	5	100	1.4	10	2.2	650	27	52	6.10	2

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STANDARD NAME	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
BCC SOIL PULP STD 88		0.7	<2	<0.2	9	1.1	2	<50	<2	8.1	2.4	8.33
		0.7	2	<0.2	8	1.0	<2	<50	<2	8.3	2.3	8.14
		0.6	<2	<0.2	9	1.1	<3	<50	6	8.3	2.6	4.88

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3
Mean Value		0.67	1.4	0.10	8.6	1.07	1.6	25.0	2.5	8.23	2.43	7.117
Standard Deviation		0.025	0.69	0.000	0.36	0.058	0.53	0.00	2.60	0.115	0.153	1.9393
Lowest Value		0.6	2	0.2	8	1.0	2	50	2	8.1	2.3	4.88
Highest Value		0.7	2	0.2	9	1.1	3	50	6	8.3	2.6	8.33

BCC ROCK PULP STD 86		1.0	4	<0.2	4	0.6	<2	<50	65	6.7	3.6	7.85
		1.1	4	<0.2	4	0.8	<3	<50	50	6.5	3.6	7.00
		1.2	4	0.3	5	0.8	<4	<50	92	6.5	4.0	4.60

Number of Analyses		3	3	3	3	3	3	3	3	3	3	3
Mean Value		1.10	3.5	0.16	4.4	0.71	1.6	25.0	69.0	6.57	3.73	6.483
Standard Deviation		0.100	0.00	0.104	0.61	0.064	0.43	0.00	21.28	0.115	0.231	1.6855
Lowest Value		1.0	4	0.2	4	0.6	2	50	50	6.5	3.6	4.60
Highest Value		1.2	4	0.3	5	0.8	4	50	92	6.7	4.0	7.85