



Bureau Veritas Minerals Pty Ltd  
MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

35 Cormack Road  
Wingfield SA 5013

Telephone (08) 8416 5200  
Facsimile (08) 8234 0355

Reference: **aa066729**  
Date Finished: 24/07/2024  
Order:  
Project: Mt Doreen  
Date Received: 26/06/2024  
Type of Sample: Core  
Samples Analysed: 95

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**FINAL ANALYSIS REPORT**  
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**Analysis of Mineral Samples**

for

**Litchfield Minerals Ltd**

Suite 606, 10 Market Street Brisbane QLD 4000

**Attention:** Mr Matthew Pustahya

Bureau Veritas Minerals Pty Ltd has carried out the preparation and analysis of samples to the best of its ability and with due regard to the importance of all samples submitted. However, in the event of default by Bureau Veritas Minerals Pty Ltd in providing services as defined by contracts, Bureau Veritas Minerals Pty Ltd shall have no other liability for any negligent act, default, omission or breach of such contract. The liability of our company is limited by our General Terms and Conditions of Service. At all times, the results of analysis must be interpreted as pertaining to the samples as they were received at the laboratory. Where applicable, information describing the submitted sample/s has been supplied by the client or associated third party.

**Authorised By:**

Vaughn Noble  
Senior Chemist

Fabian Gregus  
Chemist

Michael Grieger  
Chemist

Jenet Hwende  
Laboratory Manager



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METHOD CODE	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Determinants	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
BOM15701	<0.2	7.55%	3	1030	3.5	0.4	5300	<0.5
BOM15702	<0.2	5.50%	<1	426	2.0	0.4	1.20%	<0.5
BOM15703	<0.2	6.71%	2	408	2.0	4.7	9600	<0.5
BOM15704	<0.2	6.26%	<1	422	2.5	0.3	8800	<0.5
BOM15705	<0.2	10.1%	<1	790	3.5	1.6	3000	<0.5
BOM15706	<0.2	10.4%	2	824	4.5	0.7	4600	<0.5
BOM15707	<0.2	10.3%	2	666	4.5	1.1	6200	<0.5
BOM15708	<0.2	9.65%	<1	722	4.0	0.3	4000	<0.5
BOM15709	<0.2	6.38%	2	318	2.5	1.3	6200	<0.5
BOM15710	<0.2	5.45%	2	310	2.0	0.3	5300	<0.5
BOM15711	<0.2	6.97%	<1	502	2.5	0.4	6900	<0.5
BOM15712	<0.2	7.55%	<1	578	3.0	0.5	4300	<0.5
BOM15713	<0.2	6.46%	<1	438	2.0	1.4	5400	<0.5
BOM15714	<0.2	11.8%	2	880	3.5	0.4	1700	<0.5
BOM15715	<0.2	8.47%	2	610	3.0	0.6	3100	<0.5
BOM15716	<0.2	9.56%	2	710	3.0	0.7	4500	<0.5
BOM15717	<0.2	10.5%	2	818	4.0	0.5	5300	<0.5
BOM15718	<0.2	9.65%	<1	776	4.0	0.6	5800	<0.5
BOM15719	<0.2	9.74%	2	788	3.5	0.6	4300	<0.5
BOM15720	<0.2	9.97%	2	862	3.0	0.6	4100	<0.5
BOM15721	<0.2	8.03%	<1	592	3.5	1.1	3800	<0.5
BOM15722	<0.2	5.85%	<1	364	2.0	0.2	4200	<0.5
BOM15723	<0.2	6.94%	2	494	2.0	0.3	5200	<0.5
BOM15724	<0.2	7.46%	2	508	2.5	0.7	2400	<0.5
BOM15725	18.4	4.89%	392	342	1.5	4.0	1.56%	25.5
BOM15726	<0.2	9.02%	2	754	3.0	0.6	2100	<0.5
BOM15727	<0.2	10.6%	2	838	2.5	0.4	1900	<0.5
BOM15728	<0.2	9.65%	2	752	2.0	0.7	2100	<0.5
BOM15729	<0.2	9.97%	<1	730	2.5	0.3	2100	<0.5
BOM15730	<0.2	9.02%	2	670	3.0	2.0	2100	<0.5
BOM15731	<0.2	6.61%	<1	500	2.0	0.7	3900	<0.5
BOM15732	<0.2	6.69%	<1	490	2.5	0.4	6000	<0.5
BOM15733	<0.2	7.95%	2	626	3.0	0.4	4700	<0.5
BOM15734	<0.2	9.56%	2	828	3.0	0.5	2500	<0.5
BOM15735	<0.2	1100	8	6	<0.5	<0.1	200	<0.5
BOM15736	<0.2	7.45%	2	530	3.0	0.4	7600	<0.5
BOM15737	<0.2	7.89%	2	580	2.5	0.9	9800	<0.5
BOM15738	<0.2	11.6%	8	986	3.5	0.6	5700	<0.5
BOM15739	<0.2	9.47%	3	808	3.5	0.2	3600	<0.5
BOM15740	<0.2	5.85%	2	368	2.5	0.2	4400	<0.5
BOM15741	<0.2	6.39%	3	750	4.0	0.7	3300	<0.5



Reference: aa066729 Order Number: Page 2 of 25

METHOD CODE	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Determinants	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
BOM15742	<0.2	9.47%	31	862	3.5	1.1	1.21%	<0.5
BOM15743	<0.2	8.33%	2	568	3.5	0.5	5600	<0.5
BOM15744	<0.2	6.90%	<1	442	2.5	0.3	4200	<0.5
BOM15745	<0.2	8.92%	<1	708	3.5	0.4	2300	<0.5
BOM15746	<0.2	9.63%	<1	824	3.0	0.3	3500	<0.5
BOM15747	<0.2	5.31%	<1	312	2.0	0.4	5800	<0.5
BOM15748	<0.2	8.01%	<1	576	3.0	0.9	2300	<0.5
BOM15749	<0.2	8.33%	2	540	11.0	0.7	3600	<0.5
BOM15750	18.4	4.89%	386	354	1.5	4.0	1.53%	25.5
BOM15751	<0.2	8.92%	2	746	3.5	0.6	2600	<0.5
BOM15752	<0.2	6.89%	<1	358	3.5	0.3	3600	<0.5
BOM15753	<0.2	10.2%	<1	626	6.5	0.6	2100	<0.5
BOM15754	<0.2	10.5%	<1	766	5.0	1.8	3000	<0.5
BOM15755	<0.2	10.6%	2	908	4.5	0.9	2700	<0.5
BOM15756	<0.2	10.6%	2	876	5.0	0.8	2300	<0.5
BOM15757	<0.2	7.76%	2	680	3.5	0.9	1600	<0.5
BOM15758	<0.2	9.86%	2	866	3.5	1.0	2100	<0.5
BOM15759	<0.2	9.10%	2	752	3.5	0.7	2400	<0.5
BOM15760	<0.2	8.73%	<1	684	3.5	0.7	6300	<0.5
BOM15761	<0.2	8.83%	<1	762	3.5	2.4	3500	<0.5
BOM15762	<0.2	10.8%	2	926	4.0	0.9	2900	<0.5
BOM15763	<0.2	10.2%	<1	884	3.5	1.6	1600	<0.5
BOM15764	<0.2	5.11%	<1	346	2.5	0.3	5300	<0.5
BOM15765	<0.2	4.63%	2	364	2.0	0.3	7700	<0.5
BOM15766	<0.2	6.44%	2	570	2.5	<0.1	6000	<0.5
BOM15767	<0.2	7.77%	<1	714	3.0	0.5	3900	<0.5
BOM15768	<0.2	5.66%	2	416	2.5	0.7	8800	<0.5
BOM15769	<0.2	5.30%	2	416	2.0	<0.1	8100	<0.5
BOM15770	<0.2	4.76%	<1	352	2.0	<0.1	8200	<0.5
BOM15771	<0.2	5.26%	3	374	2.5	0.3	8900	<0.5
BOM15772	<0.2	7.78%	<1	666	2.5	0.3	2300	<0.5
BOM15773	<0.2	7.06%	<1	552	2.5	0.4	2700	<0.5
BOM15774	<0.2	9.10%	2	750	2.5	0.2	2000	<0.5
BOM15775	<0.2	1100	<1	6	<0.5	<0.1	200	<0.5
BOM15776	<0.2	3.38%	2	196	2.0	0.2	5700	<0.5
BOM15777	0.6	8.21%	<1	620	3.5	0.4	5500	<0.5
BOM15778	<0.2	8.71%	2	652	5.5	0.4	3600	<0.5
BOM15779	<0.2	9.81%	2	822	4.5	1.1	2100	<0.5
BOM15780	<0.2	5.66%	<1	458	2.0	0.2	9100	<0.5
BOM15985	0.6	5.45%	9	588	2.0	7.1	500	<0.5
BOM15986	0.6	7.01%	3	812	3.0	0.4	2400	<0.5



Reference: aa066729 Order Number: Page 3 of 25

METHOD CODE	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Determinants	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
BOM15987	0.4	4.53%	4	438	1.0	0.5	4400	<0.5
BOM15988	<0.2	3.92%	<1	540	2.0	<0.1	3600	<0.5
BOM15989	<0.2	6.25%	3	714	2.0	<0.1	2000	<0.5
BOM15990	0.6	4.83%	5	484	2.0	6.2	700	<0.5
BOM15991	1.0	10.4%	4	1090	5.0	1.2	1200	<0.5
BOM15992	1.0	7.73%	5	786	3.0	1.4	800	<0.5
BOM15993	2.4	9.12%	11	974	4.0	2.6	1500	1.0
BOM15994	1.2	8.96%	4	930	3.0	3.3	1400	<0.5
BOM15995	0.4	6.76%	15	730	2.0	1.9	700	<0.5
BOM15996	0.2	9.34%	3	1380	5.5	0.3	4400	<0.5
BOM15997	<0.2	8.91%	2	1210	4.0	0.2	2800	<0.5
BOM15998	0.2	8.99%	2	1140	3.0	0.2	3200	<0.5
BOM15999	<0.2	8.23%	4	892	3.0	0.2	4800	<0.5

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Reference: aa066729 Order Number: Page 4 of 25

METHOD CODE	MA102	MA101	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	2	100	0.2	0.2	0.05
BOM15701	14	60	14.5	44	3.61%	23.0	3.4	0.10
BOM15702	8	30	7.2	38	2.19%	15.4	2.6	<0.05
BOM15703	8	40	3.1	44	2.62%	16.4	4.6	<0.05
BOM15704	11	40	3.7	32	2.90%	17.2	3.2	<0.05
BOM15705	16	60	7.8	68	4.45%	27.6	2.2	0.10
BOM15706	17	60	12.8	38	4.30%	29.6	2.4	0.10
BOM15707	16	60	8.7	42	4.40%	27.4	4.2	0.10
BOM15708	16	60	11.0	26	4.28%	26.8	3.0	0.10
BOM15709	10	40	4.7	58	2.89%	16.0	3.0	<0.05
BOM15710	7	60	2.6	24	2.40%	13.4	3.6	<0.05
BOM15711	11	80	4.3	26	3.30%	20.2	2.6	<0.05
BOM15712	11	80	4.2	16	3.27%	21.6	2.8	<0.05
BOM15713	11	80	5.4	50	3.07%	17.6	3.0	<0.05
BOM15714	18	90	6.5	26	5.25%	33.8	3.6	0.10
BOM15715	14	80	4.3	60	4.00%	25.2	3.2	0.10
BOM15716	14	60	7.2	30	4.32%	26.8	3.8	0.10
BOM15717	17	60	6.3	58	4.90%	29.6	3.6	0.10
BOM15718	16	80	9.6	30	4.43%	27.4	3.4	0.10
BOM15719	16	80	7.7	42	4.65%	27.0	3.0	0.10
BOM15720	17	90	5.7	44	4.70%	29.6	2.4	0.10
BOM15721	12	80	5.3	44	3.95%	22.4	1.6	<0.05
BOM15722	8	60	2.7	20	2.80%	15.8	1.6	<0.05
BOM15723	11	60	3.4	24	3.32%	19.4	3.2	<0.05
BOM15724	11	60	3.3	24	3.45%	20.8	2.6	<0.05
BOM15725	7	20	4.8	524	5.93%	14.2	2.8	0.30
BOM15726	14	60	5.3	24	4.11%	26.4	2.4	0.10
BOM15727	18	80	5.5	36	4.92%	31.4	2.0	0.10
BOM15728	16	80	3.7	50	4.56%	28.6	2.2	0.10
BOM15729	17	80	3.8	24	4.56%	29.2	2.6	0.10
BOM15730	14	80	4.3	114	4.35%	26.2	2.2	0.10
BOM15731	11	60	3.6	40	3.00%	18.8	3.2	<0.05
BOM15732	11	40	4.9	14	3.18%	18.4	3.4	<0.05
BOM15733	12	60	5.5	28	3.84%	23.6	3.0	<0.05
BOM15734	14	60	4.7	26	4.16%	27.6	2.8	0.10
BOM15735	<1	<10	<0.1	10	4000	0.4	<0.2	<0.05
BOM15736	11	60	3.6	44	3.43%	21.6	3.4	<0.05
BOM15737	11	80	3.5	78	4.17%	22.4	2.8	<0.05
BOM15738	19	90	4.3	42	7.03%	33.4	2.6	0.10
BOM15739	13	80	3.4	8	4.28%	28.6	2.8	0.10
BOM15740	8	60	3.3	8	2.78%	15.8	3.2	<0.05
BOM15741	13	40	7.4	18	3.45%	20.0	2.8	<0.05



Reference: aa066729 Order Number: Page 5 of 25

METHOD CODE	MA102	MA101	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	2	100	0.2	0.2	0.05
BOM15742	16	60	10.8	62	4.27%	28.6	2.6	0.50
BOM15743	11	60	6.3	30	3.52%	26.0	2.6	0.10
BOM15744	11	60	5.1	34	3.37%	19.6	2.6	<0.05
BOM15745	15	60	9.6	24	4.26%	26.8	2.6	0.10
BOM15746	15	80	9.2	16	4.30%	28.8	2.8	0.10
BOM15747	9	80	3.2	28	2.66%	14.6	3.4	<0.05
BOM15748	10	80	4.7	16	3.12%	28.4	2.6	0.10
BOM15749	10	80	5.5	22	3.56%	24.8	3.0	<0.05
BOM15750	7	20	4.7	504	5.84%	13.6	2.8	0.30
BOM15751	12	60	6.1	30	3.80%	25.8	2.8	0.10
BOM15752	8	40	4.4	16	2.54%	20.6	2.6	<0.05
BOM15753	10	60	8.5	16	3.44%	35.0	3.4	0.10
BOM15754	12	80	9.6	44	4.13%	31.0	3.4	0.15
BOM15755	16	80	11.9	50	4.70%	31.2	2.8	0.10
BOM15756	15	80	10.0	42	4.62%	29.8	2.8	0.10
BOM15757	11	60	10.8	32	3.46%	22.2	2.0	0.10
BOM15758	16	80	13.9	84	4.40%	28.2	2.8	0.10
BOM15759	15	60	13.3	34	4.25%	26.2	3.2	0.10
BOM15760	13	60	14.7	64	4.02%	24.0	3.2	0.10
BOM15761	12	60	11.3	78	3.88%	24.0	2.6	0.10
BOM15762	17	80	15.6	60	5.19%	30.8	3.2	0.10
BOM15763	16	80	13.1	50	4.72%	28.8	2.6	0.10
BOM15764	8	40	5.8	24	2.62%	13.2	3.2	<0.05
BOM15765	6	40	4.3	46	2.37%	12.2	3.2	<0.05
BOM15766	9	60	6.9	26	3.21%	18.0	3.6	<0.05
BOM15767	10	60	10.2	26	3.57%	21.6	2.8	<0.05
BOM15768	10	40	6.3	86	3.07%	15.4	3.2	<0.05
BOM15769	7	40	5.2	22	2.59%	13.6	3.2	<0.05
BOM15770	6	40	5.3	18	2.49%	12.4	3.0	<0.05
BOM15771	10	40	5.7	26	2.96%	14.4	2.8	<0.05
BOM15772	12	40	14.9	28	3.98%	22.8	2.6	<0.05
BOM15773	10	40	14.1	32	3.52%	20.6	1.6	<0.05
BOM15774	15	60	17.7	44	4.60%	26.0	2.6	0.10
BOM15775	<1	<10	0.2	10	4100	0.4	0.4	<0.05
BOM15776	6	60	4.7	64	2.38%	8.6	1.8	<0.05
BOM15777	13	80	14.6	100	4.07%	24.2	3.2	0.10
BOM15778	16	60	10.1	42	3.98%	25.0	3.2	0.10
BOM15779	13	60	15.0	36	3.89%	30.0	2.6	0.10
BOM15780	9	40	7.9	16	2.99%	16.0	3.6	<0.05
BOM15985	5	30	3.0	106	2.58%	15.4	2.8	<0.05
BOM15986	9	30	1.6	78	3.18%	22.0	3.0	<0.05



Reference: aa066729 Order Number: Page 6 of 25

METHOD CODE	MA102	MA101	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	2	100	0.2	0.2	0.05
BOM15987	4	20	1.6	44	1.68%	10.2	1.4	<0.05
BOM15988	5	20	1.4	28	1.75%	10.4	2.8	<0.05
BOM15989	9	40	1.4	28	3.09%	20.0	3.4	<0.05
BOM15990	6	30	3.1	328	3.02%	13.6	2.6	<0.05
BOM15991	67	80	9.4	1730	5.34%	32.6	3.0	<0.05
BOM15992	29	40	5.1	982	3.89%	24.0	2.2	<0.05
BOM15993	21	60	2.6	1170	5.25%	25.0	2.4	<0.05
BOM15994	17	60	5.0	534	4.96%	26.0	2.4	0.10
BOM15995	11	30	6.4	154	3.26%	19.6	2.4	<0.05
BOM15996	12	40	9.4	204	3.50%	25.8	2.6	0.10
BOM15997	16	40	11.8	328	3.66%	24.8	2.6	<0.05
BOM15998	15	40	14.5	188	4.07%	25.0	2.6	0.10
BOM15999	13	60	14.1	222	4.12%	22.6	3.0	0.10

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Reference: aa066729 Order Number: Page 7 of 25

METHOD CODE	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Determinants	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
BOM15701	2.66%	40	9500	610	1.0	9200	15.0	40
BOM15702	1.45%	20	6400	676	2.0	1.24%	9.0	24
BOM15703	2.33%	20	8300	492	2.0	2.07%	8.5	28
BOM15704	2.09%	20	8600	354	2.5	1.11%	9.0	34
BOM15705	4.14%	30	1.24%	546	1.5	6200	13.0	42
BOM15706	4.21%	40	1.18%	516	2.0	7100	13.5	42
BOM15707	3.41%	40	1.36%	660	4.0	1.81%	14.5	52
BOM15708	3.60%	40	1.28%	586	2.0	1.04%	13.5	44
BOM15709	1.81%	30	9100	506	4.0	1.71%	8.5	40
BOM15710	1.43%	20	7400	354	4.5	1.58%	7.5	34
BOM15711	2.38%	20	9000	546	3.5	9200	9.0	36
BOM15712	2.53%	30	9300	410	2.5	1.21%	9.5	36
BOM15713	2.24%	20	7900	422	3.5	9400	8.5	34
BOM15714	4.59%	40	1.74%	502	2.0	6700	15.5	50
BOM15715	2.99%	30	1.29%	424	2.0	9500	12.5	44
BOM15716	3.46%	40	1.40%	486	2.0	1.00%	13.5	44
BOM15717	3.72%	40	1.34%	596	2.5	1.01%	14.5	48
BOM15718	3.56%	40	1.16%	594	2.0	1.08%	13.5	42
BOM15719	3.58%	30	1.18%	542	2.0	8400	12.5	44
BOM15720	3.87%	30	1.15%	480	1.5	5600	13.0	42
BOM15721	2.95%	30	1.14%	494	2.0	8400	7.5	36
BOM15722	1.84%	20	8700	436	3.0	1.30%	7.0	28
BOM15723	2.23%	20	9500	544	3.5	1.31%	9.5	36
BOM15724	2.38%	20	9800	432	3.5	1.17%	10.0	34
BOM15725	1.71%	20	8200	3.54%	12.0	7300	7.0	34
BOM15726	3.28%	30	1.14%	492	2.0	7200	12.5	36
BOM15727	3.97%	30	1.28%	538	1.5	7400	14.0	44
BOM15728	3.62%	30	1.34%	512	2.0	8300	12.5	42
BOM15729	3.87%	30	1.44%	504	1.5	1.37%	12.5	40
BOM15730	3.19%	30	1.14%	468	2.5	8100	10.0	36
BOM15731	2.19%	20	8400	398	3.5	1.08%	9.0	28
BOM15732	2.06%	30	8400	452	3.5	1.46%	9.0	32
BOM15733	2.87%	30	9100	500	3.0	9600	12.0	34
BOM15734	3.85%	30	1.12%	498	2.0	6800	13.0	36
BOM15735	200	20	<100	108	1.0	400	0.5	6
BOM15736	2.53%	20	8100	550	4.5	1.05%	10.0	34
BOM15737	2.92%	20	8100	766	4.5	1.10%	9.5	32
BOM15738	4.81%	40	1.42%	740	2.0	1.15%	14.5	44
BOM15739	3.71%	30	1.00%	476	2.0	5800	12.5	36
BOM15740	1.79%	20	7100	320	3.5	1.18%	8.0	26
BOM15741	2.36%	30	7600	462	1.5	2800	10.0	36





Reference: aa066729 Order Number: Page 8 of 25

METHOD CODE	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Determinants	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
BOM15742	3.36%	40	1.25%	484	1.0	7000	13.5	40
BOM15743	2.57%	30	1.29%	448	1.5	1.21%	12.5	36
BOM15744	2.03%	30	9800	436	2.5	1.15%	9.5	36
BOM15745	3.28%	40	1.25%	414	2.0	5500	14.5	36
BOM15746	3.63%	40	1.11%	406	1.5	8200	14.5	36
BOM15747	1.36%	20	6300	320	5.5	1.22%	8.0	34
BOM15748	2.76%	30	1.32%	302	2.5	7100	12.0	34
BOM15749	2.53%	30	1.23%	304	3.0	1.20%	12.0	36
BOM15750	1.72%	20	8000	3.30%	11.5	7200	7.5	34
BOM15751	3.20%	30	1.19%	292	1.5	8400	13.0	34
BOM15752	1.92%	30	1.05%	218	3.0	1.62%	11.5	30
BOM15753	3.75%	40	1.62%	314	6.0	1.09%	14.0	36
BOM15754	3.97%	40	1.32%	370	3.0	1.09%	15.5	38
BOM15755	4.51%	40	1.20%	444	2.0	7200	14.5	38
BOM15756	4.29%	40	1.19%	528	1.5	6000	14.5	36
BOM15757	3.46%	40	8700	372	2.0	4400	11.0	28
BOM15758	4.32%	50	1.11%	486	2.0	5300	13.5	36
BOM15759	3.78%	50	1.07%	496	2.0	6000	13.5	34
BOM15760	3.43%	40	9800	618	2.5	8200	13.0	34
BOM15761	3.59%	40	9300	510	2.5	6000	12.5	32
BOM15762	4.31%	50	1.35%	582	2.0	7200	15.5	42
BOM15763	4.36%	50	1.26%	552	2.0	4900	14.0	38
BOM15764	1.39%	20	5700	358	5.0	1.11%	8.5	28
BOM15765	1.31%	20	4600	404	5.0	1.01%	7.5	24
BOM15766	2.28%	30	6700	456	5.0	9100	10.0	30
BOM15767	3.21%	40	8600	464	3.0	7100	10.0	32
BOM15768	1.96%	30	6400	566	4.5	7200	8.5	26
BOM15769	1.51%	20	4900	400	4.5	1.29%	8.0	22
BOM15770	1.20%	20	4400	398	5.0	1.34%	7.5	24
BOM15771	1.45%	20	5000	408	6.0	1.17%	8.0	32
BOM15772	3.34%	50	9500	388	2.0	5100	12.0	30
BOM15773	2.97%	50	8300	334	2.0	6400	9.0	28
BOM15774	4.07%	50	1.07%	422	2.0	5300	11.5	34
BOM15775	200	20	<100	96	1.0	400	0.5	6
BOM15776	1.08%	20	3600	332	6.5	7200	5.5	22
BOM15777	3.16%	50	9900	548	3.5	1.03%	14.0	36
BOM15778	3.21%	50	1.24%	408	5.5	1.11%	12.5	34
BOM15779	4.11%	50	1.32%	376	2.0	6000	13.5	36
BOM15780	1.56%	30	6000	448	4.0	1.31%	9.0	22
BOM15985	2.36%	20	3300	282	1.0	1800	8.0	14
BOM15986	2.68%	20	8300	350	1.0	8000	9.5	26



Reference: aa066729 Order Number: Page 9 of 25

METHOD CODE	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Determinants	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
BOM15987	2.31%	<10	3000	196	1.5	1.15%	5.0	12
BOM15988	1.61%	<10	3800	264	1.0	9100	6.5	12
BOM15989	2.50%	10	8200	414	1.0	7400	9.0	24
BOM15990	2.08%	20	2700	402	1.0	1900	7.0	12
BOM15991	4.26%	40	1.24%	1330	1.0	3300	13.5	52
BOM15992	3.16%	20	8100	840	1.0	3700	8.0	36
BOM15993	3.25%	30	1.30%	874	5.5	7600	12.0	44
BOM15994	3.59%	30	1.01%	1130	1.0	6800	12.0	32
BOM15995	3.05%	30	4800	496	1.5	2200	9.0	20
BOM15996	3.81%	40	9300	524	1.0	6400	11.0	38
BOM15997	3.74%	30	9000	604	1.0	7800	12.0	36
BOM15998	4.10%	40	1.01%	634	1.5	8000	14.5	40
BOM15999	3.53%	40	9700	574	1.5	9100	13.5	38

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Reference: aa066729 Order Number: Page 10 of 25

METHOD CODE	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Determinants	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
BOM15701	450	31	219	<0.1	150	<0.1	11	<5
BOM15702	600	23	130	<0.1	50	<0.1	7	<5
BOM15703	600	13	146	<0.1	50	<0.1	8	<5
BOM15704	500	19	148	<0.1	50	<0.1	9	<5
BOM15705	450	37	257	<0.1	50	<0.1	15	<5
BOM15706	500	41	268	<0.1	50	<0.1	16	<5
BOM15707	700	32	238	<0.1	100	<0.1	14	<5
BOM15708	550	20	229	<0.1	50	<0.1	15	<5
BOM15709	450	20	126	<0.1	150	<0.1	8	<5
BOM15710	400	22	97.6	<0.1	200	<0.1	7	<5
BOM15711	400	13	156	<0.1	150	0.2	10	<5
BOM15712	450	16	166	<0.1	50	<0.1	11	<5
BOM15713	400	16	148	<0.1	200	<0.1	9	<5
BOM15714	650	17	279	<0.1	100	<0.1	18	<5
BOM15715	550	15	189	<0.1	150	<0.1	13	<5
BOM15716	600	19	221	<0.1	100	<0.1	15	<5
BOM15717	650	24	231	<0.1	150	<0.1	16	<5
BOM15718	600	26	244	<0.1	50	<0.1	15	<5
BOM15719	550	24	239	<0.1	100	<0.1	15	<5
BOM15720	500	19	239	<0.1	100	<0.1	16	<5
BOM15721	450	15	210	<0.1	150	<0.1	12	<5
BOM15722	400	11	135	<0.1	150	<0.1	8	<5
BOM15723	450	15	164	<0.1	150	<0.1	10	<5
BOM15724	500	17	162	<0.1	100	<0.1	11	<5
BOM15725	400	3970	97.6	<0.1	5.29%	49.8	7	<5
BOM15726	500	31	219	<0.1	150	0.6	13	<5
BOM15727	500	36	259	<0.1	50	0.2	17	<5
BOM15728	500	30	224	<0.1	100	<0.1	16	<5
BOM15729	550	28	245	<0.1	100	<0.1	14	<5
BOM15730	450	24	212	<0.1	150	0.2	14	<5
BOM15731	400	17	161	<0.1	50	<0.1	9	<5
BOM15732	450	24	160	<0.1	100	<0.1	9	<5
BOM15733	450	22	199	<0.1	50	<0.1	12	<5
BOM15734	500	22	228	<0.1	100	<0.1	14	<5
BOM15735	<50	<1	0.8	<0.1	50	0.3	<1	<5
BOM15736	500	29	176	<0.1	100	<0.1	10	<5
BOM15737	450	30	208	<0.1	150	<0.1	12	<5
BOM15738	400	28	297	<0.1	100	<0.1	18	<5
BOM15739	500	18	224	<0.1	50	0.2	15	<5
BOM15740	400	23	119	<0.1	50	<0.1	8	<5
BOM15741	300	15	181	<0.1	100	<0.1	9	<5



Reference: aa066729 Order Number: Page 11 of 25

METHOD CODE	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Determinants	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
BOM15742	400	21	199	<0.1	250	<0.1	15	<5
BOM15743	550	17	145	<0.1	<50	<0.1	12	<5
BOM15744	400	14	118	<0.1	<50	<0.1	10	<5
BOM15745	500	14	202	<0.1	50	<0.1	14	<5
BOM15746	450	17	221	<0.1	50	<0.1	15	<5
BOM15747	400	16	90.4	<0.1	50	<0.1	7	<5
BOM15748	400	12	163	<0.1	50	<0.1	13	<5
BOM15749	500	17	154	<0.1	50	<0.1	13	<5
BOM15750	400	3970	96.6	<0.1	5.01%	46.5	7	<5
BOM15751	450	17	194	<0.1	100	0.2	14	<5
BOM15752	450	16	129	<0.1	50	<0.1	9	<5
BOM15753	550	17	252	<0.1	50	<0.1	17	<5
BOM15754	600	18	271	<0.1	100	<0.1	17	<5
BOM15755	550	17	289	<0.1	100	<0.1	16	<5
BOM15756	550	17	270	<0.1	100	<0.1	16	<5
BOM15757	400	14	236	<0.1	50	<0.1	12	<5
BOM15758	500	20	310	<0.1	150	<0.1	15	<5
BOM15759	500	21	279	<0.1	100	<0.1	14	<5
BOM15760	550	23	252	<0.1	150	<0.1	13	<5
BOM15761	650	35	233	<0.1	300	<0.1	14	<5
BOM15762	600	28	280	<0.1	100	<0.1	17	<5
BOM15763	550	21	281	<0.1	100	<0.1	16	<5
BOM15764	400	25	118	<0.1	50	<0.1	6	<5
BOM15765	450	36	108	<0.1	200	0.2	6	<5
BOM15766	450	29	171	<0.1	150	<0.1	9	<5
BOM15767	450	22	228	<0.1	100	0.2	11	<5
BOM15768	450	25	145	<0.1	250	0.2	7	<5
BOM15769	400	23	114	<0.1	50	<0.1	7	<5
BOM15770	400	24	99.4	<0.1	100	<0.1	6	<5
BOM15771	400	24	117	<0.1	50	0.2	7	<5
BOM15772	450	23	250	<0.1	100	<0.1	12	<5
BOM15773	400	21	224	<0.1	100	<0.1	10	<5
BOM15774	500	22	293	<0.1	100	<0.1	14	<5
BOM15775	<50	<1	1.4	<0.1	50	0.2	<1	<5
BOM15776	400	17	90.4	<0.1	150	0.2	4	<5
BOM15777	450	29	264	<0.1	200	<0.1	13	<5
BOM15778	550	25	246	<0.1	150	<0.1	14	<5
BOM15779	500	28	318	<0.1	100	<0.1	15	<5
BOM15780	400	28	148	<0.1	100	0.2	7	<5
BOM15985	300	754	141	<0.1	350	0.4	7	<5
BOM15986	350	115	150	<0.1	100	0.2	11	<5



Reference: aa066729 Order Number: Page 12 of 25

METHOD CODE	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Determinants	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
BOM15987	500	133	144	<0.1	100	<0.1	5	<5
BOM15988	250	57	98.4	<0.1	50	0.2	5	<5
BOM15989	400	35	138	<0.1	50	0.2	9	<5
BOM15990	350	677	126	<0.1	250	0.4	7	<5
BOM15991	150	1010	309	<0.1	150	0.3	19	<5
BOM15992	300	902	202	<0.1	150	0.3	13	<5
BOM15993	400	1160	168	<0.1	250	0.3	14	<5
BOM15994	400	965	212	<0.1	200	0.4	15	<5
BOM15995	200	410	203	<0.1	350	0.5	9	<5
BOM15996	400	101	271	<0.1	150	0.3	12	<5
BOM15997	400	113	277	<0.1	100	0.3	13	<5
BOM15998	450	100	309	<0.1	100	0.3	14	<5
BOM15999	450	85	294	<0.1	100	0.3	13	<5

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Reference: aa066729 Order Number: Page 13 of 25

METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Determinants	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
BOM15701	7.1	107	1.4	<0.2	19.8	3200	1.2	2.7
BOM15702	6.4	98.5	2.0	<0.2	16.4	2200	0.7	2.6
BOM15703	5.1	71.5	1.1	<0.2	30.2	2200	0.8	2.9
BOM15704	4.4	71.0	1.0	<0.2	21.6	2400	0.7	3.0
BOM15705	7.2	59.5	1.3	<0.2	21.7	3150	1.2	3.7
BOM15706	8.1	73.5	1.4	<0.2	22.3	3350	1.3	3.8
BOM15707	8.5	126	2.4	<0.2	29.6	3450	1.1	4.3
BOM15708	7.3	72.0	1.6	<0.2	22.6	3450	1.1	4.5
BOM15709	3.1	108	0.9	<0.2	18.9	2300	0.6	3.3
BOM15710	2.7	99.5	0.8	<0.2	21.2	2150	0.6	3.2
BOM15711	5.1	70.5	0.9	<0.2	19.0	2450	0.8	2.9
BOM15712	4.8	94.5	0.9	<0.2	22.2	2500	0.8	3.9
BOM15713	3.7	84.0	0.9	<0.2	20.4	2300	0.8	3.4
BOM15714	7.7	55.5	1.6	<0.2	29.4	3850	1.2	4.8
BOM15715	5.7	69.5	1.3	<0.2	23.2	2900	0.8	4.1
BOM15716	6.4	73.5	1.4	<0.2	27.1	3400	1.0	5.2
BOM15717	7.2	92.5	1.4	<0.2	26.5	3500	1.0	5.3
BOM15718	6.5	96.0	1.4	<0.2	25.2	3400	1.2	4.6
BOM15719	7.1	90.5	1.3	<0.2	24.1	3400	1.2	4.7
BOM15720	9.4	73.5	1.2	<0.2	24.1	3250	1.1	4.7
BOM15721	4.8	74.5	0.5	<0.2	20.2	2550	1.0	4.2
BOM15722	3.5	72.5	0.6	<0.2	22.1	2250	0.7	4.0
BOM15723	5.0	80.5	1.0	<0.2	20.3	2550	0.8	3.7
BOM15724	4.7	76.0	1.0	<0.2	19.7	2550	0.7	3.7
BOM15725	2.2	358	0.6	<0.2	3.8	2100	25.4	5.3
BOM15726	6.4	63.0	1.2	<0.2	20.1	2800	1.1	4.1
BOM15727	7.3	68.0	1.5	<0.2	23.4	3150	1.2	4.5
BOM15728	6.6	59.0	1.3	<0.2	22.4	3000	1.0	4.8
BOM15729	6.5	62.5	1.3	<0.2	24.5	2650	1.2	4.4
BOM15730	5.8	60.5	1.1	<0.2	20.4	2650	0.9	3.7
BOM15731	4.1	75.0	1.0	<0.2	20.6	2300	0.8	3.7
BOM15732	3.8	102	1.0	<0.2	22.1	2400	0.9	4.0
BOM15733	5.3	89.5	1.2	<0.2	21.5	2800	1.0	4.0
BOM15734	7.2	61.0	1.4	<0.2	24.0	2950	1.1	4.8
BOM15735	0.4	1.0	<0.1	<0.2	0.7	250	<0.1	0.2
BOM15736	4.8	113	1.1	<0.2	24.1	2750	0.9	4.5
BOM15737	5.0	133	1.0	<0.2	21.1	2600	1.2	3.4
BOM15738	8.2	133	1.4	<0.2	24.5	3300	1.7	4.5
BOM15739	8.3	67.0	1.3	<0.2	22.1	3250	1.0	4.6
BOM15740	4.0	96.5	0.9	<0.2	18.8	2250	0.6	3.7
BOM15741	5.9	39.0	1.1	<0.2	21.6	2750	0.8	2.4



Reference: aa066729 Order Number: Page 14 of 25

METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Determinants	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
BOM15742	9.4	65.0	1.4	<0.2	21.9	3350	0.9	2.6
BOM15743	7.9	72.5	1.3	<0.2	21.1	3100	0.6	2.5
BOM15744	6.6	63.5	1.0	<0.2	19.8	2650	0.5	2.7
BOM15745	8.7	49.0	1.5	<0.2	20.8	3250	0.9	3.2
BOM15746	9.6	61.5	1.5	<0.2	21.6	3350	1.0	4.5
BOM15747	4.3	82.0	0.9	<0.2	22.1	2050	0.4	3.7
BOM15748	11.6	50.0	1.2	<0.2	19.2	2500	0.5	4.3
BOM15749	9.1	74.0	1.1	<0.2	22.3	2700	0.6	4.4
BOM15750	2.2	335	0.6	<0.2	3.9	2050	26.0	5.4
BOM15751	9.8	53.5	1.3	<0.2	22.2	2950	0.9	4.6
BOM15752	9.6	65.0	1.4	<0.2	16.5	2250	0.6	3.7
BOM15753	23.0	47.5	1.5	<0.2	25.8	3200	1.0	4.3
BOM15754	13.5	77.0	1.6	<0.2	27.2	3300	1.2	4.6
BOM15755	8.5	68.5	1.5	<0.2	26.3	3550	1.4	5.4
BOM15756	8.7	63.0	1.4	<0.2	26.8	3400	1.3	5.2
BOM15757	6.5	51.0	1.1	<0.2	19.1	2650	1.3	4.1
BOM15758	7.5	68.5	1.4	<0.2	25.6	3250	1.6	5.5
BOM15759	6.3	78.5	1.4	<0.2	26.0	3100	1.5	5.2
BOM15760	5.9	106	1.3	<0.2	24.0	3150	1.4	4.6
BOM15761	7.3	73.5	1.3	<0.2	23.0	2950	1.2	5.1
BOM15762	7.8	91.0	1.6	<0.2	26.3	3800	1.4	5.0
BOM15763	8.6	60.5	1.4	<0.2	24.2	3400	1.4	5.0
BOM15764	4.7	106	1.0	<0.2	22.4	2050	0.7	4.0
BOM15765	4.3	109	0.9	<0.2	21.8	1900	0.7	3.8
BOM15766	6.3	104	1.1	<0.2	24.9	2550	1.0	4.6
BOM15767	7.3	85.5	1.1	<0.2	22.3	2600	1.3	4.6
BOM15768	4.3	103	0.9	<0.2	20.3	2100	0.8	4.0
BOM15769	4.3	124	1.0	<0.2	21.2	2100	0.7	3.7
BOM15770	4.4	108	0.8	<0.2	20.3	2000	0.6	3.4
BOM15771	4.1	113	0.9	<0.2	21.0	2100	0.7	3.7
BOM15772	5.9	66.5	1.1	<0.2	21.7	2800	1.4	4.8
BOM15773	4.6	84.0	0.6	<0.2	21.6	2550	1.2	4.1
BOM15774	6.5	66.5	1.0	<0.2	23.9	3150	1.6	5.1
BOM15775	0.5	1.5	<0.1	<0.2	0.8	250	<0.1	0.3
BOM15776	2.8	86.0	0.6	<0.2	15.6	1400	0.6	3.0
BOM15777	12.2	106	3.2	<0.2	21.9	3250	1.4	4.3
BOM15778	6.9	95.5	1.4	<0.2	24.9	3150	1.2	4.4
BOM15779	10.9	70.0	1.4	<0.2	25.1	3000	1.5	5.2
BOM15780	4.7	131	1.0	<0.2	21.5	2300	0.9	3.8
BOM15985	4.8	37.0	0.8	<0.2	24.8	2550	0.6	2.7
BOM15986	4.1	63.5	0.9	<0.2	24.5	2500	0.5	3.6



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METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Determinants	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
BOM15987	1.9	96.5	0.4	<0.2	15.6	1400	0.6	2.5
BOM15988	2.1	97.0	0.6	<0.2	20.8	1650	0.4	2.9
BOM15989	3.5	60.5	0.9	<0.2	23.1	2350	0.5	3.3
BOM15990	4.8	38.0	0.7	0.2	21.3	2200	0.6	2.8
BOM15991	15.6	60.5	1.0	<0.2	30.6	3800	1.6	4.3
BOM15992	10.6	83.0	0.8	<0.2	23.6	2750	0.9	4.8
BOM15993	11.8	80.0	1.1	<0.2	20.7	3250	0.7	4.3
BOM15994	11.2	104	1.1	0.4	22.8	3250	1.0	4.3
BOM15995	10.3	57.0	1.0	<0.2	20.8	2550	1.0	2.6
BOM15996	15.5	131	1.0	<0.2	22.5	2750	1.3	3.1
BOM15997	15.9	125	1.1	<0.2	22.2	3050	1.4	3.1
BOM15998	20.0	125	1.4	<0.2	22.0	3400	1.6	3.2
BOM15999	16.3	121	1.3	<0.2	23.1	3600	1.5	3.4

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Reference: aa066729 Order Number: Page 16 of 25

METHOD CODE	MA101	MA102	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	2	0.1	0.1	0.05
BOM15701	70	3.0	19.5	140	106	49.6	94.8	10.8
BOM15702	35	22.5	14.3	78	88	36.0	72.9	7.80
BOM15703	40	16.0	26.0	70	154	54.7	107	11.8
BOM15704	45	4.5	19.5	62	108	50.8	99.2	11.1
BOM15705	70	5.5	20.7	106	76	55.0	105	12.1
BOM15706	75	6.0	18.9	100	82	58.7	109	12.7
BOM15707	70	6.0	22.8	90	140	66.0	127	14.5
BOM15708	70	4.5	16.1	94	106	53.7	103	11.8
BOM15709	40	5.5	16.0	60	108	44.0	86.0	9.75
BOM15710	35	3.0	14.6	134	126	42.8	84.4	9.55
BOM15711	50	4.5	17.2	72	88	44.8	86.0	9.75
BOM15712	55	3.0	16.6	74	98	50.1	97.4	11.1
BOM15713	45	4.0	15.5	68	100	46.0	88.7	10.2
BOM15714	85	5.5	19.2	114	112	71.9	138	15.8
BOM15715	70	3.5	19.4	96	104	63.3	122	13.9
BOM15716	70	4.5	18.8	90	126	62.0	119	13.8
BOM15717	75	4.5	24.0	110	120	64.3	125	14.4
BOM15718	70	4.5	19.9	102	114	60.3	117	13.2
BOM15719	70	4.0	19.2	114	102	57.8	111	12.7
BOM15720	70	6.0	25.2	116	80	61.2	117	13.4
BOM15721	55	2.5	21.5	92	52	50.1	95.7	10.9
BOM15722	40	3.0	16.5	56	74	44.1	86.6	9.80
BOM15723	50	4.0	17.1	72	108	47.0	91.3	10.3
BOM15724	50	3.5	19.8	74	88	46.8	91.3	10.4
BOM15725	25	18.0	18.6	1.13%	104	9.2	36.2	5.85
BOM15726	65	4.5	18.2	116	82	52.1	100	11.5
BOM15727	75	4.5	24.1	124	70	64.1	121	13.9
BOM15728	70	4.0	23.6	120	74	57.1	110	12.6
BOM15729	70	4.0	22.0	112	80	48.9	94.8	11.0
BOM15730	65	5.5	20.9	90	76	54.3	104	11.8
BOM15731	45	3.5	15.0	62	106	42.3	82.4	9.35
BOM15732	45	3.0	15.2	70	108	46.0	90.4	10.3
BOM15733	55	4.0	18.8	90	100	50.3	97.4	11.1
BOM15734	70	5.5	22.4	100	96	58.2	112	12.9
BOM15735	<5	<0.5	0.8	8	8	1.1	2.1	0.20
BOM15736	55	4.5	20.5	78	112	53.8	104	11.9
BOM15737	55	4.0	22.2	94	96	51.5	101	11.4
BOM15738	85	4.5	26.8	146	90	63.5	122	14.0
BOM15739	70	5.5	24.9	90	96	58.1	111	12.6
BOM15740	40	3.5	15.0	56	108	39.3	77.5	8.75
BOM15741	65	5.5	11.9	46	88	46.4	102	10.3



Reference: aa066729 Order Number: Page 17 of 25

METHOD CODE	MA101	MA102	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	2	0.1	0.1	0.05
BOM15742	70	6.5	13.1	90	88	56.9	108	12.5
BOM15743	65	5.5	12.4	60	92	48.3	93.9	10.7
BOM15744	50	5.5	12.2	54	92	39.9	78.6	8.85
BOM15745	60	6.5	12.8	58	88	48.3	94.8	10.6
BOM15746	65	6.0	13.3	54	94	52.2	102	11.4
BOM15747	35	5.5	15.4	40	108	45.0	87.0	9.80
BOM15748	55	6.5	15.3	44	82	36.0	69.1	7.85
BOM15749	55	6.0	15.3	38	102	52.2	101	11.6
BOM15750	20	18.5	18.8	1.10%	104	9.3	34.6	5.50
BOM15751	60	5.5	16.5	44	94	52.7	102	11.7
BOM15752	40	5.5	10.1	28	88	37.6	72.8	8.25
BOM15753	65	10.5	18.1	46	106	51.8	99.2	11.4
BOM15754	65	10.5	20.7	68	110	57.1	111	12.6
BOM15755	70	5.5	17.0	88	96	63.3	123	13.9
BOM15756	65	6.5	19.6	94	92	62.6	121	13.9
BOM15757	55	4.5	10.8	74	70	47.0	90.4	10.3
BOM15758	60	5.5	16.6	102	96	62.1	118	13.5
BOM15759	60	4.5	15.8	102	106	61.6	117	13.4
BOM15760	55	9.5	22.3	94	108	55.3	107	12.4
BOM15761	55	21.5	19.1	126	92	51.0	99.2	11.2
BOM15762	75	10.5	21.0	112	106	60.2	118	13.4
BOM15763	70	5.5	15.0	108	92	53.9	105	11.9
BOM15764	30	5.5	13.5	54	108	42.2	83.2	9.30
BOM15765	25	3.5	13.5	124	104	40.3	79.0	8.80
BOM15766	40	8.5	15.6	98	116	46.0	92.2	10.4
BOM15767	50	26.5	16.1	90	96	50.8	97.4	11.0
BOM15768	35	12.5	16.6	74	108	43.3	84.7	9.55
BOM15769	30	8.0	12.4	48	110	40.1	79.1	8.85
BOM15770	25	9.5	12.1	48	106	37.6	74.6	8.35
BOM15771	30	35.5	14.8	56	94	42.7	84.2	9.35
BOM15772	55	5.5	13.1	92	86	49.0	95.7	10.8
BOM15773	45	3.5	18.3	76	66	50.0	95.7	10.8
BOM15774	60	4.0	16.5	102	84	54.9	105	12.1
BOM15775	<5	<0.5	0.8	8	8	1.3	2.6	0.30
BOM15776	20	14.5	11.2	38	68	31.0	61.0	6.60
BOM15777	55	12.5	16.1	90	104	46.5	92.2	10.6
BOM15778	55	39.0	19.2	72	106	56.0	109	12.4
BOM15779	65	6.5	17.8	90	84	58.6	111	12.8
BOM15780	35	7.0	12.6	60	116	42.5	83.5	9.35
BOM15985	40	2.5	12.1	256	100	34.1	71.9	7.50
BOM15986	50	2.5	21.4	232	100	60.5	112	13.4



Reference: aa066729 Order Number: Page 18 of 25

METHOD CODE	MA101	MA102	MA102	MA101	MA101	MA102	MA102	MA102
Determinants	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	2	0.1	0.1	0.05
BOM15987	20	3.0	13.3	216	48	32.6	59.3	6.85
BOM15988	20	2.0	14.1	126	98	40.4	74.0	8.80
BOM15989	40	2.5	13.1	156	110	39.5	75.3	8.90
BOM15990	40	1.5	11.9	412	90	35.1	71.5	7.45
BOM15991	80	3.0	23.4	4960	94	70.1	145	15.8
BOM15992	55	2.0	15.0	2940	76	54.1	105	11.8
BOM15993	65	2.0	37.0	2160	80	86.2	153	17.7
BOM15994	65	2.5	19.7	1470	78	54.2	101	11.6
BOM15995	45	3.0	10.3	1130	78	32.6	72.6	6.80
BOM15996	55	3.0	17.5	4220	84	60.1	102	12.7
BOM15997	55	3.5	14.9	4970	88	55.5	98.3	11.7
BOM15998	60	5.5	13.4	3400	88	53.5	97.4	11.4
BOM15999	60	4.0	13.0	1990	106	51.6	96.6	10.9

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METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Determinants	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
BOM15701	37.6	6.80	1.05	5.6	0.76	4.15	0.76	2.25
BOM15702	27.3	5.00	0.80	4.0	0.54	3.00	0.56	1.60
BOM15703	40.9	7.45	1.10	6.0	0.86	5.00	0.98	2.90
BOM15704	38.2	6.70	0.95	5.6	0.74	4.10	0.76	2.25
BOM15705	41.5	7.70	1.20	6.4	0.86	4.60	0.84	2.40
BOM15706	43.2	7.85	1.30	6.2	0.80	4.30	0.78	2.20
BOM15707	50.1	8.95	1.45	7.2	0.96	5.05	0.92	2.60
BOM15708	40.7	7.30	1.10	5.8	0.76	3.80	0.66	1.85
BOM15709	33.5	6.05	1.10	4.8	0.62	3.30	0.62	1.80
BOM15710	32.3	5.85	0.95	4.8	0.62	3.15	0.58	1.60
BOM15711	33.4	6.05	0.95	5.0	0.66	3.60	0.66	1.90
BOM15712	38.0	6.85	1.10	5.4	0.70	3.80	0.68	1.95
BOM15713	35.0	6.45	1.05	5.2	0.66	3.40	0.62	1.70
BOM15714	54.4	9.85	1.55	7.6	0.94	4.65	0.82	2.30
BOM15715	47.7	8.50	1.40	6.6	0.84	4.40	0.80	2.40
BOM15716	47.6	8.75	1.40	6.8	0.84	4.30	0.78	2.10
BOM15717	49.7	9.15	1.45	7.4	0.96	5.25	0.96	2.70
BOM15718	45.8	8.35	1.30	6.6	0.86	4.65	0.86	2.20
BOM15719	43.6	8.05	1.30	6.4	0.84	4.40	0.78	2.15
BOM15720	46.0	8.40	1.35	7.0	0.96	5.25	0.96	2.80
BOM15721	38.0	6.90	1.10	5.8	0.80	4.45	0.84	2.40
BOM15722	33.9	6.15	1.00	5.0	0.66	3.55	0.64	1.85
BOM15723	35.6	6.50	1.05	5.2	0.70	3.75	0.68	1.90
BOM15724	35.7	6.65	1.10	5.6	0.76	4.25	0.78	2.20
BOM15725	25.6	5.75	2.10	5.2	0.70	3.85	0.74	2.15
BOM15726	39.2	7.15	1.15	5.8	0.76	3.95	0.72	2.00
BOM15727	47.8	8.75	1.35	7.0	0.96	5.15	1.04	2.65
BOM15728	43.5	7.90	1.30	6.4	0.90	4.95	0.92	2.60
BOM15729	38.3	7.25	1.25	6.2	0.86	4.75	0.88	2.50
BOM15730	41.3	7.60	1.20	6.2	0.84	4.55	0.84	2.35
BOM15731	32.4	5.80	0.95	4.6	0.62	3.30	0.60	1.70
BOM15732	35.1	6.40	1.05	5.2	0.66	3.45	0.60	1.65
BOM15733	38.5	6.95	1.10	5.6	0.74	3.90	0.72	1.90
BOM15734	44.8	8.05	1.20	6.6	0.88	4.75	0.90	2.50
BOM15735	0.85	0.20	<0.05	<0.2	<0.02	0.15	0.04	0.10
BOM15736	41.1	7.45	1.20	6.0	0.80	4.25	0.78	2.15
BOM15737	39.6	7.35	1.30	6.0	0.82	4.45	0.84	2.35
BOM15738	48.7	9.05	1.55	7.6	1.04	5.75	1.10	3.10
BOM15739	43.4	7.65	1.20	6.0	0.82	4.50	0.84	2.45
BOM15740	30.1	5.60	0.90	4.6	0.60	3.20	0.58	1.60
BOM15741	36.0	6.55	0.85	5.0	0.62	2.95	0.50	1.30



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METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Determinants	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
BOM15742	43.6	7.75	1.15	6.0	0.72	3.30	0.54	1.40
BOM15743	37.2	6.80	1.00	5.4	0.64	3.10	0.52	1.35
BOM15744	30.6	5.65	0.85	4.4	0.56	2.75	0.52	1.30
BOM15745	37.0	6.75	0.95	5.2	0.64	3.05	0.50	1.40
BOM15746	40.0	7.10	1.05	5.6	0.68	3.20	0.52	1.40
BOM15747	34.0	6.15	0.95	4.8	0.62	3.25	0.60	1.60
BOM15748	27.8	5.30	0.80	4.4	0.62	3.30	0.60	1.70
BOM15749	40.2	7.40	1.15	5.8	0.74	3.55	0.60	1.65
BOM15750	24.7	5.60	2.00	5.2	0.68	3.80	0.74	2.15
BOM15751	40.2	7.35	1.15	5.8	0.74	3.70	0.64	1.80
BOM15752	28.7	5.50	0.80	4.2	0.52	2.40	0.40	1.05
BOM15753	39.5	7.30	1.05	5.8	0.76	4.10	0.76	2.05
BOM15754	43.9	8.30	1.30	6.6	0.88	4.55	0.82	2.25
BOM15755	48.6	8.85	1.30	6.8	0.84	4.15	0.68	1.85
BOM15756	48.1	8.75	1.30	6.8	0.86	4.35	0.76	2.05
BOM15757	35.6	6.45	0.95	5.0	0.60	2.75	0.44	1.15
BOM15758	47.3	8.60	1.30	6.6	0.82	3.95	0.66	1.75
BOM15759	46.8	8.45	1.30	6.4	0.78	3.75	0.62	1.65
BOM15760	42.8	7.85	1.30	6.0	0.76	3.70	0.60	1.65
BOM15761	38.8	7.10	1.10	5.8	0.76	4.20	0.74	2.05
BOM15762	46.5	8.45	1.35	6.8	0.88	4.65	0.82	2.30
BOM15763	41.4	7.65	1.15	5.8	0.76	3.75	0.62	1.60
BOM15764	32.0	5.80	0.90	4.6	0.58	2.95	0.52	1.40
BOM15765	30.6	5.60	0.80	4.4	0.56	2.90	0.52	1.50
BOM15766	35.5	6.50	0.95	5.2	0.66	3.40	0.60	1.65
BOM15767	38.4	7.00	1.05	5.6	0.74	3.75	0.68	1.80
BOM15768	33.2	6.10	0.95	5.0	0.66	3.45	0.62	1.75
BOM15769	30.5	5.50	0.80	4.2	0.54	2.80	0.48	1.35
BOM15770	28.6	5.15	0.75	4.0	0.52	2.70	0.46	1.30
BOM15771	32.4	5.85	0.90	4.6	0.60	3.20	0.58	1.60
BOM15772	37.8	7.05	1.05	5.4	0.68	3.30	0.52	1.35
BOM15773	38.1	7.00	1.15	5.8	0.72	3.75	0.66	1.80
BOM15774	41.9	7.80	1.20	6.0	0.76	3.90	0.64	1.75
BOM15775	1.05	0.20	<0.05	<0.2	0.04	0.20	0.04	0.10
BOM15776	23.2	4.20	0.65	3.4	0.44	2.30	0.42	1.15
BOM15777	36.3	6.85	1.05	5.4	0.70	3.70	0.64	1.75
BOM15778	42.9	8.00	1.25	6.4	0.82	4.20	0.76	2.05
BOM15779	44.6	8.15	1.25	6.4	0.82	4.20	0.74	2.00
BOM15780	32.6	5.85	0.90	4.6	0.58	2.90	0.50	1.40
BOM15985	26.5	4.95	0.55	4.0	0.54	2.75	0.48	1.35
BOM15986	46.7	8.40	1.20	6.4	0.84	4.50	0.82	2.35



Reference: aa066729 Order Number: Page 21 of 25

METHOD CODE	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Determinants	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
BOM15987	24.4	4.50	0.70	3.6	0.50	2.75	0.50	1.45
BOM15988	30.6	5.50	0.75	4.2	0.54	2.90	0.52	1.50
BOM15989	31.2	5.65	0.75	4.2	0.54	2.85	0.58	1.50
BOM15990	26.4	4.90	0.60	3.8	0.52	2.65	0.46	1.25
BOM15991	55.5	10.3	1.40	8.2	1.08	5.30	0.92	2.45
BOM15992	41.0	7.35	0.95	5.6	0.72	3.70	0.60	1.65
BOM15993	63.5	12.3	1.60	10.4	1.44	7.80	1.40	3.75
BOM15994	40.7	7.50	1.05	6.0	0.80	4.25	0.76	2.10
BOM15995	24.1	4.40	0.60	3.4	0.46	2.35	0.42	1.15
BOM15996	44.5	8.05	1.30	6.2	0.80	4.10	0.70	1.85
BOM15997	41.5	7.50	1.20	5.8	0.74	3.55	0.58	1.50
BOM15998	39.2	7.30	1.15	5.6	0.70	3.30	0.54	1.35
BOM15999	38.5	7.00	1.10	5.6	0.68	3.30	0.56	1.30

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Reference: aa066729 Order Number: Page 22 of 25

METHOD CODE	MA102	MA102	MA102	FA001	PR002	PR403
Determinants	Tm	Yb	Lu	Au*	WetWt	Pass75um
Units	ppm	ppm	ppm	ppm	grams	%
Detection Limit	0.05	0.05	0.02	0.01	1	0.01
BOM15701	0.30	1.95	0.30	0.01	3387	NR
BOM15702	0.20	1.50	0.22	<0.01	2724	NR
BOM15703	0.40	2.75	0.40	<0.01	3112	NR
BOM15704	0.30	2.20	0.30	<0.01	2530	90.4
BOM15705	0.30	2.15	0.32	<0.01	2184	NR
BOM15706	0.30	1.95	0.30	<0.01	2766	NR
BOM15707	0.35	2.35	0.36	<0.01	3327	NR
BOM15708	0.20	1.75	0.28	<0.01	2835	NR
BOM15709	0.20	1.60	0.26	<0.01	2621	NR
BOM15710	0.20	1.55	0.24	0.01	2766	NR
BOM15711	0.25	1.75	0.28	0.01	2430	NR
BOM15712	0.25	1.85	0.28	0.01	2728	NR
BOM15713	0.20	1.50	0.24	0.01	2102	NR
BOM15714	0.25	2.00	0.30	<0.01	2270	NR
BOM15715	0.25	1.95	0.30	<0.01	1930	NR
BOM15716	0.25	2.00	0.30	<0.01	2297	NR
BOM15717	0.35	2.45	0.38	<0.01	2495	NR
BOM15718	0.30	2.05	0.30	<0.01	2304	NR
BOM15719	0.25	2.00	0.28	0.01	2865	NR
BOM15720	0.35	2.55	0.38	0.01	2399	NR
BOM15721	0.30	2.20	0.34	<0.01	2283	NR
BOM15722	0.25	1.85	0.28	0.01	2748	NR
BOM15723	0.25	1.85	0.28	<0.01	3162	NR
BOM15724	0.30	2.05	0.30	<0.01	2434	96.9
BOM15725	0.30	2.20	0.32	0.37	97	NR
BOM15726	0.25	1.85	0.28	<0.01	3344	NR
BOM15727	0.35	2.45	0.36	<0.01	2784	NR
BOM15728	0.35	2.45	0.36	<0.01	2853	NR
BOM15729	0.30	2.20	0.32	<0.01	3202	NR
BOM15730	0.30	2.20	0.32	0.01	3104	NR
BOM15731	0.20	1.60	0.28	<0.01	2671	NR
BOM15732	0.20	1.60	0.24	0.01	2420	NR
BOM15733	0.25	1.75	0.28	<0.01	2478	NR
BOM15734	0.35	2.35	0.34	0.01	2404	NR
BOM15735	<0.05	0.10	<0.02	<0.01	97	NR
BOM15736	0.25	2.00	0.30	<0.01	2315	NR
BOM15737	0.30	2.25	0.32	<0.01	2777	NR
BOM15738	0.40	2.85	0.44	<0.01	2480	NR
BOM15739	0.30	2.30	0.36	<0.01	2327	NR
BOM15740	0.20	1.50	0.24	<0.01	1901	NR
BOM15741	0.20	1.25	0.20	<0.01	2644	NR



Reference: aa066729 Order Number: Page 23 of 25

METHOD CODE	MA102	MA102	MA102	FA001	PR002	PR403
Determinants	Tm	Yb	Lu	Au*	WetWt	Pass75um
Units	ppm	ppm	ppm	ppm	grams	%
Detection Limit	0.05	0.05	0.02	0.01	1	0.01
BOM15742	0.20	1.25	0.20	<0.01	2184	NR
BOM15743	0.20	1.30	0.20	<0.01	2472	NR
BOM15744	0.20	1.25	0.20	<0.01	2762	91.2
BOM15745	0.20	1.25	0.20	<0.01	2354	NR
BOM15746	0.20	1.30	0.22	<0.01	2551	NR
BOM15747	0.20	1.50	0.24	<0.01	2868	NR
BOM15748	0.20	1.60	0.26	<0.01	2600	NR
BOM15749	0.20	1.60	0.26	<0.01	2390	NR
BOM15750	0.30	2.30	0.34	0.36	96	NR
BOM15751	0.20	1.90	0.26	0.02	2582	NR
BOM15752	0.15	1.05	0.14	<0.01	2764	NR
BOM15753	0.25	2.00	0.30	<0.01	2688	NR
BOM15754	0.30	2.30	0.32	<0.01	2512	NR
BOM15755	0.20	1.70	0.26	0.02	2714	NR
BOM15756	0.25	1.95	0.28	<0.01	2188	NR
BOM15757	0.15	1.05	0.16	0.01	2585	NR
BOM15758	0.20	1.60	0.24	0.02	2321	NR
BOM15759	0.20	1.55	0.24	<0.01	2208	NR
BOM15760	0.20	1.50	0.22	<0.01	2076	NR
BOM15761	0.25	2.00	0.28	<0.01	2125	NR
BOM15762	0.30	2.15	0.32	<0.01	2256	NR
BOM15763	0.20	1.55	0.24	<0.01	1974	NR
BOM15764	0.20	1.30	0.20	0.01	2187	98.4
BOM15765	0.20	1.35	0.20	0.01	2919	NR
BOM15766	0.20	1.50	0.24	0.01	2414	NR
BOM15767	0.20	1.65	0.26	<0.01	2579	NR
BOM15768	0.20	1.60	0.26	<0.01	2752	NR
BOM15769	0.20	1.20	0.18	0.01	2668	NR
BOM15770	0.20	1.20	0.18	<0.01	2334	NR
BOM15771	0.20	1.40	0.22	0.01	2916	NR
BOM15772	0.20	1.25	0.18	0.01	1703	NR
BOM15773	0.20	1.60	0.26	<0.01	1762	NR
BOM15774	0.20	1.60	0.24	<0.01	1881	NR
BOM15775	<0.05	0.15	<0.02	<0.01	96	NR
BOM15776	0.15	1.10	0.16	<0.01	2390	NR
BOM15777	0.20	1.65	0.26	0.01	2450	NR
BOM15778	0.25	1.90	0.28	<0.01	2156	NR
BOM15779	0.25	1.85	0.28	<0.01	2553	NR
BOM15780	0.20	1.25	0.20	<0.01	1768	NR
BOM15985	0.20	1.25	0.20	<0.01	1422	NR
BOM15986	0.30	2.15	0.32	0.01	1733	NR





Reference: aa066729 Order Number: Page 24 of 25

METHOD CODE	MA102	MA102	MA102	FA001	PR002	PR403
Determinants	Tm	Yb	Lu	Au*	WetWt	Pass75um
Units	ppm	ppm	ppm	ppm	grams	%
Detection Limit	0.05	0.05	0.02	0.01	1	0.01
BOM15987	0.20	1.25	0.18	0.01	1529	NR
BOM15988	0.20	1.35	0.20	<0.01	1862	93.2
BOM15989	0.20	1.35	0.22	<0.01	1852	NR
BOM15990	0.20	1.25	0.18	<0.01	1506	NR
BOM15991	0.30	2.15	0.32	<0.01	2806	NR
BOM15992	0.20	1.50	0.22	0.01	3103	NR
BOM15993	0.50	3.20	0.44	<0.01	3796	NR
BOM15994	0.25	1.95	0.28	<0.01	4113	NR
BOM15995	0.15	1.15	0.18	<0.01	1766	NR
BOM15996	0.20	1.65	0.26	0.01	1412	NR
BOM15997	0.20	1.30	0.20	<0.01	1537	NR
BOM15998	0.20	1.20	0.18	<0.01	4508	NR
BOM15999	0.20	1.10	0.16	<0.01	3392	NR

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These results pertain to the samples as received at this laboratory.  
Where standards are reported, the nominal value for the element is reported above the result found.

"NR" Implies result is not required for this determination

"%" Implies this result reported in %

#### Sample Storage

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The excess material (Residue) will be held after 30 days  
The pulp samples (Pulp) will be held after 60 days as per instructions.

#### Sample Preparation

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#### Digest and Analysis:

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The sample(s) have been digested and refluxed with a mixture of Acids, including: Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a total digest for many elements however, some refractory minerals are not completely attacked.

Al, Ba, Ca, Cr, Cu, Fe, K, Li, Mg, Mn, Na, Ni, P, S, Sc, Ti, V, Zn, Zr  
have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.  
Ag, As, Be, Bi, Cd, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, In, La, Lu, Mo, Nb, Nd, Pb, Pr, Rb, Re, Sb, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Tl, Tm, U, W, Y, Yb  
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

The samples have been analysed by Firing a 40 gm (approx) portion of the sample. Lower sample weights may be employed for samples with very high sulphide and metal contents. This is the classical fire assay process and will give total separation of Gold, Platinum and Palladium in the sample. (Test Method MC-FA-01)

Au  
have been determined by Atomic Absorbtion Spectrometry.

% Passing is the percentage of material passing the sieve using wet sieving techniques.

Pass75um  
have been determined Gravimetrically.

(\*) Assays on this report are covered under the NATA scope of accreditation.