



Australian Laboratory Services Pty. Ltd.  
 32 Shand Street  
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 www.alsglobal.com

**CERTIFICATE**

The following have access to data associated with this certificate:

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
PUL-31b	Pulv. Lg split to >80% -75um
CRU-21	Crush entire sample >70% -6 mm

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **ALS MINERALS - SALES**  
**ATTN: ALS MINERALS**  
  
**CANADA**

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**

Ricky Gelston, Laboratory Manager, Burnie



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 Plus Appendix Pages  
 Finalized Date: 3-MAR-2015  
 Account: MICK

Project: Rob Reid

**CERTIFICATE OF ANALYSIS BU15020702**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA25 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
97701		0.21	0.05	0.03	4.93	1.1	890	1.26	0.14	0.02	0.03	260	0.8	2	1.46	9.0
97702		0.57	0.02	0.06	0.14	1.4	10	0.10	0.11	0.01	<0.02	7.62	0.8	33	0.13	12.4
97703		0.68	<0.01	0.06	0.80	1.4	190	0.51	0.09	0.01	<0.02	22.0	0.9	37	0.49	6.0
97704		0.69	0.02	0.15	0.23	1.3	10	0.09	0.09	0.01	0.02	8.53	0.8	35	0.17	10.7
97705		0.68	<0.01													
97706		0.57	<0.01													
97707		0.56	<0.01	0.05	6.58	2.4	1060	2.87	0.32	0.01	<0.02	98.7	1.4	5	5.43	4.1
97708		0.10	<0.01	0.13	1.09	8.9	120	1.35	0.26	0.66	0.64	46.4	21.4	174	1.05	24.5
97709		0.50	<0.01	0.06	0.31	10.2	120	0.28	0.09	0.03	0.11	8.86	20.8	40	0.28	6.9
97710		0.06	<0.01	0.14	1.74	29.1	60	2.38	0.31	0.01	0.22	29.9	44.2	98	1.85	35.8
97711		0.57	<0.01	0.12	5.82	6.6	1390	2.59	0.18	0.01	<0.02	119.0	1.0	3	4.88	12.9
97712		0.32	<0.01													
97713		0.38	0.01	0.07	6.69	4.9	1400	2.43	0.10	0.01	<0.02	109.5	1.1	5	3.33	6.2
97714		0.17	<0.01	0.29	2.39	8.9	340	1.16	1.26	0.01	0.26	19.35	1.5	57	1.96	18.7
97715		0.33	<0.01	0.22	10.35	37.3	1390	3.71	0.22	0.24	<0.02	124.5	2.2	204	5.55	22.3
97716		0.35	<0.01	0.35	7.26	38.3	1320	3.52	0.94	0.01	0.76	98.1	7.9	134	6.29	34.7
97717		0.55	<0.01													



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**CERTIFICATE OF ANALYSIS BU15020702**

Sample Description	Method Analyte Units LOR	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
97701		0.96	18.25	0.35	4.9	0.047	4.72	118.5	1.4	0.06	29	1.10	0.10	20.8	1.6	130
97702		0.86	0.80	0.08	0.5	0.005	0.08	4.2	1.0	0.01	95	0.71	0.01	0.5	3.3	10
97703		0.86	2.27	0.09	0.7	0.008	0.46	8.8	3.6	0.05	82	0.34	0.01	1.7	5.9	120
97704		0.75	1.02	0.09	0.5	<0.005	0.12	4.6	0.9	0.01	84	0.45	0.01	0.8	2.8	10
97705																
97706																
97707		3.75	21.0	0.25	7.6	0.176	4.76	47.3	7.5	0.49	148	0.78	0.16	14.0	1.4	130
97708		8.20	2.92	0.17	2.5	0.039	0.56	20.2	2.5	0.11	1600	0.42	0.03	3.5	9.1	230
97709		2.32	1.32	0.10	0.4	0.005	0.10	2.8	2.2	0.02	2640	0.38	0.01	0.7	15.2	60
97710		44.8	3.76	0.71	0.7	0.050	0.68	12.7	2.3	0.15	1220	0.77	0.01	1.9	69.6	1810
97711		2.86	15.40	0.22	5.5	0.075	4.13	57.9	8.9	0.34	37	0.54	0.08	7.7	1.1	120
97712																
97713		1.89	17.55	0.24	6.8	0.068	5.59	52.3	5.1	0.28	32	0.36	0.06	12.0	1.7	110
97714		0.85	6.36	0.13	1.1	0.034	1.36	8.7	5.8	0.26	29	0.39	0.02	3.4	3.9	30
97715		5.10	26.6	0.29	3.5	0.179	3.08	54.5	20.7	2.14	497	1.67	0.24	15.0	69.3	1270
97716		3.12	21.4	0.24	4.2	0.134	3.55	45.1	16.3	1.01	94	1.89	0.23	9.8	25.6	120
97717																

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS BU15020702**

Sample Description	Method Analyte Units LOR	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
97701		15.8	200	<0.002	0.01	1.87	7.8	1	2.4	32.9	1.47	0.06	17.5	0.110	0.69	2.9
97702		6.9	4.2	<0.002	<0.01	1.32	0.4	<1	0.5	2.1	<0.05	<0.05	0.8	0.019	0.03	0.3
97703		8.6	24.6	<0.002	0.01	0.97	1.8	<1	0.7	19.1	0.13	<0.05	2.0	0.053	0.08	0.5
97704		8.1	6.3	<0.002	0.01	1.10	0.5	<1	0.5	2.2	<0.05	<0.05	0.9	0.038	0.03	0.5
97705																
97706		8.5	315	0.002	0.02	0.65	10.3	1	4.0	18.3	1.01	0.07	16.8	0.249	1.16	4.6
97707		47.2	26.4	<0.002	0.08	1.08	3.1	1	3.0	30.4	0.25	<0.05	5.8	0.096	0.14	1.9
97708		7.5	5.1	<0.002	0.01	0.73	0.4	<1	0.7	5.0	0.06	<0.05	0.8	0.022	0.07	0.2
97709		63.5	32.7	<0.002	0.07	8.99	5.5	1	1.7	2.4	0.14	0.10	5.2	0.056	0.16	1.1
97710																
97711		30.2	178.0	<0.002	0.01	1.00	7.7	1	2.0	32.0	0.61	0.05	18.2	0.130	0.75	3.9
97712																
97713		7.2	243	<0.002	0.01	1.39	8.8	1	2.9	33.8	0.90	<0.05	18.4	0.215	1.07	4.8
97714		20.5	77.9	<0.002	0.24	1.73	5.2	1	1.5	3.7	0.28	<0.05	3.6	0.103	0.42	1.6
97715		49.8	167.0	0.002	0.01	5.25	23.6	2	3.4	18.5	0.90	0.05	17.8	0.622	0.95	4.5
97716		42.7	195.5	0.003	0.69	4.70	21.9	2	3.3	13.4	0.72	0.14	15.9	0.280	1.23	5.0
97717																

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**CERTIFICATE OF ANALYSIS BU15020702**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	PUL-QC Pass75um % 0.01
97701		5	4.3	16.3	15	157.5	
97702		2	1.1	1.1	8	18.1	
97703		10	2.3	8.4	5	26.7	
97704		2	0.8	1.8	8	19.6	98.4
97705							
97706		19	2.5	16.5	31	283	
97707		14	1.5	14.1	86	90.3	
97708		4	0.4	1.8	49	15.0	
97709		43	3.9	14.7	1210	22.8	
97710							
97711		11	0.9	11.4	40	209	
97712							
97713		17	7.9	17.3	26	261	
97714		48	1.2	4.4	81	38.8	
97715		196	4.6	24.4	102	120.5	
97716		109	2.0	14.9	142	159.0	
97717							

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	<b>CERTIFICATE COMMENTS</b>						
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>						
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia.            ME-MS61</p>						
Applies to Method:	<p>Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA25</td> <td style="width: 33%;">CRU-21</td> <td style="width: 33%;">LEV-01</td> </tr> <tr> <td>PUL-QC</td> <td>WEI-21</td> <td>PUL-31b</td> </tr> </table>	Au-AA25	CRU-21	LEV-01	PUL-QC	WEI-21	PUL-31b
Au-AA25	CRU-21	LEV-01					
PUL-QC	WEI-21	PUL-31b					