



Australian Laboratory Services Pty. Ltd.
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To: **COPPER MINES OF TASMANIA P/L**
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QUEENSTOWN TAS 7487

Page: 1
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 Plus Appendix Pages
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QC CERTIFICATE BR20055748

This report is for 58 Soil samples submitted to our lab in Burnie, TAS, Australia on 2-MAR-2020.
 The following have access to data associated with this certificate:

GEOFF CORDERY	KEN MORRISON
---------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DRY-22	Drying - Maximum Temp 60C
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
BAG-01	Bulk Master for Storage
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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:

Shaun Kenny, Brisbane Laboratory Manager



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QC CERTIFICATE OF ANALYSIS BR20055748

Sample Description	Method Analyte Units LOD	ME-MS41														
		Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
STANDARDS																
G912-5		0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
G912-5																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		3.07	0.90	57.9	0.48	<10	100	0.32	1.18	0.66	1.73	88.7	15.1	21	0.83	3600
Target Range - Lower Bound		2.60	0.85	50.3	0.38	<10	70	0.17	1.09	0.62	1.52	79.3	12.8	20	0.66	3350
Upper Bound		3.20	1.06	61.7	0.51	30	140	0.40	1.35	0.79	1.88	97.0	15.9	27	0.94	3850
GLG908-4																
GLG908-4																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.45	2.44	32.5	<0.02	<10	410	0.76	0.70	1.00	2.20	73.0	18.8	84	10.45	609
Target Range - Lower Bound		4.00	2.44	29.6	<0.02	<10	370	0.67	0.58	1.00	2.01	66.2	17.0	81	9.40	587
Upper Bound		4.92	3.00	36.4	0.04	20	530	0.95	0.73	1.24	2.47	81.0	21.0	102	11.60	675
OGGeo08		19.00	2.21	115.0	0.07	<10	70	0.60	11.20	0.89	18.90	56.0	85.3	77	9.04	8230
Target Range - Lower Bound		18.15	2.05	107.0	0.03	<10	60	0.61	9.44	0.82	16.75	56.7	87.2	75	8.68	7800
Upper Bound		22.2	2.53	131.0	0.11	30	110	0.89	11.55	1.02	20.5	69.3	107.0	93	10.70	8980
OREAS-45e		0.24	3.16	12.5	0.05	<10	140	0.40	0.25	0.03	0.02	16.65	51.8	795	0.75	705
Target Range - Lower Bound		0.21	2.98	10.2	<0.02	<10	110	0.29	0.19	<0.01	<0.01	15.90	46.7	763	0.63	659
Upper Bound		0.28	3.66	12.6	0.09	20	170	0.53	0.25	0.05	0.04	19.50	57.3	935	0.91	759
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
BLANK		<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.02	0.02	0.2	0.04	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4

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QC CERTIFICATE OF ANALYSIS BR20055748

Sample Description	Method Analyte Units LOD	ME-MS41														
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
STANDARDS																
G912-5																
G912-5																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		2.62	5.07	0.11	0.68	0.02	0.023	0.42	45.7	6.0	0.51	281	62.2	0.12	0.44	2220
Target Range - Lower Bound		2.35	4.18	<0.05	0.62	<0.01	0.012	0.37	42.6	5.5	0.47	259	57.9	0.09	0.35	2020
Upper Bound		2.89	5.22	0.25	0.80	0.04	0.034	0.48	52.5	6.9	0.59	327	70.9	0.15	0.65	2470
GLG908-4																
GLG908-4																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		3.51	10.10	0.17	0.78	0.06	0.158	1.24	36.5	30.9	1.09	389	15.05	0.31	0.82	686
Target Range - Lower Bound		3.22	8.73	0.07	0.64	0.04	0.137	1.12	33.2	29.6	1.03	378	13.10	0.30	0.75	622
Upper Bound		3.96	10.80	0.29	0.83	0.10	0.179	1.40	41.0	36.4	1.29	473	16.10	0.39	1.13	760
OGGeo08		5.04	8.21	0.22	0.92	0.49	1.355	1.02	27.5	23.5	0.91	387	872	0.30	1.16	8530
Target Range - Lower Bound		4.51	7.69	0.21	0.72	0.41	1.335	0.94	26.7	28.4	0.84	350	811	0.26	0.91	7760
Upper Bound		5.53	9.51	0.45	0.92	0.57	1.645	1.18	33.1	35.0	1.05	438	991	0.34	1.35	9480
OREAS-45e		22.8	13.15	0.26	0.93	0.01	0.082	0.05	7.1	2.5	0.08	379	1.96	0.02	0.31	368
Target Range - Lower Bound		20.4	10.50	0.24	0.74	<0.01	0.077	0.03	6.6	2.2	0.07	324	1.55	<0.01	0.14	321
Upper Bound		24.9	12.90	0.48	0.95	0.04	0.106	0.08	8.5	2.9	0.12	408	2.01	0.05	0.39	393
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
STANDARDS																
G912-5																
G912-5																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		790	2040	28.3	0.001	0.36	1.31	1.9	0.3	1.8	33.3	0.01	0.05	17.1	0.296	0.25
Target Range - Lower Bound		760	1845	26.4	<0.001	0.33	1.06	1.8	<0.2	1.2	30.8	<0.01	0.03	15.2	0.276	0.15
Upper Bound		960	2250	32.4	0.002	0.43	1.55	2.4	0.9	2.2	38.0	0.02	0.07	19.0	0.348	0.27
GLG908-4																
GLG908-4																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		920	1030	144.5	0.008	0.28	3.66	7.1	0.9	3.7	74.3	0.01	0.02	20.8	0.360	0.81
Target Range - Lower Bound		900	959	132.0	0.006	0.27	2.80	6.7	0.6	2.8	72.1	<0.01	<0.01	19.1	0.338	0.64
Upper Bound		1130	1175	162.0	0.010	0.35	3.90	8.4	1.5	4.0	88.5	0.03	0.04	23.7	0.424	0.92
OGGeo08		730	7000	115.0	1.385	2.53	22.8	5.7	10.0	12.5	62.2	0.01	0.30	16.0	0.305	1.41
Target Range - Lower Bound		700	6520	109.5	1.295	2.51	17.70	5.6	9.7	12.0	59.6	<0.01	0.14	14.8	0.279	1.14
Upper Bound		880	7970	134.5	1.585	3.09	24.1	7.0	12.3	15.1	73.2	0.03	0.20	18.6	0.353	1.58
OREAS-45e		270	14.1	7.4	<0.001	0.04	0.67	78.9	1.5	0.9	3.8	<0.01	0.12	10.1	0.100	0.06
Target Range - Lower Bound		250	12.7	7.0	<0.001	0.02	0.45	70.1	1.3	0.5	3.4	<0.01	0.08	9.4	0.090	<0.02
Upper Bound		330	15.9	8.8	0.002	0.07	0.77	85.9	2.3	1.4	4.7	0.03	0.13	12.0	0.122	0.10
BLANKS																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04

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Sample Description	Method Analyte Units LOD	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Au-TL43 Au ppm
		0.05	1	0.05	0.05	2	0.5	0.001
STANDARDS								
G912-5								0.370
G912-5								0.385
Target Range - Lower Bound								0.322
Upper Bound								0.438
GBM908-10		1.39	44	2.53	18.90	998	27.6	
Target Range - Lower Bound		1.15	41	1.62	17.55	921	23.5	
Upper Bound		1.51	53	2.32	21.6	1130	32.9	
GLG908-4								0.066
GLG908-4								0.069
Target Range - Lower Bound								0.055
Upper Bound								0.077
MGeo08		5.67	93	2.93	19.10	753	22.3	
Target Range - Lower Bound		4.93	90	2.44	17.50	708	18.1	
Upper Bound		6.13	112	3.42	21.5	870	25.7	
OGGeo08		5.31	74	3.12	15.75	6700	23.2	
Target Range - Lower Bound		4.45	70	2.58	15.35	6500	19.5	
Upper Bound		5.55	88	3.60	18.85	7950	27.5	
OREAS-45e		1.85	272	0.11	5.48	30	30.1	
Target Range - Lower Bound		1.51	265	<0.05	5.12	25	23.3	
Upper Bound		1.95	326	0.24	6.36	36	32.7	
BLANKS								
BLANK								<0.001
BLANK								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5	
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5	
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5	
Upper Bound		0.10	2	0.10	0.10	4	1.0	

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Sample Description	Method Analyte Units LOD	ME-MS41														
		Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
DUPLICATES																
WCS0122		0.98	1.67	31.3	<0.02	<10	100	0.25	1.37	0.01	0.13	145.5	4.0	134	1.11	74.4
DUP		0.98	1.72	31.3	<0.02	<10	110	0.25	1.40	0.01	0.13	148.0	4.0	137	1.13	75.8
Target Range - Lower Bound		0.92	1.60	29.6	<0.02	<10	90	0.19	1.31	<0.01	0.11	139.5	3.7	128	1.01	72.3
Upper Bound		1.04	1.79	33.0	0.04	20	120	0.31	1.46	0.02	0.15	154.0	4.3	143	1.23	77.9
SBS012		0.09	5.00	27.7	<0.02	<10	50	0.49	0.19	0.01	0.06	73.0	11.1	51	1.73	55.6
DUP		0.10	5.00	28.0	<0.02	<10	50	0.52	0.19	0.01	0.06	72.3	11.1	51	1.74	55.5
Target Range - Lower Bound		0.08	4.74	26.4	<0.02	<10	40	0.43	0.17	<0.01	0.05	69.0	10.4	47	1.60	53.4
Upper Bound		0.11	5.26	29.3	0.04	20	60	0.58	0.21	0.02	0.07	76.3	11.8	55	1.87	57.7
SBS017																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS027																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS045																
DUP																
Target Range - Lower Bound																
Upper Bound																

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		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
DUPLICATES																
WCS0122		6.28	9.16	0.15	0.07	0.11	0.041	0.14	76.3	2.3	0.07	1060	1.33	<0.01	1.80	5.0
DUP		6.39	9.55	0.17	0.07	0.10	0.042	0.15	76.0	2.4	0.07	1060	1.35	<0.01	1.82	4.9
Target Range - Lower Bound		6.01	8.84	0.10	0.05	0.09	0.034	0.13	72.1	2.1	0.06	1000	1.22	<0.01	1.62	4.5
Upper Bound		6.66	9.87	0.22	0.09	0.12	0.049	0.16	80.2	2.6	0.08	1120	1.46	0.02	2.00	5.4
SBS012		6.32	15.75	0.08	0.05	0.11	0.050	0.14	37.8	17.3	0.80	199	1.15	0.01	1.34	14.6
DUP		6.28	15.70	0.08	0.05	0.11	0.051	0.14	37.6	17.6	0.80	198	1.05	0.01	1.34	14.5
Target Range - Lower Bound		5.98	14.90	<0.05	0.03	0.09	0.043	0.12	35.6	16.5	0.75	184	1.00	<0.01	1.19	13.6
Upper Bound		6.63	16.55	0.10	0.07	0.13	0.058	0.16	39.8	18.4	0.85	213	1.21	0.02	1.49	15.5
SBS017																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS027																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS045																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOD	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %	ME-MS41 Tl ppm
		10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
DUPLICATES																
WCS0122		450	1200	17.3	0.001	0.02	3.04	7.9	1.5	0.9	4.2	<0.01	0.18	8.4	0.096	0.46
DUP		460	1210	17.5	0.001	0.03	2.95	8.2	1.6	0.9	4.3	<0.01	0.17	8.7	0.098	0.47
Target Range - Lower Bound		420	1145	16.4	<0.001	<0.01	2.72	7.5	1.3	0.7	3.8	<0.01	0.16	7.9	0.087	0.41
Upper Bound		490	1265	18.4	0.002	0.04	3.27	8.6	1.8	1.1	4.7	0.02	0.19	9.2	0.107	0.52
SBS012		530	58.3	13.3	0.001	0.03	0.92	13.4	2.7	1.0	7.7	<0.01	0.02	9.5	0.072	0.14
DUP		520	59.7	13.6	0.001	0.03	0.79	13.1	2.5	1.0	7.8	<0.01	0.03	9.3	0.072	0.14
Target Range - Lower Bound		490	55.9	12.7	<0.001	0.02	0.74	12.5	2.3	0.8	7.2	<0.01	<0.01	8.7	0.063	0.11
Upper Bound		560	62.2	14.2	0.002	0.04	0.97	14.0	2.9	1.3	8.3	0.02	0.04	10.1	0.081	0.17
SBS017																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS027																
DUP																
Target Range - Lower Bound																
Upper Bound																
SBS045																
DUP																
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Upper Bound																

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



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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-TL43
		U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.05	1	0.05	0.05	2	0.5	0.001
DUPLICATES								
WCS0122		0.98	102	0.26	5.73	263	4.3	0.002
DUP		1.01	104	0.24	5.91	267	4.0	0.002
Target Range - Lower Bound		0.90	97	0.18	5.48	250	3.3	<0.001
Upper Bound		1.09	109	0.32	6.16	280	5.0	0.003
SBS012		2.92	194	<0.05	5.96	83	2.1	
DUP		2.99	191	<0.05	6.13	82	2.2	
Target Range - Lower Bound		2.76	182	<0.05	5.69	76	1.5	
Upper Bound		3.15	203	0.10	6.40	89	2.8	
SBS017								0.001
DUP								0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
SBS027								<0.001
DUP								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
SBS045								<0.001
DUP								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002

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CERTIFICATE COMMENTS													
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p>												
Applies to Method:	<p style="text-align: center;">ACCREDITATION COMMENTS</p> <p>NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist Au-TL43 ME-MS41</p>												
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 116 Delta Street, Geebung, QLD 4034, Australia</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-TL43</td> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">DRY-22</td> <td style="width: 33%;">LEV-01</td> </tr> <tr> <td>LOG-22</td> <td>ME-MS41</td> <td>PUL-31</td> <td>PUL-QC</td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Au-TL43	BAG-01	DRY-22	LEV-01	LOG-22	ME-MS41	PUL-31	PUL-QC	SPL-21	WEI-21		
Au-TL43	BAG-01	DRY-22	LEV-01										
LOG-22	ME-MS41	PUL-31	PUL-QC										
SPL-21	WEI-21												