



Australian Laboratory Services Pty. Ltd.
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Plus Appendix Pages
Finalized Date: 5-JUN-2018
Account: ROCMINTAS

QC CERTIFICATE BU18121728

Project: Elementos

This report is for 77 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 25-MAY-2018.

The following have access to data associated with this certificate:

CHRIS CREAGH

JIE YU

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Zn-OG46	Ore Grade Zn - Aqua Regia	ICP-AES
ME-XRF15d	Sulphide BM Conc. by XRF	XRF

To: ROCKWELL MINERALS (TASMANIA)
ATTN: CHRIS CREAGH
PO BOX 10555
ADELAIDE ST
BRISBANE QLD 4000

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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Sample Description	Method Analyte Units LOR	ME-XRF15d	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
		Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg
		%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.01	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
STANDARDS																
GBM306-12			4	0.43	10	<50	<5	10	0.23	7	23	4850	14300	3.06	<50	<5
GBM306-12			4	0.43	10	<50	<5	10	0.23	7	28	4930	14550	3.05	<50	<5
Target Range - Lower Bound			3	0.27	<10	<50	<5	<10	0.09	<5	10	4670	14150	2.90	<50	<5
Upper Bound			7	0.49	30	150	15	30	0.29	17	30	5390	15650	3.44	150	15
GBM306-12																
Target Range - Lower Bound																
Upper Bound																
GBM398-1			4	0.46	10	<50	<5	10	0.24	7	27	4920	14500	3.07	<50	<5
Target Range - Lower Bound			3	0.25	<10	<50	<5	<10	0.11	<5	14	4680	14100	2.80	<50	<5
Upper Bound			7	0.47	30	130	13	30	0.32	17	34	5400	15550	3.34	130	13
NCSDC35002		62.4														
NCSDC35002		62.5														
Target Range - Lower Bound		59.4														
Upper Bound		65.6														
NCSDC35009		0.97														
NCSDC35009		0.96														
Target Range - Lower Bound		0.87														
Upper Bound		0.99														
OGGeo08			19	2.40	120	390	<5	20	1.04	19	95	83	8020	4.96	<50	6
OGGeo08			19	2.53	120	410	<5	20	1.07	20	99	85	8190	5.07	<50	<5
OGGeo08			20	2.37	140	390	<5	10	1.04	20	103	87	8270	5.11	<50	<5
Target Range - Lower Bound			18	2.13	100	270	<5	<10	0.88	8	85	72	7970	4.86	<50	<5
Upper Bound			23	2.56	140	480	11	30	1.12	29	109	96	8810	5.70	110	11
OGGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS-132a																
Target Range - Lower Bound																
Upper Bound																



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		0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100	0.05
STANDARDS																
GBM306-12		0.13	<50	0.08	18200	<5	0.32	9290	130	26800	2.99	<10	<5	11	<100	0.09
GBM306-12		0.14	<50	0.08	18550	<5	0.32	9290	150	27000	3.00	10	<5	13	<100	0.09
Target Range - Lower Bound		<0.05	<50	<0.05	17750	<5	0.19	8840	<50	25200	2.77	<10	<5	<5	<100	<0.05
Upper Bound		0.20	150	0.15	20500	15	0.41	10200	220	29000	3.29	30	15	21	300	0.20
GBM306-12																
Target Range - Lower Bound																
Upper Bound																
GBM398-1		0.15	<50	0.08	18600	<5	0.32	9410	180	27200	2.99	<10	<5	18	<100	0.09
Target Range - Lower Bound		<0.05	<50	<0.05	17500	<5	0.20	8760	<50	24800	2.70	<10	<5	<5	<100	<0.05
Upper Bound		0.20	130	0.17	20200	13	0.41	10100	230	28600	3.22	30	13	20	300	0.19
NCSDC35002																
NCSDC35002																
Target Range - Lower Bound																
Upper Bound																
NCSDC35009																
NCSDC35009																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		1.12	<50	0.95	410	911	0.31	8600	830	7200	2.73	10	6	76	<100	0.34
OGGeo08		1.18	<50	0.97	420	935	0.44	8740	800	7360	2.84	10	6	81	<100	0.35
OGGeo08		1.11	<50	0.97	420	940	0.37	8850	840	7430	2.84	<10	6	77	<100	0.35
Target Range - Lower Bound		0.96	<50	0.83	350	864	0.21	8250	680	6720	2.55	<10	<5	55	<100	0.24
Upper Bound		1.22	130	1.07	480	1005	0.42	9520	910	7760	3.05	40	17	78	200	0.46
OGGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS-132a																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP41a TI ppm 50	ME-ICP41a U ppm 50	ME-ICP41a V ppm 5	ME-ICP41a W ppm 50	ME-ICP41a Zn ppm 10	Zn-OG46 Zn % 0.001	ME-ICP41a Sn ppm 50
STANDARDS								
GBM306-12		<50	<50	15	<50	20300		<50
GBM306-12		<50	<50	16	<50	20600		<50
Target Range - Lower Bound		<50	<50	7	<50	19150		<50
Upper Bound		150	150	27	150	22100		100
GBM306-12							2.02	
Target Range - Lower Bound							1.990	
Upper Bound							2.14	
GBM398-1		<50	<50	14	<50	20600		<50
Target Range - Lower Bound		<50	<50	<5	<50	18850		<50
Upper Bound		130	130	25	130	21700		100
NCSDC35002								
NCSDC35002								
Target Range - Lower Bound								
Upper Bound								
NCSDC35009								
NCSDC35009								
Target Range - Lower Bound								
Upper Bound								
OGGeo08		<50	<50	80	<50	7160		<50
OGGeo08		<50	<50	80	<50	7300		<50
OGGeo08		<50	<50	81	<50	7400		<50
Target Range - Lower Bound		<50	<50	72	<50	6700		<50
Upper Bound		100	110	96	100	7740		110
OGGeo08							0.734	
Target Range - Lower Bound							0.696	
Upper Bound							0.748	
OREAS-132a							4.98	
Target Range - Lower Bound							4.69	
Upper Bound							5.03	



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		0.01	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
BLANKS																
BLANK			<1	<0.05	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	<0.05	<50	<5
BLANK			<1	<0.05	10	<50	<5	10	<0.05	<5	<5	<5	<5	<0.05	<50	<5
BLANK			<1	<0.05	<10	<50	<5	10	<0.05	<5	<5	<5	<5	<0.05	<50	<5
Target Range - Lower Bound			<1	<0.05	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	<0.05	<50	<5
Upper Bound			2	0.10	20	100	10	20	0.10	10	10	10	10	0.10	100	10
BLANK		<0.01														
BLANK		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
130286		<0.01	<1	<0.05	<10	<50	<5	10	<0.05	<5	<5	6	5	0.32	<50	<5
DUP		0.01	<1	<0.05	10	<50	<5	10	<0.05	<5	<5	6	<5	0.33	<50	<5
Target Range - Lower Bound		<0.01	<1	<0.05	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	0.26	<50	<5
Upper Bound		0.02	2	0.10	20	100	10	20	0.10	10	10	10	10	0.39	100	10
130301			1	2.69	10	<50	<5	10	2.56	<5	14	68	589	14.05	<50	<5
DUP			1	2.69	10	<50	<5	10	2.58	<5	13	68	591	14.10	<50	<5
Target Range - Lower Bound			<1	2.54	<10	<50	<5	<10	2.43	<5	8	61	570	13.55	<50	<5
Upper Bound			2	2.84	20	100	10	20	2.71	10	19	75	610	14.60	100	10
130306		0.71														
DUP		0.71														
Target Range - Lower Bound		0.68														
Upper Bound		0.74														
130321			<1	2.32	20	70	5	<10	0.63	6	15	80	56	7.47	<50	<5
DUP			<1	2.50	20	80	6	20	0.66	5	18	84	59	7.68	<50	<5
Target Range - Lower Bound			<1	2.27	<10	<50	<5	<10	0.57	<5	11	74	51	7.26	<50	<5
Upper Bound			2	2.55	30	100	10	20	0.72	10	22	90	64	7.89	100	10



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		0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100	0.05
BLANKS																
BLANK		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	10	<0.05	<10	<5	<5	<100	<0.05
BLANK		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	10	<0.05	<10	<5	<5	<100	<0.05
BLANK		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	20	<0.05	<10	<5	<5	<100	<0.05
Target Range - Lower Bound		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100	<0.05
Upper Bound		0.10	100	0.10	60	10	0.10	10	100	20	0.10	20	10	10	200	0.10
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
130286		<0.05	<50	<0.05	30	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100	<0.05
DUP		<0.05	<50	<0.05	30	<5	<0.05	<5	<50	20	<0.05	<10	<5	<5	<100	<0.05
Target Range - Lower Bound		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100	<0.05
Upper Bound		0.10	100	0.10	60	10	0.10	10	100	20	0.10	20	10	10	200	0.10
130301		0.12	<50	0.89	2890	<5	<0.05	50	400	40	3.19	<10	8	14	<100	<0.05
DUP		0.12	<50	0.89	2920	<5	<0.05	46	370	50	3.16	<10	8	15	<100	<0.05
Target Range - Lower Bound		0.07	<50	0.81	2770	<5	<0.05	41	320	30	3.01	<10	<5	9	<100	<0.05
Upper Bound		0.17	100	0.97	3040	10	0.10	55	450	60	3.34	20	10	20	200	0.10
130306																
DUP																
Target Range - Lower Bound																
Upper Bound																
130321		0.53	<50	1.11	3360	<5	<0.05	62	450	60	0.18	<10	12	16	<100	<0.05
DUP		0.57	<50	1.17	3480	<5	<0.05	65	470	70	0.20	<10	13	15	<100	<0.05
Target Range - Lower Bound		0.48	<50	1.05	3270	<5	<0.05	56	390	50	0.13	<10	7	10	<100	<0.05
Upper Bound		0.62	100	1.23	3570	10	0.10	71	530	80	0.25	20	18	21	200	0.10



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Sample Description	Method Analyte Units LOR	ME-ICP41a Ti ppm 50	ME-ICP41a U ppm 50	ME-ICP41a V ppm 5	ME-ICP41a W ppm 50	ME-ICP41a Zn ppm 10	Zn-OG46 Zn % 0.001	ME-ICP41a Sn ppm 50
BLANKS								
BLANK		<50	<50	<5	<50	<10		<50
BLANK		<50	<50	<5	<50	<10		<50
BLANK		<50	<50	<5	<50	<10		<50
Target Range - Lower Bound		<50	<50	<5	<50	<10		<50
Upper Bound		100	100	10	100	20		100
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK							<0.001	
Target Range - Lower Bound							<0.001	
Upper Bound							0.002	
DUPLICATES								
130286		<50	<50	<5	<50	<10		<50
DUP		<50	<50	<5	<50	<10		<50
Target Range - Lower Bound		<50	<50	<5	<50	<10		<50
Upper Bound		100	100	10	100	20		100
130301		<50	<50	50	<50	220		240
DUP		<50	<50	49	<50	220		240
Target Range - Lower Bound		<50	<50	43	<50	200		180
Upper Bound		100	100	56	100	240		300
130306								
DUP								
Target Range - Lower Bound								
Upper Bound								
130321		<50	<50	66	<50	1180		50
DUP		<50	<50	70	<50	1230		<50
Target Range - Lower Bound		<50	<50	61	<50	1150		<50
Upper Bound		100	100	75	100	1260		100



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		0.01	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
130329 DUP		0.61 0.59														
Target Range - Lower Bound		0.58														
Upper Bound		0.63														
130336 DUP			1 1	1.75 1.75	10 <10	<50 <50	23 23	20 20	2.02 2.06	140 141	8 6	49 49	87 90	20.4 20.6	<50 <50	6 <5
Target Range - Lower Bound			<1	1.64	<10	<50	17	<10	1.92	131	<5	42	81	19.75	<50	<5
Upper Bound			2	1.86	20	100	29	30	2.16	150	10	56	96	21.3	100	10
130349 DUP		<0.01 0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
130353 DUP			<1 <1	2.12 2.08	90 80	50 <50	<5 <5	10 20	0.40 0.39	<5 <5	51 46	37 39	26 24	6.73 6.65	<50 <50	<5 <5
Target Range - Lower Bound			<1	1.98	70	<50	<5	<10	0.33	<5	42	32	19	6.40	<50	<5
Upper Bound			2	2.22	100	100	10	20	0.46	10	55	44	31	6.98	100	10



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		0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100	0.05
130329 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
130336 DUP Target Range - Lower Bound Upper Bound		0.25 0.25 0.19 0.31	<50 <50 <50 100	0.82 0.82 0.74 0.90	14600 14850 14150 15300	<5 <5 <5 10	<0.05 <0.05 <0.05 0.10	25 25 19 31	640 580 540 680	110 90 90 110	2.06 2.09 1.95 2.20	20 <10 <10 20	7 7 <5 10	10 10 <5 15	<100 <100 <100 200	<0.05 <0.05 <0.05 0.10
130349 DUP Target Range - Lower Bound Upper Bound																
130353 DUP Target Range - Lower Bound Upper Bound		0.38 0.37 0.31 0.44	<50 <50 <50 100	0.97 0.96 0.88 1.05	4000 3900 3780 4120	<5 <5 <5 10	<0.05 <0.05 <0.05 0.10	79 80 72 87	680 730 630 780	50 50 40 60	0.22 0.26 0.18 0.30	<10 <10 <10 20	7 7 <5 10	23 24 18 29	<100 <100 <100 200	<0.05 <0.05 <0.05 0.10



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Sample Description	Method Analyte Units LOR	ME-ICP41a Ti ppm 50	ME-ICP41a U ppm 50	ME-ICP41a V ppm 5	ME-ICP41a W ppm 50	ME-ICP41a Zn ppm 10	Zn-OG46 Zn % 0.001	ME-ICP41a Sn ppm 50
130329 DUP Target Range - Lower Bound Upper Bound		DUPLICATES						
130336 DUP Target Range - Lower Bound Upper Bound		<50 <50 <50 100	<50 <50 <50 100	37 38 31 44	<50 <50 <50 100	24300 24800 23700 25400		60 70 <50 100
130349 DUP Target Range - Lower Bound Upper Bound								
130353 DUP Target Range - Lower Bound Upper Bound		<50 <50 <50 100	<50 <50 <50 100	27 25 20 32	<50 <50 <50 100	1270 1240 1200 1310		<50 <50 <50 100



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Finalized Date: 5-JUN-2018
Account: ROCMINTAS

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	CERTIFICATE COMMENTS
	<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. Technical Signatory is Samantha Profke,ICPAES Supervising Chemist</p>
Applies to Method:	ME-OG46 Zn-OG46
	<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>
Applies to Method:	ME-ICP41a ME-OG46 Zn-OG46
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU-21 LEV-01 LOG-22 ME-XRF15d PUL-31b PUL-QC WEI-21