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LEVEL 4

96-100 ALBERT ROAD

SOUTH MELBOURNE VIC 3205

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Plus Appendix Pages

Finalized Date: 3-OCT-2024

Account: GEORGRES

QC CERTIFICATE BU24266662

Project: EL82023

P.O. No.: GR20240925

This report is for 75 samples of Drill Core submitted to our lab in Burnie, TAS, Australia on 25-SEP-2024.

The following have access to data associated with this certificate:

JONATHAN DAVIS

STEVE SWATTON

SEAN WESTBROOK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-21	Raw Sample in a new bag
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-36f	Fine crushing - 85% <3.15mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-23j	Pulv 0.75kg Sample - Rotary Split/Retain
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61r	4A multi-element ICP-MS + REE	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	

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:

James Hepburn, Laboratory Manager, Burnie



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	Au-AA25	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		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
STANDARDS															
CT-22		2.54													
CT-22		2.70													
Target Range - Lower Bound		2.42													
Upper Bound		2.74													
EMOG-17															
Target Range - Lower Bound															
Upper Bound															
EMOG-17		66.6	4.52	556	710	1.74	5.62	1.90	20.6	46.8	732	52	7.17	8170	4.75
Target Range - Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GBM321-8		2.78	7.05	54.5	1090	1.39	1.26	3.74	1.67	104.0	25.3	133	3.57	3510	5.33
GBM321-8		3.00	7.37	60.9	1140	1.48	1.12	3.95	1.79	112.5	29.1	140	4.01	3630	5.71
Target Range - Lower Bound		2.69	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380	4.98
Upper Bound		3.31	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890	6.10
GBM398-1															
Target Range - Lower Bound															
Upper Bound															
MRCA-21		8.02	7.31	18.3	1220	2.52	1.42	1.77	2.16	93.8	28.8	42	11.10	926	3.25
MRCA-21		8.35	7.85	20.1	1310	2.73	1.81	1.88	2.25	104.5	31.9	46	12.35	954	3.47
Target Range - Lower Bound		7.57	6.83	17.2	1050	2.35	1.39	1.58	1.99	92.7	28.0	38	10.75	877	3.05
Upper Bound		9.27	8.37	21.4	1440	2.99	1.73	1.96	2.47	113.5	34.4	49	13.25	1010	3.75
OREAS 139															
Target Range - Lower Bound															
Upper Bound															
OREAS 240b		5.72													
OREAS 240b		5.93													
Target Range - Lower Bound		5.30													
Upper Bound		6.00													
OREAS 297		17.90													
OREAS 297		19.15													
Target Range - Lower Bound		16.75													
Upper Bound		18.90													
OREAS 507		1.40	7.63	48.4	1090	2.41	1.72	1.80	0.75	73.0	8.1	45	10.95	6170	3.09
Target Range - Lower Bound		1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780	2.81
Upper Bound		1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660	3.45
OREAS L11		0.30													
OREAS L11		0.32													
Target Range - Lower Bound		0.28													
Upper Bound		0.33													



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Project: EL82023

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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		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
		0.5													
STANDARDS															
CT-22															
CT-22															
Target Range - Lower Bound															
Upper Bound															
EMOG-17															
Target Range - Lower Bound															
Upper Bound															
EMOG-17		12.35	0.19	1.8	0.892	1.61	25.0	26.2	0.93	716	1055	1.08	14.6	7360	780
Target Range - Lower Bound		10.75	<0.05	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		13.25	0.25	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
GBM321-8		19.45	0.12	3.4	0.075	2.05	53.4	10.9	1.77	770	61.0	2.10	10.0	2200	940
GBM321-8		21.9	0.20	3.8	0.078	2.20	57.2	11.5	1.85	806	68.2	2.21	11.6	2280	1000
Target Range - Lower Bound		18.65	<0.05	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	880
Upper Bound		22.9	0.24	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	1100
GBM398-1															
Target Range - Lower Bound															
Upper Bound															
MRCA-21		20.0	0.17	1.8	0.114	2.74	49.8	57.2	0.69	7800	24.1	1.92	13.9	912	830
MRCA-21		21.0	0.19	1.9	0.122	2.98	56.0	62.3	0.75	8210	25.7	2.05	15.7	962	900
Target Range - Lower Bound		18.75	<0.05	1.5	0.103	2.58	49.0	54.7	0.65	7330	22.5	1.79	12.9	849	770
Upper Bound		23.0	0.23	2.1	0.137	3.18	61.0	67.3	0.82	8970	27.7	2.21	15.9	1040	970
OREAS 139															
Target Range - Lower Bound															
Upper Bound															
OREAS 240b															
OREAS 240b															
Target Range - Lower Bound															
Upper Bound															
OREAS 297															
OREAS 297															
Target Range - Lower Bound															
Upper Bound															
OREAS 507		20.7	0.18	2.1	0.144	3.08	37.5	49.5	0.70	352	117.0	2.07	13.0	17.0	850
Target Range - Lower Bound		18.20	0.07	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770
Upper Bound		22.4	0.31	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970
OREAS L11															
OREAS L11															
Target Range - Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1
STANDARDS																
CT-22																
CT-22																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		110.0	0.310	3.11	753	8.2	6	2.6	199.0	0.89	1.30	10.95	0.309	2.07	3.1	71
Target Range - Lower Bound		98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.285	1.89	2.8	67
Upper Bound		121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.359	2.61	3.7	84
GBM321-8		158.0	<0.002	0.32	1.92	18.1	<1	3.0	281	0.71	<0.05	17.70	0.637	1.18	2.3	133
GBM321-8		180.0	<0.002	0.34	1.73	20.6	<1	3.3	300	0.76	0.07	19.10	0.688	1.25	2.4	145
Target Range - Lower Bound		153.0	<0.002	0.31	1.40	16.7	<1	2.7	258	0.64	<0.05	16.00	0.591	1.01	2.0	123
Upper Bound		187.0	0.005	0.41	2.01	20.7	2	3.9	316	0.92	0.15	19.55	0.733	1.41	2.6	153
GBM398-1																
Target Range - Lower Bound																
Upper Bound																
MRCA-21		158.0	0.013	0.42	26.0	8.8	1	4.9	166.5	1.05	0.11	14.05	0.349	1.10	3.8	60
MRCA-21		175.0	0.013	0.45	27.5	9.4	1	5.1	180.0	1.18	0.13	16.50	0.383	1.16	4.1	66
Target Range - Lower Bound		154.5	0.008	0.38	22.8	8.0	<1	4.3	156.5	0.98	<0.05	13.95	0.328	0.97	3.7	57
Upper Bound		189.5	0.018	0.49	31.0	10.0	3	5.7	191.5	1.30	0.23	17.05	0.412	1.37	4.8	71
OREAS 139																
Target Range - Lower Bound																
Upper Bound																
OREAS 240b																
OREAS 240b																
Target Range - Lower Bound																
Upper Bound																
OREAS 297																
OREAS 297																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		168.5	0.092	0.73	5.20	8.9	4	5.0	217	1.07	0.64	14.05	0.344	0.94	3.7	62
Target Range - Lower Bound		146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6	58
Upper Bound		179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6	73
OREAS L11																
OREAS L11																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
STANDARDS															
CT-22															
CT-22															
Target Range – Lower Bound															
Upper Bound															
EMOG-17															
Target Range – Lower Bound															
Upper Bound															
EMOG-17		4.1	15.6	7240	62.8	2.77	1.59	0.87	3.16	0.57	0.22	21.1	5.62	3.89	0.50
Target Range – Lower Bound		3.3	14.3	6800	55.6	2.53	1.41	0.71	2.85	0.48	0.19	17.8	4.65	3.40	0.41
Upper Bound		4.7	17.7	8320	76.4	3.53	1.97	1.03	3.97	0.68	0.27	24.3	6.37	4.66	0.57
GBM321-8		3.4	35.7	1040	129.0	6.71	3.80	1.81	7.35	1.33	0.48	42.7	11.50	8.06	1.15
GBM321-8		3.7	39.1	1105	152.5	6.89	3.82	1.87	7.53	1.42	0.49	45.7	12.80	8.46	1.19
Target Range – Lower Bound		2.9	33.7	961	117.5	5.70	3.26	1.57	6.49	1.14	0.42	36.2	9.83	7.02	0.99
Upper Bound		4.1	41.4	1180	160.5	7.82	4.48	2.19	8.89	1.56	0.60	49.2	13.35	9.56	1.37
GBM398-1															
Target Range – Lower Bound															
Upper Bound															
MRCA-21		11.5	16.8	809	58.7	3.81	1.45	1.47	5.82	0.62	0.17	38.4	10.25	7.47	0.80
MRCA-21		11.0	18.0	864	64.4	4.15	1.54	1.62	6.41	0.67	0.18	43.4	12.10	8.07	0.90
Target Range – Lower Bound		9.3	15.6	740	50.5	3.63	1.32	1.33	5.70	0.54	0.14	35.4	9.83	6.97	0.70
Upper Bound		12.9	19.2	908	69.5	5.03	1.86	1.87	7.84	0.76	0.21	48.2	13.35	9.49	0.97
OREAS 139															
Target Range – Lower Bound															
Upper Bound															
OREAS 240b															
OREAS 240b															
Target Range – Lower Bound															
Upper Bound															
OREAS 297															
OREAS 297															
Target Range – Lower Bound															
Upper Bound															
OREAS 507		10.7	15.7	162	68.3	3.69	1.46	1.38	5.46	0.59	0.18	35.0	8.92	6.91	0.78
Target Range – Lower Bound		7.8	13.9	143	53.9	3.15	1.19	1.10	5.03	0.52	0.14	28.7	7.36	5.87	0.66
Upper Bound		10.8	17.2	179	74.1	4.39	1.67	1.56	6.93	0.72	0.22	39.1	10.00	8.01	0.92
OREAS L11															
OREAS L11															
Target Range – Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r		Cu-OG62	
		Yb	Cu		
		ppm	%		
		0.03	0.001		
STANDARDS					
CT-22					
CT-22					
Target Range - Lower Bound					
Upper Bound					
EMOG-17				0.825	
Target Range - Lower Bound				0.803	
Upper Bound				0.863	
EMOG-17		1.52			
Target Range - Lower Bound		1.30			
Upper Bound		1.82			
GBM321-8		3.30			
GBM321-8		3.39			
Target Range - Lower Bound		2.83			
Upper Bound		3.91			
GBM398-1				1.440	
Target Range - Lower Bound				1.430	
Upper Bound				1.535	
MRCA-21		1.13			
MRCA-21		1.19			
Target Range - Lower Bound		1.12			
Upper Bound		1.58			
OREAS 139				0.027	
Target Range - Lower Bound				0.025	
Upper Bound				0.029	
OREAS 240b					
OREAS 240b					
Target Range - Lower Bound					
Upper Bound					
OREAS 297					
OREAS 297					
Target Range - Lower Bound					
Upper Bound					
OREAS 507		1.26			
Target Range - Lower Bound		1.00			
Upper Bound		1.42			
OREAS L11					
OREAS L11					
Target Range - Lower Bound					
Upper Bound					



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01
BLANKS																
BLANK		<0.01														
BLANK		<0.01														
BLANK		<0.01														
BLANK		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	<1	<0.05	0.3	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.2	<0.01
Target Range - Lower Bound			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound			0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02
DUPLICATES																
87594		0.02	0.39	6.50	8.4	2000	1.41	4.60	0.25	<0.02	40.3	27.6	9	2.14	176.0	7.12
DUP		0.02	0.37	6.45	7.7	1970	1.40	4.46	0.25	<0.02	38.9	26.4	9	2.09	175.5	7.04
Target Range - Lower Bound		<0.01	0.35	6.14	7.4	1830	1.28	4.29	0.23	<0.02	37.6	25.6	8	1.96	169.5	6.72
Upper Bound		0.03	0.41	6.81	8.7	2140	1.53	4.77	0.27	0.04	41.6	28.5	10	2.27	182.0	7.44
87615		0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
87630			0.73	5.64	3.7	2480	0.98	2.85	0.93	0.17	63.9	24.0	5	0.86	1340	5.52
DUP			0.74	5.65	3.7	2470	0.98	2.75	0.93	0.16	62.2	22.2	6	0.82	1330	5.54
Target Range - Lower Bound			0.69	5.35	3.3	2280	0.88	2.65	0.87	0.14	59.9	21.8	4	0.75	1290	5.24
Upper Bound			0.78	5.94	4.1	2670	1.08	2.95	0.99	0.19	66.2	24.4	7	0.93	1380	5.82
87636		0.03														
DUP		0.04														
Target Range - Lower Bound		0.02														
Upper Bound		0.05														



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5
BLANK		BLANKS														
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<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	<0.5
BLANK		<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	<0.5
BLANK		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	<0.5
Target Range - Lower Bound		<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	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0
DUPLICATES																
87594		18.40	0.07	4.8	0.307	4.48	17.9	11.8	0.49	919	1.84	0.05	17.4	2.9	250	16.1
DUP		18.00	0.08	4.7	0.294	4.42	17.7	12.2	0.49	914	1.64	0.06	15.2	2.7	250	15.3
Target Range - Lower Bound		17.25	<0.05	4.4	0.280	4.22	16.4	11.2	0.46	866	1.60	0.04	15.4	2.5	230	14.4
Upper Bound		19.15	0.10	5.1	0.321	4.68	19.2	12.8	0.52	967	1.88	0.07	17.2	3.1	270	17.0
87615																
DUP																
Target Range - Lower Bound																
Upper Bound																
87630		15.85	0.20	4.5	0.260	5.34	30.2	8.0	0.58	2990	3.43	0.13	11.8	4.4	160	42.4
DUP		15.20	0.17	4.3	0.264	5.38	29.7	7.9	0.58	2980	3.33	0.13	11.3	4.5	160	40.6
Target Range - Lower Bound		14.70	0.12	4.1	0.244	5.08	28.0	7.4	0.54	2830	3.16	0.11	10.9	4.0	140	38.9
Upper Bound		16.35	0.25	4.7	0.280	5.64	31.9	8.5	0.62	3140	3.60	0.15	12.2	4.9	180	44.1
87636																
DUP																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS BU24266662

Sample Description	Method Analyte Units LOD	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1
BLANK		BLANKS														
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	5	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2
DUPLICATES																
87594		153.0	<0.002	0.25	2.66	8.1	<1	10.9	44.6	1.22	0.07	21.5	0.186	0.66	7.4	21
DUP		150.0	0.002	0.24	2.56	8.1	<1	10.8	43.7	1.12	0.07	20.6	0.184	0.62	7.1	21
Target Range - Lower Bound		144.0	<0.002	0.22	2.36	7.6	<1	10.1	41.7	1.06	<0.05	20.00	0.171	0.57	6.8	19
Upper Bound		159.0	0.004	0.27	2.86	8.6	2	11.6	46.6	1.28	0.10	22.1	0.199	0.71	7.7	23
87615																
DUP																
Target Range - Lower Bound																
Upper Bound																
87630		109.0	<0.002	0.24	1.82	6.2	<1	3.0	82.1	0.87	0.26	19.40	0.133	0.54	11.0	9
DUP		112.5	<0.002	0.24	1.74	5.9	<1	2.6	78.2	0.83	0.26	19.15	0.134	0.53	10.7	9
Target Range - Lower Bound		105.0	<0.002	0.22	1.60	5.6	<1	2.5	75.9	0.76	0.20	18.30	0.122	0.47	10.2	8
Upper Bound		116.5	0.004	0.26	1.96	6.5	2	3.1	84.4	0.94	0.32	20.2	0.145	0.60	11.5	10
87636																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01
BLANK		<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01
BLANK		<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5	<0.05	<0.03	<0.03	<0.05	<0.01	<0.01	<0.1	<0.03	<0.03	<0.01	<0.01
Upper Bound		0.2	0.2	4	1.0	0.10	0.06	0.06	0.10	0.02	0.02	0.2	0.06	0.06	0.02	0.02
DUPLICATES																
87594		45.4	34.7	174	155.5	5.04	4.12	0.88	4.40	1.26	0.66	18.1	4.73	3.90	0.85	0.64
DUP		44.5	32.5	172	152.5	5.07	3.70	0.88	4.83	1.23	0.69	17.3	4.57	3.83	0.88	0.63
Target Range - Lower Bound		41.5	31.8	162	146.0	4.63	3.59	0.78	4.22	1.14	0.61	16.3	4.27	3.55	0.79	0.58
Upper Bound		48.4	35.4	184	162.0	5.48	4.23	0.98	5.01	1.35	0.74	19.1	5.03	4.18	0.94	0.69
87615																
DUP																
Target Range - Lower Bound																
Upper Bound																
87630																
DUP		40.7	31.4	191	141.5	5.41	4.04	0.86	4.01	1.15	0.79	28.4	7.62	5.20	0.66	0.66
		39.7	32.7	191	134.5	4.55	3.92	0.86	4.02	1.10	0.77	27.1	7.24	5.08	0.65	0.68
Target Range - Lower Bound		37.1	30.3	179	130.5	4.56	3.65	0.77	3.66	1.03	0.71	25.6	6.84	4.72	0.60	0.61
Upper Bound		43.3	33.8	203	145.5	5.40	4.31	0.95	4.37	1.22	0.85	29.9	8.02	5.56	0.71	0.73
87636																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	Au-AA25	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.01
87657		DUPLICATES														
DUP		<0.01														
Target Range – Lower Bound		<0.01														
Upper Bound		0.02														
87659		<0.01	0.04	<0.2	60	<0.05	0.01	20.8	<0.02	0.59	0.5	1	<0.05	1.4	0.04	
DUP		<0.01	0.03	<0.2	70	<0.05	0.01	20.5	<0.02	0.37	0.5	2	<0.05	2.3	0.04	
Target Range – Lower Bound		<0.01	0.02	<0.2	50	<0.05	<0.01	19.60	<0.02	0.45	0.4	<1	<0.05	1.6	0.03	
Upper Bound		0.02	0.05	0.4	80	0.10	0.02	21.7	0.04	0.51	0.6	2	0.10	2.1	0.05	
		PREP DUPLICATES														
87640		0.04	0.52	6.05	3.1	3030	1.23	0.54	0.35	0.19	120.5	15.5	5	1.35	1910	4.99
87640 PREP DUP		0.03	0.58	6.24	3.5	3110	1.29	0.71	0.37	0.23	123.5	17.5	6	1.36	2320	5.10



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Sample Description	Method Analyte Units LOD	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01	ME-MS61r Nb ppm 0.1	ME-MS61r Ni ppm 0.2	ME-MS61r P ppm 10	ME-MS61r Pb ppm 0.5
87657 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
87659 DUP Target Range – Lower Bound Upper Bound		0.08 <0.05 <0.05 0.10	<0.05 <0.05 <0.05 0.10	<0.1 <0.1 <0.1 0.2	<0.005 <0.005 <0.005 0.010	0.01 0.01 <0.01 0.02	<0.5 <0.5 <0.5 1.0	1.2 1.0 0.8 1.4	12.90 12.75 12.15 13.50	30 26 22 34	0.08 0.27 0.12 0.23	0.01 0.01 <0.01 0.02	0.1 <0.1 <0.1 0.2	0.4 1.5 0.7 1.2	110 100 90 120	0.9 0.8 <0.5 1.0
87640 87640 PREP DUP		PREP DUPLICATES														
		19.40 19.40	0.20 0.16	4.8 4.8	0.267 0.277	5.71 5.28	58.7 57.3	6.4 6.7	0.44 0.46	1225 1255	1.73 2.07	0.10 0.10	11.4 11.9	4.6 4.4	190 210	17.5 18.8



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Sample Description	Method Analyte Units LOD	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1	ME-MS61r V ppm 1
87657 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
87659 DUP Target Range – Lower Bound Upper Bound		0.3 0.2 <0.1 0.4	<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	<0.05 <0.05 <0.05 0.10	0.2 0.2 <0.1 0.3	<1 <1 <1 2	<0.2 <0.2 <0.2 0.4	27.3 26.0 25.1 28.2	<0.05 <0.05 <0.05 0.10	<0.05 <0.05 <0.05 0.10	0.06 0.04 0.04 0.06	<0.005 <0.005 <0.005 0.010	<0.02 <0.02 <0.02 0.04	0.6 0.6 0.5 0.7	1 1 <1 2
87640 87640 PREP DUP		PREP DUPLICATES														
		104.0 117.0	0.002 <0.002	0.27 0.33	2.35 2.46	6.6 6.9	<1 <1	3.5 3.7	64.0 64.5	0.79 0.76	0.09 <0.05	19.30 19.85	0.146 0.156	0.62 0.63	7.7 8.4	11 11



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Sample Description	Method Analyte Units LOD	ME-MS61r W ppm 0.1	ME-MS61r Y ppm 0.1	ME-MS61r Zn ppm 2	ME-MS61r Zr ppm 0.5	ME-MS61r Dy ppm 0.05	ME-MS61r Er ppm 0.03	ME-MS61r Eu ppm 0.03	ME-MS61r Gd ppm 0.05	ME-MS61r Ho ppm 0.01	ME-MS61r Lu ppm 0.01	ME-MS61r Nd ppm 0.1	ME-MS61r Pr ppm 0.03	ME-MS61r Sm ppm 0.03	ME-MS61r Tb ppm 0.01	ME-MS61r Tm ppm 0.01
87657 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
87659 DUP Target Range - Lower Bound Upper Bound		0.1 0.1 <0.1 0.2	0.6 0.6 0.5 0.7	2 <2 <2 4	0.5 0.5 <0.5 1.0	0.05 <0.05 <0.05 0.10	0.04 0.04 <0.03 0.06	<0.03 <0.03 <0.03 0.06	0.05 <0.05 <0.05 0.10	0.01 0.01 <0.01 0.02	<0.01 0.01 <0.01 0.02	0.3 0.1 <0.1 0.3	0.06 0.04 <0.03 0.06	0.06 0.04 <0.03 0.06	0.01 0.01 <0.01 0.02	0.01 <0.01 <0.01 0.02
87640 87640 PREP DUP		PREP DUPLICATES														
		50.3 48.9	23.6 24.2	202 208	151.0 157.0	4.34 4.35	3.04 3.30	1.21 1.19	5.83 6.08	0.92 0.94	0.62 0.63	50.1 49.1	14.10 14.00	9.03 9.07	0.82 0.83	0.49 0.49

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Sample Description	Method Analyte Units LOD	ME-MS61r Yb ppm 0.03	Cu-OG62 Cu % 0.001
87657 DUP Target Range - Lower Bound Upper Bound		DUPLICATES	
87659 DUP Target Range - Lower Bound Upper Bound		0.04 0.03 <0.03 0.06	
87640 87640 PREP DUP		PREP DUPLICATES	
		3.69 3.88	



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	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61r
	ACCREDITATION COMMENTS
Applies to Method:	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: Christopher Snowdon, ICPAES Reporting Chemist Cu-OG62 ME-OG62
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia Cu-OG62 ME-MS61r ME-OG62
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. Au-AA25 BAG-01 BAG-21 CRU-36f CRU-QC LEV-01 LOG-22 LOG-24 PUL-23j PUL-QC SPL-22Y WEI-21