



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 818.

To: BLUESTONE MINES TASMANIA JOINT VENTURE PTY LTD

PO BOX 20

ZEEHAN TAS 7469

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Plus Appendix Pages

Finalized Date: 27-FEB-2025

Account: BLUMINJV

QC CERTIFICATE AD25025627

Project: EDGI_18

This report is for 112 samples of Drill Core submitted to our lab in Burnie, TAS, Australia on 7-JAN-2025.

The following have access to data associated with this certificate:

ESTHER LITTLE
BEN RIDGERS

MITCHELL PETERSEN

DECLAN RADFORD

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL-QC	Pulverizing QC Test
SPL-21	Split sample – riffle splitter
OA-HSUL10	Handling of High Sulphide Samples
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-21	Crush entire sample
PUL-23	Pulv Sample – Split/Retain
BAG-01	Bulk Master for Storage
BAG-21	Raw Sample in a new bag

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30q FA ICP-AES Finish	ICP-AES
ME-XRF15b	Various elements in ores by fusion XRF	XRF
ME-MS61r	4A multi-element ICP-MS + REE	

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 AD25025627

Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	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															
AMIS0448		1.300													
AMIS0448		1.350													
Target Range - Lower Bound		1.230													
Upper Bound		1.390													
BEG-24		2.51													
BEG-24		2.57													
Target Range - Lower Bound		2.37													
Upper Bound		2.67													
EMOG-17				66.5	4.60	579	600	1.84	5.53	1.91	19.95	45.5	758	55	7.16
EMOG-17				65.3	4.42	555	180	1.77	5.75	1.84	20.7	46.9	727	54	7.19
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12
GBM321-8				2.76	7.14	56.3	1070	1.43	1.23	3.81	1.64	102.5	26.5	139	3.61
GBM321-8				2.98	7.20	55.4	1090	1.46	1.08	3.83	1.70	111.0	26.5	144	3.91
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
Upper Bound				3.31	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32
ISA-24		0.317													
ISA-24		0.332													
ISA-24		0.320													
ISA-24		0.317													
ISA-24		0.316													
Target Range - Lower Bound		0.296													
Upper Bound		0.336													
MRCA-21				8.33	7.42	18.6	1240	2.66	1.47	1.78	2.30	111.5	31.7	41	12.25
MRCA-21				7.98	7.57	18.9	1210	2.57	1.53	1.79	2.09	99.7	30.0	45	11.65
MRCA-21				8.45	7.73	19.3	1260	2.73	1.58	1.84	2.19	99.0	30.5	44	12.50
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
Upper Bound				9.27	8.37	21.4	1440	2.99	1.73	1.96	2.47	113.5	34.4	49	13.25
NCSDC35011			0.759												
NCSDC35011			0.748												
NCSDC35011			0.750												
Target Range - Lower Bound			0.695												
Upper Bound			0.779												



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QC CERTIFICATE OF ANALYSIS AD25025627

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	ME-MS61r
		Fe	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
		0.01	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
STANDARDS																
AMIS0448																
AMIS0448																
Target Range – Lower Bound																
Upper Bound																
BEG-24																
BEG-24																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		4.87	11.45	0.12	1.9	0.886	1.64	25.2	27.6	0.95	760	1110	1.10	14.8	7600	810
EMOG-17		4.67	11.85	0.16	1.8	0.905	1.59	24.4	26.3	0.91	710	1055	1.06	14.8	7350	770
Target Range – Lower Bound		4.42	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		5.42	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		5.59	19.30	0.22	3.5	0.067	2.10	53.8	11.2	1.79	807	62.0	2.13	10.5	2300	970
GBM321-8		5.58	20.2	0.21	3.7	0.075	2.12	57.7	11.4	1.88	834	64.7	2.21	11.5	2260	990
Target Range – Lower Bound		4.98	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		6.10	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
ISA-24																
ISA-24																
ISA-24																
ISA-24																
ISA-24																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		3.33	20.4	0.17	3.3	0.124	2.78	58.8	59.2	0.72	8020	23.8	1.92	15.2	916	860
MRCA-21		3.34	19.50	0.20	1.7	0.114	2.85	52.0	60.1	0.72	8110	23.8	1.97	14.7	947	860
MRCA-21		3.41	20.5	0.18	1.8	0.123	2.93	52.6	62.3	0.74	8330	25.3	2.03	15.8	965	900
Target Range – Lower Bound		3.05	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		3.75	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
NCSDC35011																
NCSDC35011																
NCSDC35011																
Target Range – Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD25025627

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
STANDARDS															
AMIS0448															
AMIS0448															
Target Range – Lower Bound															
Upper Bound															
BEG-24															
BEG-24															
Target Range – Lower Bound															
Upper Bound															
EMOG-17		7130	105.0	0.298	3.27	808	7.6	7	2.9	201	0.89	1.30	11.25	0.320	3.2
EMOG-17		6930	108.5	0.293	3.05	742	7.9	6	2.5	193.0	0.91	1.30	11.05	0.305	3.0
Target Range – Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.285	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.359	3.7
GBM321-8		2050	168.5	<0.002	0.29	1.57	18.9	1	3.3	291	0.69	<0.05	18.00	0.658	2.1
GBM321-8		2050	174.5	0.002	0.42	1.59	18.9	1	3.3	294	0.76	0.06	18.40	0.669	2.4
Target Range – Lower Bound		1845	153.0	<0.002	0.31	1.40	16.7	<1	2.7	258	0.64	<0.05	16.00	0.591	2.0
Upper Bound		2250	187.0	0.005	0.41	2.01	20.7	2	3.9	316	0.92	0.15	19.55	0.733	2.6
ISA-24															
ISA-24															
ISA-24															
ISA-24															
ISA-24															
Target Range – Lower Bound															
Upper Bound															
MRCA-21		888	176.0	0.012	0.43	25.6	9.1	1	5.0	171.5	1.08	0.11	16.45	0.356	4.3
MRCA-21		916	163.5	0.012	0.43	26.4	8.8	1	4.6	170.5	1.02	0.15	15.70	0.358	4.5
MRCA-21		929	169.5	0.013	0.45	27.1	8.6	1	5.2	179.0	1.14	0.14	14.25	0.376	3.9
Target Range – Lower Bound		816	154.5	0.008	0.38	22.8	8.0	<1	4.3	156.5	0.98	<0.05	13.95	0.328	3.7
Upper Bound		998	189.5	0.018	0.49	31.0	10.0	3	5.7	191.5	1.30	0.23	17.05	0.412	4.8
NCSDC35011															
NCSDC35011															
NCSDC35011															
Target Range – Lower Bound															
Upper Bound															



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QC CERTIFICATE OF ANALYSIS AD25025627

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	ME-MS61r
		V	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	ppm
		1	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																
AMIS0448																
AMIS0448																
Target Range – Lower Bound																
Upper Bound																
BEG-24																
BEG-24																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		74	3.5	16.2	7400	54.6	2.64	1.47	0.81	2.99	0.54	0.22	19.6	5.47	3.82	0.45
EMOG-17		68	3.5	16.2	7270	56.3	2.70	1.54	0.82	2.99	0.54	0.20	19.9	5.44	3.69	0.48
Target Range – Lower Bound		67	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		84	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		139	3.0	37.1	1065	153.5	6.40	3.59	1.76	7.03	1.31	0.49	43.2	12.05	7.66	1.09
GBM321-8		139	2.9	39.3	1070	146.5	6.52	3.74	1.78	6.91	1.34	0.52	46.7	13.10	8.66	1.10
Target Range – Lower Bound		123	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		153	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
ISA-24																
ISA-24																
ISA-24																
ISA-24																
ISA-24																
Target Range – Lower Bound																
Upper Bound																
MRCA-21		63	9.8	18.6	824	55.2	3.97	1.40	1.56	5.97	0.63	0.18	44.5	12.50	8.00	0.82
MRCA-21		62	11.9	16.9	819	59.6	3.69	1.40	1.42	5.61	0.59	0.17	42.3	11.35	7.53	0.75
MRCA-21		63	11.6	17.9	836	59.3	3.80	1.48	1.49	5.49	0.62	0.19	42.1	11.85	7.77	0.79
Target Range – Lower Bound		57	9.3	15.6	740	50.5	3.43	1.28	1.33	5.30	0.53	0.14	35.4	9.83	6.97	0.69
Upper Bound		71	12.9	19.2	908	69.5	4.75	1.81	1.87	7.28	0.74	0.21	48.2	13.35	9.49	0.96
NCSDC35011																
NCSDC35011																
NCSDC35011																
Target Range – Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
STANDARDS			
AMIS0448			
AMIS0448			
Target Range – Lower Bound			
Upper Bound			
BEG-24			
BEG-24			
Target Range – Lower Bound			
Upper Bound			
EMOG-17		0.23	1.36
EMOG-17		0.22	1.36
Target Range – Lower Bound		0.19	1.30
Upper Bound		0.29	1.82
GBM321-8		0.51	3.22
GBM321-8		0.53	3.45
Target Range – Lower Bound		0.46	2.83
Upper Bound		0.64	3.91
ISA-24			
ISA-24			
ISA-24			
ISA-24			
ISA-24			
Target Range – Lower Bound			
Upper Bound			
MRCA-21		0.21	1.22
MRCA-21		0.19	1.11
MRCA-21		0.20	1.22
Target Range – Lower Bound		0.15	1.02
Upper Bound		0.23	1.45
NCSDC35011			
NCSDC35011			
NCSDC35011			
Target Range – Lower Bound			
Upper Bound			



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Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	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															
NCSDC35012			3.85												
NCSDC35012			3.94												
NCSDC35012			3.99												
Target Range - Lower Bound			3.78												
Upper Bound			4.18												
OREAS 242		8.43													
OREAS 242		8.48													
OREAS 242		8.69													
OREAS 242		8.68													
OREAS 242		8.93													
Target Range - Lower Bound		8.15													
Upper Bound		9.19													
OREAS 507				1.38	7.61	47.1	1120	2.53	2.25	1.79	0.67	71.9	7.8	45	11.40
OREAS 507				1.34	7.57	46.8	1070	2.48	1.88	1.76	0.70	68.9	7.6	44	10.50
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
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05
OREAS 681		0.051													
OREAS 681		0.052													
Target Range - Lower Bound		0.047													
Upper Bound		0.055													
BLANKS															
BLANK		0.001													
BLANK		0.001													
BLANK		0.002													
BLANK		0.001													
BLANK		<0.001													
BLANK		<0.001													
BLANK		<0.001													
Target Range - Lower Bound		<0.001													
Upper Bound		0.002													

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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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
STANDARDS															
NCSDC35012															
NCSDC35012															
NCSDC35012															
Target Range - Lower Bound															
Upper Bound															
OREAS 242															
OREAS 242															
OREAS 242															
OREAS 242															
OREAS 242															
Target Range - Lower Bound															
Upper Bound															
OREAS 507		39.2	161.5	0.083	0.76	5.40	8.2	4	4.9	221	1.06	0.65	14.65	0.356	3.6
OREAS 507		37.5	163.5	0.083	0.73	4.96	8.1	4	4.8	218	1.08	0.68	14.25	0.349	4.4
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	4.6
OREAS 681															
OREAS 681															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															



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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
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	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
STANDARDS															
NCSDC35012															
NCSDC35012															
NCSDC35012															
Target Range – Lower Bound															
Upper Bound															
OREAS 242															
OREAS 242															
OREAS 242															
OREAS 242															
OREAS 242															
Target Range – Lower Bound															
Upper Bound															
OREAS 507		65	9.5	15.8	161	58.6	3.37	1.35	1.28	5.17	0.57	0.17	32.7	9.07	6.91
OREAS 507		63	9.6	15.8	162	56.5	3.56	1.45	1.32	5.37	0.58	0.19	31.1	8.38	6.12
Target Range – Lower Bound		58	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
Upper Bound		73	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
OREAS 681															
OREAS 681															
Target Range – Lower Bound															
Upper Bound															
BLANKS															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range – Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOD	ME-MS61r	
		Tm	Yb
		ppm	ppm
		0.01	0.03
STANDARDS			
NCSDC35012			
NCSDC35012			
NCSDC35012			
Target Range – Lower Bound			
Upper Bound			
OREAS 242			
OREAS 242			
OREAS 242			
OREAS 242			
OREAS 242			
Target Range – Lower Bound			
Upper Bound			
OREAS 507		0.19	1.12
OREAS 507		0.18	1.06
Target Range – Lower Bound		0.15	1.00
Upper Bound		0.23	1.42
OREAS 681			
OREAS 681			
Target Range – Lower Bound			
Upper Bound			
BLANKS			
BLANK			
BLANK			
BLANK			
BLANK			
BLANK			
BLANK			
BLANK			
Target Range – Lower Bound			
Upper Bound			



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Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
		0.2													
BLANKS															
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	0.01	<0.02	<0.01	<0.1	<1	<0.05
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.03	<0.1	<1	<0.05
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
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
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10
BLANK			<0.005												
BLANK			<0.005												
BLANK			<0.005												
Target Range - Lower Bound			<0.005												
Upper Bound			0.010												
DUPLICATES															
RDD273918				0.12	7.21	17.5	80	0.32	0.02	7.55	0.25	10.25	45.5	106	0.36
DUP				0.12	7.31	17.3	80	0.32	0.02	7.76	0.25	10.35	45.2	107	0.36
Target Range - Lower Bound				0.10	6.89	16.3	60	0.25	<0.01	7.26	0.22	9.78	43.0	100	0.29
Upper Bound				0.14	7.63	18.5	100	0.39	0.03	8.05	0.28	10.85	47.7	113	0.43
RDD285101				0.893	0.06	4.26	4660	150	1.58	9.91	6.47	0.11	61.7	14.9	23
DUP				0.887	0.06	4.30	4650	150	1.58	11.10	6.55	0.11	61.2	14.2	24
Target Range - Lower Bound				0.863	0.05	4.06	4420	130	1.45	9.97	6.17	0.08	58.4	13.7	21
Upper Bound				0.917	0.07	4.50	4890	170	1.71	11.05	6.85	0.14	64.5	15.4	26
RDD285107		0.004													
DUP		0.003													
Target Range - Lower Bound		0.002													
Upper Bound		0.005													
RDD285122			0.039												
DUP			0.035												
Target Range - Lower Bound			0.031												
Upper Bound			0.043												



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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
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	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													
BLANKS															
BLANK		<0.01	<0.05	0.07	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
BLANK		<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
BLANK		<0.01	<0.05	0.08	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
BLANK		<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
BLANK		<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
Target Range - Lower Bound		<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
Upper Bound		0.02	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
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
RDD273918		7.96	15.45	0.18	1.4	0.068	0.25	3.9	11.1	3.91	1320	0.65	1.63	3.3	87.2
DUP		8.11	15.25	0.19	1.4	0.067	0.26	3.8	11.4	4.01	1355	0.64	1.65	3.4	89.0
Target Range - Lower Bound		7.62	14.55	0.12	1.2	0.059	0.23	3.2	10.5	3.75	1265	0.56	1.55	3.1	83.5
Upper Bound		8.45	16.15	0.25	1.6	0.076	0.28	4.5	12.0	4.17	1410	0.73	1.73	3.6	92.7
RDD285101		10.75	13.35	0.11	3.3	3.70	1.92	35.4	47.7	6.54	2200	1.04	0.32	26.0	12.2
DUP		10.85	13.35	0.13	3.5	4.34	1.94	35.9	48.0	6.61	2220	1.10	0.32	27.1	12.4
Target Range - Lower Bound		10.25	12.65	0.06	3.1	3.81	1.82	33.4	45.3	6.24	2090	0.97	0.29	25.1	11.5
Upper Bound		11.35	14.05	0.18	3.7	4.23	2.04	37.9	50.4	6.91	2330	1.17	0.35	28.0	13.1
RDD285107															
DUP															
Target Range - Lower Bound															
Upper Bound															
RDD285122															
DUP															
Target Range - Lower Bound															
Upper Bound															



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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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
BLANKS															
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	0.01	<0.005	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	5	0.4	0.4	0.10	0.10	0.02	0.010	0.2
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
RDD273918		7.7	6.2	0.002	0.18	0.55	43.9	1	0.7	240	0.19	0.07	0.47	0.603	0.1
DUP		7.8	6.3	<0.002	0.18	0.52	44.3	1	0.7	244	0.21	0.06	0.47	0.622	0.1
Target Range - Lower Bound		6.9	5.8	<0.002	0.16	0.44	41.8	<1	0.5	230	0.14	<0.05	0.44	0.577	<0.1
Upper Bound		8.6	6.7	0.004	0.20	0.63	46.4	2	0.9	254	0.26	0.10	0.50	0.648	0.2
RDD285101		1.3	110.0	<0.002	3.75	13.15	7.0	2	403	39.6	1.53	0.09	8.49	0.194	1.9
DUP		1.4	110.5	<0.002	3.75	13.40	7.0	2	423	41.9	1.56	0.09	8.83	0.195	2.0
Target Range - Lower Bound		0.8	104.5	<0.002	3.55	12.25	6.6	<1	392	38.5	1.42	<0.05	8.22	0.180	1.8
Upper Bound		1.9	116.0	0.004	3.95	14.30	7.5	3	434	43.0	1.67	0.10	9.10	0.209	2.1
RDD285107															
DUP															
Target Range - Lower Bound															
Upper Bound															
RDD285122															
DUP															
Target Range - Lower Bound															
Upper Bound															



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	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
BLANKS																
BLANK		<1	<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
BLANK		<1	<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
BLANK		<1	<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
BLANK		<1	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
BLANK		<1	<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
Target Range - Lower Bound		<1	<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
Upper Bound		2	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
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
RDD273918		277	7.8	21.6	99	51.8	3.53	2.17	0.88	3.07	0.76	0.31	7.3	1.48	2.32	0.52
DUP		284	7.8	21.4	102	52.2	3.59	2.17	0.89	3.11	0.77	0.31	7.2	1.42	2.27	0.55
Target Range - Lower Bound		265	7.1	20.3	93	48.9	3.24	1.98	0.79	2.81	0.70	0.28	6.6	1.31	2.09	0.48
Upper Bound		296	8.5	22.7	108	55.1	3.88	2.36	0.98	3.37	0.83	0.34	7.9	1.59	2.50	0.59
RDD285101		33	1.2	20.9	53	118.0	3.29	2.13	0.58	3.10	0.71	0.35	21.6	6.57	3.76	0.52
DUP		34	1.8	21.8	52	126.5	3.35	2.31	0.56	3.15	0.75	0.36	21.3	6.63	3.69	0.51
Target Range - Lower Bound		31	1.3	20.2	48	115.5	3.02	2.02	0.50	2.84	0.67	0.32	19.7	6.08	3.42	0.47
Upper Bound		36	1.7	22.5	57	129.0	3.62	2.42	0.64	3.41	0.79	0.39	23.2	7.13	4.03	0.56
RDD285107																
DUP																
Target Range - Lower Bound																
Upper Bound																
RDD285122																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
BLANKS			
BLANK		<0.01	<0.03
BLANK		0.01	<0.03
BLANK		0.01	<0.03
BLANK		<0.01	<0.03
BLANK		<0.01	<0.03
Target Range – Lower Bound		<0.01	<0.03
Upper Bound		0.02	0.06
BLANK			
BLANK			
BLANK			
Target Range – Lower Bound			
Upper Bound			
DUPLICATES			
RDD273918		0.32	2.04
DUP		0.32	2.06
Target Range – Lower Bound		0.29	1.87
Upper Bound		0.35	2.23
RDD285101		0.35	2.19
DUP		0.36	2.26
Target Range – Lower Bound		0.32	2.03
Upper Bound		0.39	2.42
RDD285107			
DUP			
Target Range – Lower Bound			
Upper Bound			
RDD285122			
DUP			
Target Range – Lower Bound			
Upper Bound			



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Sample Description	Method Analyte Units LOD	Au-ICP21 ppm 0.001	ME-XRF15b Sn % 0.005	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
DUPLICATES																
RDD285126		0.001														
DUP		0.001														
Target Range – Lower Bound		<0.001														
Upper Bound		0.002														
RDD285139				<0.01	7.00	11.2	40	3.41	0.04	10.25	0.27	136.0	2.5	27	9.03	0.9
DUP				<0.01	6.99	10.2	40	3.45	0.04	10.35	0.26	131.5	2.5	28	8.71	0.9
Target Range – Lower Bound				<0.01	6.64	10.0	30	3.21	0.03	9.78	0.23	127.0	2.3	25	8.38	0.7
Upper Bound				0.02	7.35	11.4	50	3.65	0.05	10.85	0.30	140.5	2.7	30	9.36	1.1
RDD285146			0.034													
DUP			0.036													
Target Range – Lower Bound			0.029													
Upper Bound			0.041													
RDD285167			0.012													
DUP			0.014													
Target Range – Lower Bound			0.008													
Upper Bound			0.018													
RDD285168				0.02	3.00	1.4	40	1.10	0.04	16.70	0.14	44.9	5.4	14	35.4	9.8
DUP				0.01	3.05	0.8	40	1.12	0.03	17.05	0.15	44.6	5.4	13	36.5	10.4
Target Range – Lower Bound				<0.01	2.86	0.8	30	1.00	0.02	16.00	0.12	42.5	5.0	12	34.1	9.5
Upper Bound				0.02	3.19	1.4	50	1.22	0.05	17.75	0.17	47.0	5.8	15	37.8	10.7
RDD285178				<0.01	0.84	<0.2	<10	0.31	0.04	19.80	0.07	13.00	2.2	5	1.34	2.2
DUP				0.01	0.82	<0.2	<10	0.30	0.05	19.45	0.06	12.65	2.2	5	1.38	2.9
Target Range – Lower Bound				<0.01	0.78	<0.2	<10	0.24	0.03	18.65	0.04	12.15	2.0	4	1.24	2.3
Upper Bound				0.02	0.88	0.4	20	0.37	0.06	20.6	0.09	13.50	2.4	6	1.48	2.8
RDD285190			2.57													
DUP			2.58													
Target Range – Lower Bound			2.51													
Upper Bound			2.64													
RDD285201		0.001														
DUP		0.001														
Target Range – Lower Bound		<0.001														
Upper Bound		0.002														



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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	ME-MS61r
		Fe	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
		0.01	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
RDD285126 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD285139 DUP Target Range – Lower Bound Upper Bound		3.84 3.84 3.64 4.04	19.15 18.55 17.85 19.85	0.18 0.19 0.12 0.25	7.3 7.2 6.8 7.7	0.903 0.868 0.836 0.935	0.53 0.53 0.49 0.57	66.6 64.4 61.7 69.3	26.1 26.2 24.6 27.7	2.65 2.67 2.52 2.80	1935 1975 1850 2060	0.30 0.31 0.24 0.37	1.31 1.30 1.23 1.38	86.6 85.1 81.5 90.2	15.0 14.6 13.9 15.7	670 680 630 720
RDD285146 DUP Target Range – Lower Bound Upper Bound																
RDD285167 DUP Target Range – Lower Bound Upper Bound																
RDD285168 DUP Target Range – Lower Bound Upper Bound		2.60 2.62 2.47 2.75	7.74 7.86 7.36 8.24	0.08 0.08 <0.05 0.10	2.2 2.3 2.0 2.5	0.518 0.537 0.496 0.559	1.62 1.64 1.54 1.72	22.1 21.8 20.4 23.5	32.2 32.7 30.6 34.3	8.54 8.64 8.15 9.03	1630 1660 1560 1730	0.08 0.08 <0.05 0.10	0.06 0.06 0.05 0.07	8.8 8.9 8.3 9.4	8.1 8.5 7.7 8.9	230 240 210 260
RDD285178 DUP Target Range – Lower Bound Upper Bound		2.40 2.34 2.24 2.50	2.44 2.40 2.25 2.59	0.07 0.08 <0.05 0.10	0.6 0.6 0.5 0.7	0.048 0.049 0.041 0.056	0.02 0.02 <0.01 0.03	5.0 5.0 4.3 5.8	10.3 10.0 9.4 10.9	11.70 11.35 10.95 12.10	1890 1840 1765 1965	0.08 0.14 <0.05 0.17	0.01 0.01 <0.01 0.02	2.9 2.9 2.7 3.1	4.3 4.7 4.1 4.9	410 390 370 430
RDD285190 DUP Target Range – Lower Bound Upper Bound																
RDD285201 DUP Target Range – Lower Bound Upper Bound																



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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	ME-MS61r
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	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
RDD285126 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD285139 DUP Target Range – Lower Bound Upper Bound		4.7 4.6 3.9 5.4	81.2 79.5 76.2 84.5	<0.002 <0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	1.12 1.10 0.98 1.24	11.4 10.9 10.5 11.8	<1 <1 <1 2	214 210 201 223	81.9 80.7 77.0 85.6	4.46 4.50 4.21 4.75	<0.05 <0.05 <0.05 0.10	17.70 17.30 16.60 18.40	0.292 0.295 0.274 0.313	0.54 0.53 0.47 0.60	2.5 2.4 2.2 2.7
RDD285146 DUP Target Range – Lower Bound Upper Bound																
RDD285167 DUP Target Range – Lower Bound Upper Bound																
RDD285168 DUP Target Range – Lower Bound Upper Bound		1.7 1.7 1.1 2.3	162.0 165.0 155.0 172.0	<0.002 <0.002 <0.002 0.004	0.15 0.15 0.13 0.17	1.52 1.57 1.38 1.71	5.2 5.3 4.9 5.6	<1 <1 <1 2	163.5 169.5 158.0 175.0	39.4 40.1 37.6 41.9	0.52 0.54 0.45 0.61	<0.05 <0.05 <0.05 0.10	6.11 6.02 5.75 6.38	0.163 0.166 0.151 0.178	1.32 1.35 1.21 1.46	2.9 2.9 2.7 3.1
RDD285178 DUP Target Range – Lower Bound Upper Bound		0.7 1.0 <0.5 1.0	2.0 2.3 1.9 2.4	<0.002 <0.002 <0.002 0.004	0.04 0.04 0.03 0.05	0.12 0.16 0.08 0.20	2.0 2.0 1.8 2.2	<1 <1 <1 2	2.0 2.0 1.7 2.3	100.5 98.5 94.3 104.5	0.19 0.17 0.12 0.24	<0.05 <0.05 <0.05 0.10	1.67 1.62 1.55 1.74	0.049 0.047 0.041 0.055	<0.02 0.02 <0.02 0.04	0.4 0.4 0.3 0.5
RDD285190 DUP Target Range – Lower Bound Upper Bound																
RDD285201 DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	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
RDD285126 DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
RDD285139 DUP Target Range – Lower Bound Upper Bound		54 54 50 58	1.6 1.7 1.4 1.9	41.2 40.8 38.9 43.2	50 49 45 54	297 292 279 310	6.71 6.67 6.14 7.24	3.93 3.69 3.49 4.13	1.34 1.31 1.20 1.45	6.79 6.68 6.18 7.29	1.38 1.34 1.25 1.47	0.58 0.58 0.53 0.63	53.3 50.2 47.8 55.7	15.20 14.65 13.80 16.05	8.51 8.28 7.74 9.05	1.10 1.10 1.01 1.19
RDD285146 DUP Target Range – Lower Bound Upper Bound																
RDD285167 DUP Target Range – Lower Bound Upper Bound																
RDD285168 DUP Target Range – Lower Bound Upper Bound		24 25 22 27	0.8 0.8 0.6 1.0	20.9 21.8 20.2 22.5	40 40 36 44	88.3 91.3 84.8 94.8	3.24 3.25 2.95 3.54	1.93 1.96 1.77 2.12	0.65 0.67 0.58 0.74	3.26 3.23 2.95 3.54	0.66 0.68 0.61 0.73	0.28 0.29 0.25 0.32	21.1 20.9 19.3 22.7	5.50 5.44 5.03 5.91	4.18 4.15 3.82 4.51	0.52 0.53 0.48 0.57
RDD285178 DUP Target Range – Lower Bound Upper Bound		8 8 7 9	0.2 0.2 <0.1 0.3	11.4 11.7 10.9 12.2	22 20 18 24	19.9 19.8 18.4 21.3	1.66 1.68 1.49 1.85	0.88 0.89 0.79 0.98	0.42 0.44 0.37 0.49	1.95 1.96 1.76 2.15	0.33 0.33 0.30 0.36	0.11 0.11 0.09 0.13	7.8 7.6 7.0 8.4	1.70 1.74 1.56 1.88	1.95 1.90 1.75 2.10	0.29 0.30 0.26 0.33
RDD285190 DUP Target Range – Lower Bound Upper Bound																
RDD285201 DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
RDD285126 DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
RDD285139 DUP Target Range – Lower Bound Upper Bound		0.60 0.61 0.55 0.66	3.82 3.89 3.54 4.17
RDD285146 DUP Target Range – Lower Bound Upper Bound			
RDD285167 DUP Target Range – Lower Bound Upper Bound			
RDD285168 DUP Target Range – Lower Bound Upper Bound		0.28 0.28 0.25 0.31	1.83 1.88 1.69 2.02
RDD285178 DUP Target Range – Lower Bound Upper Bound		0.12 0.12 0.10 0.14	0.71 0.70 0.62 0.79
RDD285190 DUP Target Range – Lower Bound Upper Bound			
RDD285201 DUP Target Range – Lower Bound Upper Bound			



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Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
DUPLICATES																
ORIGINAL		0.006														
DUP		0.005														
Target Range – Lower Bound		0.004														
Upper Bound		0.007														
ORIGINAL		0.010														
DUP		0.010														
Target Range – Lower Bound		0.009														
Upper Bound		0.012														
ORIGINAL		0.006														
DUP		0.005														
Target Range – Lower Bound		0.004														
Upper Bound		0.007														
ORIGINAL		0.007														
DUP		0.008														
Target Range – Lower Bound		0.006														
Upper Bound		0.009														
ORIGINAL		0.021														
DUP		0.019														
Target Range – Lower Bound		0.018														
Upper Bound		0.022														
ORIGINAL		0.002														
DUP		0.002														
Target Range – Lower Bound		<0.001														
Upper Bound		0.003														
ORIGINAL		0.006														
DUP		0.007														
Target Range – Lower Bound		0.005														
Upper Bound		0.008														
ORIGINAL		0.004														
DUP		0.003														
Target Range – Lower Bound		0.002														
Upper Bound		0.005														



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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	ME-MS61r
		Fe	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
		0.01	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES													
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															
ORIGINAL DUP Target Range – Lower Bound Upper Bound															



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Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
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ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			



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Project: EDGI_18

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Finalized Date: 27-FEB-2025

Account: BLUMINJV

QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	Au-ICP21	ME-XRF15b	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	Sn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
DUPLICATES																
ORIGINAL		0.003														
DUP		0.003														
Target Range – Lower Bound		0.002														
Upper Bound		0.004														
ORIGINAL		0.007														
DUP		0.006														
Target Range – Lower Bound		0.005														
Upper Bound		0.008														
ORIGINAL		0.004														
DUP		0.003														
Target Range – Lower Bound		0.002														
Upper Bound		0.005														
ORIGINAL		3.14														
DUP		1.910														
Target Range – Lower Bound		2.40														
Upper Bound		2.65														
ORIGINAL		2.46														
DUP		1.340														
Target Range – Lower Bound		1.805														
Upper Bound		1.995														
ORIGINAL		0.111														
DUP		0.107														
Target Range – Lower Bound		0.103														
Upper Bound		0.115														
ORIGINAL		0.003														
DUP		0.004														
Target Range – Lower Bound		0.002														
Upper Bound		0.005														
ORIGINAL		0.048														
DUP		0.064														
Target Range – Lower Bound		0.052														
Upper Bound		0.060														



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QC CERTIFICATE OF ANALYSIS AD25025627

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	ME-MS61r
		Fe	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
		0.01	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r Pb ppm 0.5	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
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ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
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ORIGINAL DUP Target Range – Lower Bound Upper Bound																



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm	Yb
		ppm	ppm
		0.01	0.03
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES	
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
ORIGINAL DUP Target Range – Lower Bound Upper Bound			
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ORIGINAL DUP Target Range – Lower Bound Upper Bound			
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***** See Appendix Page for comments regarding this certificate *****



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QC CERTIFICATE OF ANALYSIS AD25025627

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	ME-MS61r
		Fe	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
		0.01	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														



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Sample Description	Method Analyte Units LOD	ME-MS61r Pb ppm 0.5	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r V ppm 1	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
ORIGINAL DUP Target Range – Lower Bound Upper Bound	DUPLICATES															



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QC CERTIFICATE OF ANALYSIS AD25025627

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm ppm 0.01	Yb ppm 0.03
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES	



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Total # Appendix Pages: 1

Finalized Date: 27-FEB-2025

Account: BLUMINJV

QC CERTIFICATE OF ANALYSIS AD25025627

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 Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-ICP21

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 29 & 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 19 Integrity Way, Wangara, WA, Australia
Au-ICP21

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.

BAG-01

BAG-21

CRU-21

LEV-01

LOG-22

LOG-24

OA-HSUL10

PUL-23

PUL-QC

SPL-21

WEI-21

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

ME-MS61r

ME-XRF15b