



Australian Laboratory Services Pty. Ltd.

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31 BENNETTS ROAD

CAMP HILL QLD 4152

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Plus Appendix Pages

Finalized Date: 23-MAR-2023

This copy reported on 24-MAR-2023

Account: TINONEAUS

CERTIFICATE BU23062450

Project: Aberfoyle

P.O. No.: ABF004

This report is for 38 samples of Rock submitted to our lab in Burnie, TAS, Australia on 10-MAR-2023.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL

RUSSELL FULTON

STUART SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
BAG-21	Raw Sample in a new bag
CRU-21	Crush entire sample
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
As-OG62	Ore Grade As - 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:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BU23062450

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
GM10299		1.59	90.3	0.10	8.87	17.3	20	5.53	0.84	0.01	0.11	16.25	2.1	7	60.2	7.5
GM10300		1.53		0.15	8.56	19.4	20	3.42	3.91	0.04	0.11	17.60	1.6	9	55.7	10.5
GM10301		1.58		0.02	7.40	6.2	20	5.73	0.32	0.01	0.07	20.2	1.5	6	45.0	5.4
GM10302		1.16		0.04	7.50	3.2	20	5.62	1.13	0.02	0.09	18.05	0.9	9	44.7	3.3
GM10303		1.17		0.03	4.81	3.0	20	3.54	0.73	0.02	0.06	21.5	0.8	10	18.65	3.3
GM10304		1.24		0.05	7.36	17.0	20	4.72	2.69	0.02	0.09	18.25	0.7	9	37.7	4.7
GM10305		1.63		0.13	0.79	0.9	<10	1.38	3.35	0.01	0.11	13.20	0.3	4	9.66	3.7
GM10306		2.52		0.12	6.42	4.9	20	5.93	1.93	0.03	0.22	12.05	0.2	1	96.9	8.0
GM10307		1.58		0.11	8.54	13.6	20	4.79	3.12	0.02	0.10	18.85	0.9	19	46.2	16.1
GM10308		1.45		0.04	8.49	3.8	20	3.29	2.87	0.02	0.03	13.25	1.2	5	41.7	4.4
GM10309		1.92		0.42	7.63	8.5	20	4.92	8.75	0.01	0.12	9.10	0.6	3	65.1	9.3
GM10310		1.43		0.04	7.07	7.2	20	3.96	0.64	0.02	0.06	11.50	1.3	8	30.1	21.6
GM10311		1.39		0.01	9.50	7.2	10	8.02	0.35	<0.01	0.07	9.91	1.6	11	44.7	9.7
GM10312		1.90		0.03	7.41	2.7	10	4.35	1.67	0.01	0.02	20.9	1.1	7	31.7	5.4
GM10313		1.44		0.02	9.35	6.1	20	6.01	0.87	0.01	0.08	20.5	1.8	11	55.1	9.8
GM10314		1.57		0.05	6.86	1.1	20	5.44	0.70	0.01	0.03	17.70	1.2	3	62.7	21.7
GM10315		1.64		0.09	7.71	3.5	30	4.50	2.57	0.02	0.03	14.75	0.8	4	35.1	11.9
GM10316		2.81		0.16	6.33	3.8	60	11.05	1.17	0.04	0.11	33.3	0.3	2	46.7	5.2
GM10317		0.95		0.08	7.97	30.6	20	6.02	0.62	0.02	0.06	19.95	0.7	6	26.3	9.5
GM10318		1.65		26.2	5.22	3870	20	3.54	6.71	0.05	87.2	15.35	0.3	4	56.5	4240
GM10319		1.08		0.50	4.94	25.2	10	4.08	0.73	0.01	0.38	8.54	0.3	4	62.6	59.2
GM10320		2.55		73.7	5.89	>10000	10	4.01	55.5	0.02	175.5	14.50	1.3	3	45.9	9180
GM10321		2.48		81.6	3.74	>10000	10	2.24	64.1	0.01	202	12.50	1.6	3	21.9	>10000
GM10322		1.57		84.4	3.72	8290	10	7.16	15.55	0.09	28.3	20.0	0.9	3	101.0	>10000
GM10323		1.86		3.89	8.76	853	20	7.04	18.20	0.02	1.67	21.1	2.0	8	40.0	819



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Finalized Date: 23-MAR-2023

Account: TINONEAUS

Project: Aberfoyle

CERTIFICATE OF ANALYSIS BU23062450

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
GM10299		1.50	46.0	<0.05	2.9	0.111	2.26	5.3	317	0.04	260	0.53	0.09	27.0	6.3	170
GM10300		1.70	43.7	<0.05	2.7	0.160	2.14	6.6	283	0.07	233	0.72	0.35	26.4	8.2	240
GM10301		1.15	33.2	0.07	2.9	0.075	2.79	7.3	304	0.03	166	1.28	0.11	22.2	9.5	310
GM10302		2.24	33.2	0.09	2.4	0.143	2.75	7.3	205	0.04	207	0.92	0.63	22.7	10.2	280
GM10303		1.64	25.2	0.09	2.6	0.054	1.22	9.2	151.5	0.04	120	0.71	0.55	19.0	5.8	220
GM10304		2.36	38.2	0.07	2.4	0.144	2.67	7.4	198.5	0.03	198	1.19	0.71	21.0	3.4	340
GM10305		0.92	5.55	0.05	1.5	0.024	0.36	5.1	74.4	0.01	182	0.79	0.01	15.1	0.6	50
GM10306		2.41	34.6	0.07	2.1	5.46	3.56	4.3	347	0.03	1110	0.17	0.05	14.5	0.5	160
GM10307		4.43	43.1	0.10	3.0	0.563	2.47	7.6	202	0.04	273	1.80	0.33	25.2	7.5	330
GM10308		1.65	34.8	0.07	2.3	0.104	3.22	4.6	194.5	0.03	273	0.69	0.68	23.7	5.2	300
GM10309		1.75	42.6	0.06	1.5	0.172	4.08	3.5	184.5	0.04	1040	0.42	0.06	15.7	6.5	110
GM10310		1.31	22.9	0.06	2.3	0.109	1.95	4.5	205	0.04	160	1.35	0.20	16.6	5.3	240
GM10311		3.29	27.3	0.06	2.3	0.129	1.56	3.4	204	0.02	184	5.28	0.06	18.1	11.5	490
GM10312		1.40	25.8	0.06	2.4	0.092	1.54	7.7	189.0	0.03	149	1.19	0.71	16.1	6.0	260
GM10313		2.83	31.8	0.07	2.6	0.105	3.05	7.5	236	0.05	253	2.81	0.27	18.9	12.0	650
GM10314		1.15	35.0	0.08	2.4	0.197	3.34	6.1	300	0.03	259	0.51	0.60	23.7	2.8	220
GM10315		1.15	33.8	0.07	2.8	0.173	3.30	4.8	176.5	0.03	165	1.28	0.66	22.6	4.4	370
GM10316		1.01	29.6	0.10	2.3	1.890	4.00	14.3	213	0.05	312	0.51	1.09	17.3	1.0	220
GM10317		2.63	32.7	0.13	2.0	0.152	3.23	7.5	118.5	0.09	137	1.78	0.15	18.1	2.2	270
GM10318		2.79	30.8	0.13	2.0	12.05	2.86	5.6	202	0.02	660	0.52	0.04	11.8	0.7	350
GM10319		2.07	29.4	0.11	1.5	0.320	2.74	3.1	215	0.02	724	0.54	0.42	16.0	0.9	90
GM10320		4.09	18.55	0.18	1.9	59.4	2.58	5.2	517	0.01	763	1.68	0.04	9.9	1.5	190
GM10321		5.29	10.15	0.38	1.8	70.1	1.31	4.4	368	0.01	329	2.04	0.02	6.2	1.0	130
GM10322		3.84	35.0	0.13	2.1	15.00	1.91	7.2	337	0.03	677	9.09	0.03	18.1	3.4	970
GM10323		3.99	32.8	0.09	3.2	2.10	2.87	7.3	275	0.03	341	16.70	0.25	20.7	7.5	810



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Finalized Date: 23-MAR-2023

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CERTIFICATE OF ANALYSIS BU23062450

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
GM10299		54.5	657	<0.002	0.02	0.26	3.8	<1	32.1	15.0	7.62	<0.05	14.05	0.042	3.82	6.7
GM10300		51.1	587	<0.002	0.02	0.24	4.1	<1	34.2	17.2	6.80	<0.05	15.35	0.070	3.58	6.0
GM10301		33.9	627	<0.002	0.01	0.10	2.7	<1	28.2	12.6	5.40	<0.05	14.80	0.028	3.61	10.6
GM10302		23.4	597	<0.002	0.02	0.08	3.1	1	24.4	12.8	5.74	<0.05	12.05	0.071	3.44	6.1
GM10303		17.6	244	<0.002	0.01	0.12	2.7	1	13.9	13.6	4.78	<0.05	11.85	0.099	1.55	5.7
GM10304		20.7	595	<0.002	0.02	0.23	3.6	2	24.4	13.3	5.00	<0.05	13.90	0.071	3.83	10.6
GM10305		25.8	127.0	<0.002	<0.01	0.12	1.2	<1	12.6	3.2	3.80	<0.05	8.10	0.019	0.68	3.6
GM10306		15.7	1150	<0.002	<0.01	0.18	3.6	<1	158.0	15.6	3.35	<0.05	9.30	0.024	6.05	15.5
GM10307		32.4	592	<0.002	0.03	0.09	4.4	2	35.6	13.8	5.60	<0.05	21.4	0.103	3.64	10.3
GM10308		17.7	768	<0.002	0.01	0.10	3.1	<1	28.5	12.3	6.90	<0.05	13.30	0.020	4.54	9.1
GM10309		9.4	1210	<0.002	0.01	0.44	4.1	<1	110.5	4.1	4.20	<0.05	6.61	0.019	7.99	4.1
GM10310		16.1	407	<0.002	<0.01	0.10	2.0	1	19.8	8.3	3.84	<0.05	11.25	0.024	2.51	7.1
GM10311		26.2	379	<0.002	0.01	0.16	2.9	1	20.3	6.8	4.24	<0.05	12.45	0.021	2.26	27.2
GM10312		21.8	371	<0.002	0.01	0.05	2.6	<1	16.6	8.5	3.74	<0.05	15.85	0.021	1.96	11.2
GM10313		30.7	634	<0.002	0.01	0.13	3.3	1	24.5	16.6	4.19	<0.05	19.40	0.023	3.63	26.8
GM10314		14.8	792	<0.002	0.01	<0.05	3.1	<1	36.2	10.2	6.15	<0.05	13.30	0.023	4.54	10.9
GM10315		19.5	654	<0.002	0.01	<0.05	2.9	<1	19.3	25.5	5.07	<0.05	14.00	0.028	3.73	11.9
GM10316		14.6	822	<0.002	<0.01	0.07	2.9	<1	57.9	20.0	3.76	<0.05	13.35	0.042	5.42	4.8
GM10317		24.2	628	<0.002	0.01	0.17	2.6	1	17.0	20.8	3.75	<0.05	12.25	0.027	3.94	9.5
GM10318		6.1	877	<0.002	0.68	2.01	2.1	1	247	11.7	2.68	<0.05	11.45	0.016	5.52	20.0
GM10319		7.6	823	<0.002	0.01	0.15	2.6	<1	147.0	3.1	3.72	<0.05	7.02	0.017	4.57	4.9
GM10320		6.3	793	<0.002	2.07	5.48	1.6	4	350	6.3	1.91	<0.05	10.65	0.010	4.93	25.7
GM10321		6.1	385	<0.002	2.48	17.30	0.9	6	355	4.3	1.72	<0.05	9.62	0.010	2.66	24.3
GM10322		11.4	876	<0.002	1.19	2.30	2.7	4	375	23.4	3.40	<0.05	14.00	0.022	6.80	51.6
GM10323		22.1	695	<0.002	0.06	0.80	3.8	1	56.5	21.8	5.64	0.07	18.70	0.031	4.46	44.6
GM10372		35.3	448	<0.002	0.08	0.78	3.2	1	8.5	14.8	3.17	<0.05	29.1	0.033	3.12	5.7
GM10373		16.8	28.1	<0.002	0.01	0.15	6.9	1	31.2	21.4	0.72	<0.05	4.42	0.091	0.24	3.6
GM10374		8.9	79.1	<0.002	0.01	2.51	3.1	1	6.2	22.1	1.65	<0.05	12.60	<0.005	0.44	1.7
GM10375		25.4	2270	0.005	0.01	0.21	12.2	<1	322	1.8	10.05	<0.05	11.45	0.012	7.81	11.0
GM10376		175.5	193.5	<0.002	0.40	2.61	2.0	3	10.9	37.0	2.16	<0.05	7.14	0.005	1.38	10.5



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CERTIFICATE OF ANALYSIS BU23062450

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	As-OG62
		V	W	Y	Zn	Zr	Cu	As
		ppm	ppm	ppm	ppm	ppm	%	%
		1	0.1	0.1	2	0.5	0.001	0.001
GM10299		6	7.4	7.5	96	57.6		
GM10300		17	7.2	7.5	96	57.4		
GM10301		4	6.2	6.5	55	59.2		
GM10302		13	6.3	9.0	47	53.6		
GM10303		16	5.0	9.6	31	57.5		
GM10304		15	8.7	9.3	50	52.3		
GM10305		1	2.9	10.4	23	30.5		
GM10306		2	7.5	8.3	106	41.3		
GM10307		35	12.5	9.0	111	69.2		
GM10308		6	5.1	6.8	48	41.4		
GM10309		5	4.3	3.7	67	27.4		
GM10310		8	17.5	5.4	71	48.3		
GM10311		16	44.5	5.2	79	47.5		
GM10312		5	7.1	8.1	37	48.7		
GM10313		15	17.5	9.5	77	53.3		
GM10314		1	5.9	10.0	64	48.4		
GM10315		5	8.7	8.9	49	57.1		
GM10316		2	6.3	12.7	65	57.2		
GM10317		12	9.3	10.0	78	39.5		
GM10318		1	6.2	9.4	3020	37.3		
GM10319		<1	5.6	6.8	88	26.6		
GM10320		1	56.4	9.4	6090	35.5		1.735
GM10321		1	11.9	6.2	6510	36.6	1.285	4.48
GM10322		1	40.4	23.9	601	44.2	1.845	
GM10323		7	14.1	12.7	182	58.9		



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CERTIFICATE OF ANALYSIS BU23062450

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	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. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
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 Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia BAG-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 As-OG62 Cu-OG62 ME-MS61 ME-OG62
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21