



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 7 3243 7222 Fax: +61 7 3243 7218

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ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation

No: 825, Corporate Site No: 818.

To: **BURGEO PTY LTD**  
**3 STRABANE AVE**  
**KILLARNEY HEIGHTS NSW 2087**

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Plus Appendix Pages

Finalized Date: 11-JUL-2022

This copy reported on 12-JUL-2022

Account: BURGEOPTY

## CERTIFICATE BR22164504

Project: CCP-PKG01

This report is for 9 samples of Rock submitted to our lab in Brisbane, QLD, Australia on 20-JUN-2022.

The following have access to data associated with this certificate:

WALLY BUCKNELL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
BAG-01	Bulk Master for Storage
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample
PUL-21	Pulverize entire sample

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package – ICP-AES	ICP-AES
C-IR07	Total Carbon (IR Spectroscopy)	LECO
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
TOT-ICP06	Total Calculation for ICP06	
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
ME-GRA05	H2O/LOI by TGA furnace	TGA

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 BR22164504**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt.	Pass7Sum	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO
		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
AR 1		0.52	99.1	33.7	3.07	49.0	0.20	0.36	0.05	0.36	0.010	0.19	3.45	0.16	0.01	0.04
AR 2		0.33	98.2	27.5	1.28	50.8	0.13	0.20	0.05	0.49	0.010	0.08	6.53	0.16	0.03	0.15
AR 3		0.46		11.75	1.56	69.2	0.37	0.59	0.10	0.33	0.008	0.09	4.19	0.24	0.01	0.07
AR 4		0.23		64.2	15.30	4.52	2.30	1.26	0.11	1.60	0.009	0.79	0.18	0.04	0.02	0.05
AR 5		0.86		89.2	7.22	1.18	0.40	0.29	0.03	0.48	0.004	0.40	0.03	0.06	<0.01	0.02
AR 6		0.23		58.8	10.45	8.09	5.66	0.39	0.04	0.89	0.012	0.58	0.03	0.10	0.02	0.02
AR 7		0.28		55.4	15.45	3.83	4.25	3.73	0.11	4.25	0.015	0.71	0.03	0.02	0.02	0.04
AR 8		0.26		61.2	20.7	1.79	0.44	1.05	1.86	2.66	0.020	1.04	0.03	0.01	0.01	0.03
AR 9		0.31		32.4	12.70	39.2	0.38	1.20	0.13	2.72	0.018	0.53	0.38	0.10	0.01	0.03



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**CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-GRA05	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		LOI	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge
		%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.5
AR 1		8.53	99.13	0.28	0.02	337	113.0	68	0.78	18.45	9.81	3.92	7.0	22.4	1.2
AR 2		8.79	96.20	0.20	0.02	1425	48.0	72	0.61	23.7	12.25	3.98	8.2	24.7	1.1
AR 3		10.84	99.35	0.33	0.03	617	32.1	50	0.60	15.75	8.28	2.29	6.9	16.45	0.9
AR 4		7.97	98.35	1.04	0.05	451	40.8	66	3.06	8.31	5.36	0.95	22.2	6.48	2.2
AR 5		2.56	101.87	0.13	0.01	135.0	57.4	16	1.02	13.10	6.12	3.53	7.1	17.45	2.0
AR 6		8.20	93.28	0.35	2.95	157.0	72.2	83	1.52	13.70	7.10	3.50	16.4	16.35	1.6
AR 7		10.10	97.96	1.80	0.01	385	58.9	103	8.39	6.37	4.50	1.14	21.5	6.13	2.6
AR 8		8.04	98.88	0.14	0.04	317	104.0	147	5.04	10.75	6.07	2.65	28.6	12.45	2.5
AR 9		9.22	99.02	0.30	0.02	261	41.8	120	8.36	5.16	3.50	0.81	20.5	4.82	2.3



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**CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Ho	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.01	0.05	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01
AR 1		3.76	73.6	1.06	5.38	78.6	18.35	15.2	17.70	2.2	101.0	0.4	3.28	9.53	1.26
AR 2		4.67	55.7	1.23	2.61	58.9	13.40	16.0	16.30	1.3	286	0.2	4.18	4.23	1.56
AR 3		3.18	31.7	0.96	2.17	32.4	6.83	9.8	9.13	1.0	128.5	0.2	2.67	4.48	1.12
AR 4		1.78	30.7	0.72	18.25	22.0	5.74	81.2	4.89	6.4	120.0	1.5	1.26	19.25	0.75
AR 5		2.36	76.3	0.71	10.35	101.5	24.1	25.0	21.0	3.0	24.3	0.9	2.35	17.65	0.85
AR 6		2.67	36.9	0.84	13.65	66.7	13.70	44.7	17.15	4.6	176.5	1.2	2.51	16.65	1.02
AR 7		1.51	35.8	0.65	14.35	29.4	7.52	145.5	5.63	4.8	214	1.1	0.99	15.85	0.65
AR 8		2.18	79.0	0.80	19.80	71.1	19.15	125.0	14.60	6.3	41.0	1.6	1.84	21.6	0.83
AR 9		1.20	22.7	0.64	12.40	17.6	4.66	117.0	3.88	4.9	26.6	0.9	0.78	13.65	0.54



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**CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81
		V	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		5	0.5	0.1	0.03	1	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.5
AR 1		157	0.7	96.8	7.45	108	4.0	0.60	0.030	0.042	0.001	0.59	0.2	0.02	<0.5
AR 2		208	0.8	103.0	8.93	49	8.1	0.20	0.030	0.025	0.003	0.59	<0.2	0.08	<0.5
AR 3		233	0.6	79.6	6.51	43	6.8	0.09	0.046	0.013	0.001	0.35	<0.2	0.04	<0.5
AR 4		187	4.0	55.1	4.75	306	12.0	0.50	0.010	0.073	0.001	0.58	0.7	0.03	<0.5
AR 5		35	1.7	69.7	4.86	235	1.8	0.44	<0.005	0.009	<0.001	0.23	0.2	<0.01	<0.5
AR 6		200	3.7	65.8	6.18	205	7.3	0.56	0.005	0.084	<0.001	0.78	0.4	0.02	<0.5
AR 7		106	2.4	53.6	4.25	183	15.0	0.41	0.005	0.031	<0.001	0.13	0.2	0.02	<0.5
AR 8		170	3.3	64.2	5.23	266	5.5	0.62	<0.005	0.025	0.001	0.32	0.3	0.01	<0.5
AR 9		154	2.5	40.8	3.47	107	9.8	0.45	0.044	0.034	<0.001	0.18	0.2	0.01	<0.5



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**CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	1	1	10	1	1	2	1	2
AR 1		2.7	812	160	10	1	504	25	13	2020
AR 2		2.3	933	253	<10	1	555	27	17	1265
AR 3		3.9	1145	227	10	<1	671	20	16	1615
AR 4		<0.5	40	29	20	1	37	19	19	78
AR 5		<0.5	7	15	10	<1	11	19	6	27
AR 6		<0.5	10	78	10	1	27	21	32	51
AR 7		<0.5	105	20	50	1	215	8	15	420
AR 8		<0.5	16	22	30	1	33	15	20	43
AR 9		0.7	863	28	60	<1	269	5	19	1420



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**CERTIFICATE OF ANALYSIS BR22164504**

## CERTIFICATE COMMENTS

### 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 Shaun Kenny, Laboratory Manager  
C-IR07 S-IR08

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-MS42

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 James Lo, XRF Supervising Chemist  
ME-GRA05

### 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

BAG-01	C-IR07	CRU-21	LEV-01
LOG-22	ME-4ACD81	ME-GRA05	ME-ICP06
ME-MS42	ME-MS81	PUL-21	PUL-QC
S-IR08	TOT-ICP06	WEI-21	