



Australian Laboratory Services Pty. Ltd.

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**KILLARNEY HEIGHTS NSW 2087**

Page: 1

Total # Pages: 4 (A – E)

Plus Appendix Pages

Finalized Date: 11-JUL-2022

This copy reported on 12-JUL-2022

Account: BURGEOPTY

## QC 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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Page: 2 – A  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC CERTIFICATE OF ANALYSIS BR22164504

Sample Description	Method Analyte Units LOD	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	ME-GRA05	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.01	0.01
STANDARDS																
BAUX-CS5															21.41	
Target Range – Lower Bound															20.78	
Upper Bound															22.08	
CGL 208																
Target Range – Lower Bound																
Upper Bound																
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
GBM321-8																
Target Range – Lower Bound																
Upper Bound																
GGC-09																
Target Range – Lower Bound																
Upper Bound																
GGC-14																
Target Range – Lower Bound																
Upper Bound																
GS310-7																
Target Range – Lower Bound																
Upper Bound																
MRGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 460																
Target Range – Lower Bound																
Upper Bound																
OREAS 460		50.0	13.00	27.6	1.02	1.26	0.20	1.54	0.055	1.97	0.05	0.47	0.04	0.10		>102.00
Target Range – Lower Bound		48.6	12.30	26.3	0.90	1.17	0.15	1.39	0.048	1.88	0.02	0.41	<0.01	0.06		
Upper Bound		51.0	13.15	27.8	1.05	1.33	0.21	1.57	0.067	2.12	0.07	0.50	0.06	0.12		
OREAS 501																
Target Range – Lower Bound																
Upper Bound																
OREAS 601c																
Target Range – Lower Bound																
Upper Bound																
SY-4																



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Page: 2 - B  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
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**QC CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho
		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.5	0.05	0.01
STANDARDS															
BAUX-CS5															
Target Range - Lower Bound															
Upper Bound															
CGL 208				1030	91.4	55	15.10	6.29	3.83	1.18	24.4	6.86	4.8	3.37	1.27
Target Range - Lower Bound				935	83.9	41	14.75	5.70	3.32	1.11	23.3	6.41	<0.5	3.15	1.16
Upper Bound				1145	103.0	67	18.05	7.08	4.12	1.40	28.7	7.95	1.0	3.97	1.44
EMOG-17															
Target Range - Lower Bound															
Upper Bound															
GBM321-8															
Target Range - Lower Bound															
Upper Bound															
GGC-09		3.03	4.54												
Target Range - Lower Bound		2.84	4.42												
Upper Bound		3.06	4.76												
GGC-14		9.26	1.30												
Target Range - Lower Bound		8.90	1.27												
Upper Bound		9.58	1.39												
GS310-7		4.13	10.95												
Target Range - Lower Bound		4.00	10.50												
Upper Bound		4.32	11.30												
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
OREAS 460				914	1950	415	3.82	20.9	6.59	25.0	27.8	52.2	3.7	12.15	3.04
Target Range - Lower Bound				727	1620	349	3.30	17.75	5.38	20.4	24.2	45.0	2.2	10.55	2.48
Upper Bound				889	1980	437	4.06	21.8	6.64	25.0	29.8	55.1	4.6	13.05	3.06
OREAS 460															
Target Range - Lower Bound															
Upper Bound															
OREAS 501		0.27	0.31												
Target Range - Lower Bound		0.23	0.31												
Upper Bound		0.27	0.35												
OREAS 601c															
Target Range - Lower Bound															
Upper Bound															
SY-4				367	135.0	9	1.68	20.4	15.85	2.11	38.1	15.65	1.4	11.65	4.95



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Project: CCP-PKG01

Page: 2 – C  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

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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	ME-MS81
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5	0.5
STANDARDS																
BAUX-CS5																
Target Range – Lower Bound																
Upper Bound																
CGL 208		0.54	12.45	37.9	9.85	85.0	7.23	6.9	1265	0.8	1.06	20.9	0.51	12.85	87	30.0
Target Range – Lower Bound		0.44	11.55	33.9	8.82	79.3	6.60	4.7	1140	0.8	0.97	18.50	0.46	11.50	73	27.2
Upper Bound		0.56	14.20	41.7	10.80	97.4	8.14	7.3	1395	1.3	1.21	22.7	0.59	14.20	102	34.4
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
GBM321-8																
Target Range – Lower Bound																
Upper Bound																
GGC-09																
Target Range – Lower Bound																
Upper Bound																
GGC-14																
Target Range – Lower Bound																
Upper Bound																
GS310-7																
Target Range – Lower Bound																
Upper Bound																
MRGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 460		0.56	757	880	256	81.4	112.0	17.4	328	13.4	5.08	129.0	0.72	4.55	280	4.5
Target Range – Lower Bound		0.46	628	703	220	67.3	96.3	13.9	274	12.2	4.35	104.5	0.62	3.74	225	3.8
Upper Bound		0.58	768	859	268	82.7	117.5	18.1	336	15.2	5.33	127.5	0.78	4.68	286	6.3
OREAS 460																
Target Range – Lower Bound																
Upper Bound																
OREAS 501																
Target Range – Lower Bound																
Upper Bound																
OREAS 601c																
Target Range – Lower Bound																
Upper Bound																
SY-4		2.34	14.80	63.7	16.15	59.9	14.15	8.1	1320	0.8	2.86	1.74	2.57	0.97	7	<0.5



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Page: 2 - D  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC CERTIFICATE OF ANALYSIS BR22164504

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	1	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
STANDARDS																
BAUX-CS5																
Target Range – Lower Bound																
Upper Bound																
CGL 208		38.0	3.21	127												
Target Range – Lower Bound		34.7	2.99	117												
Upper Bound		42.6	3.72	145												
EMOG-17					>250	6.12	0.570	0.965	0.334	>250	6.7	1.44	2.13			
Target Range – Lower Bound					522	5.32	0.463	0.814	0.287	574	5.5	1.18	1.71			
Upper Bound					>250	6.52	0.638	1.005	0.353	>250	7.2	1.46	2.37			
GBM321-8														2.9	1.9	28
Target Range – Lower Bound														1.8	0.6	23
Upper Bound														4.0	2.8	30
GGC-09																
Target Range – Lower Bound																
Upper Bound																
GGC-14																
Target Range – Lower Bound																
Upper Bound																
GS310-7																
Target Range – Lower Bound																
Upper Bound																
MRGeo08														4.5	2.2	19
Target Range – Lower Bound														3.2	1.1	17
Upper Bound														5.6	3.4	23
OREAS 460		66.4	4.06	510												
Target Range – Lower Bound		53.9	3.49	424												
Upper Bound		66.1	4.33	520												
OREAS 460																
Target Range – Lower Bound																
Upper Bound																
OREAS 501																
Target Range – Lower Bound																
Upper Bound																
OREAS 601c					>250	21.3	0.217	0.501	0.001	33.2	7.6	7.32	1.23			
Target Range – Lower Bound					342	19.15	0.182	0.445		25.2	7.0	6.49	1.00			
Upper Bound					>250	23.4	0.258	0.555		34.2	9.0	7.95	1.40			
SY-4		132.0	16.65	641												



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Page: 2 - E  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC CERTIFICATE OF ANALYSIS BR22164504

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
STANDARDS								
BAUX-CS5								
Target Range - Lower Bound								
Upper Bound								
CGL 208								
Target Range - Lower Bound								
Upper Bound								
EMOG-17								
Target Range - Lower Bound								
Upper Bound								
GBM321-8		3790	10	62	2370	2120	18	1145
Target Range - Lower Bound		3380	<10	57	2020	1840	16	961
Upper Bound		3890	30	72	2480	2260	22	1180
GGC-09								
Target Range - Lower Bound								
Upper Bound								
GGC-14								
Target Range - Lower Bound								
Upper Bound								
GS310-7								
Target Range - Lower Bound								
Upper Bound								
MRGeo08		625	30	15	711	1065	11	821
Target Range - Lower Bound		586	<10	12	621	969	10	722
Upper Bound		676	50	18	761	1190	15	886
OREAS 460								
Target Range - Lower Bound								
Upper Bound								
OREAS 460								
Target Range - Lower Bound								
Upper Bound								
OREAS 501								
Target Range - Lower Bound								
Upper Bound								
OREAS 601c								
Target Range - Lower Bound								
Upper Bound								
SY-4								



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Page: 3 – A  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC CERTIFICATE OF ANALYSIS BR22164504

Sample Description	Method Analyte Units LOD	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	ME-ICP06	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.01	0.01
STANDARDS																
Target Range – Lower Bound																
Upper Bound																
SY-4		49.5	21.2	6.35	8.03	0.52	7.23	1.66	0.002	0.29	0.11	0.11	0.14	0.04		99.74
Target Range – Lower Bound		48.7	20.1	5.95	7.74	0.49	6.81	1.56	<0.002	0.25	0.08	0.10	0.11	<0.01		97.99
Upper Bound		51.1	21.3	6.47	8.36	0.59	7.39	1.76	0.005	0.32	0.13	0.16	0.17	0.06		>102.00
BLANKS																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		0.12	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.01	<0.01	<0.01		0.15
BLANK		0.16	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.01	<0.01	<0.01		0.19
Target Range – Lower Bound		<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		
Upper Bound		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02	0.02	0.02	0.02	0.02		
DUPLICATES																
AR 9		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	9.22	99.02
DUP		32.7	12.75	39.4	0.38	1.20	0.14	2.73	0.018	0.53	0.39	0.13	<0.01	0.03	9.21	99.61
Target Range – Lower Bound		31.7	12.40	38.3	0.36	1.16	0.12	2.65	0.016	0.51	0.37	0.10	<0.01	0.02	8.97	96.82
Upper Bound		33.4	13.05	40.3	0.40	1.24	0.15	2.80	0.020	0.55	0.40	0.13	0.02	0.04	9.46	101.81



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Page: 3 - B  
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		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La	
		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.01	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.5	0.05	0.01	0.1	
STANDARDS																	
Target Range – Lower Bound				306	109.5	<5	1.34	16.35	12.75	1.78	32.3	12.55	<0.5	9.95	3.86	52.1	
Upper Bound				375	134.5	23	1.66	20.1	15.65	2.22	39.7	15.45	2.4	12.25	4.74	63.9	
SY-4																	
Target Range – Lower Bound																	
Upper Bound																	
BLANKS																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
BLANK				<0.5	0.1	<5	0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.5	<0.05	<0.01	0.1	
BLANK				<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	0.1	<0.05	<0.5	<0.05	<0.01	<0.1	
Target Range – Lower Bound				<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05		<0.05	<0.01	<0.1	
Upper Bound				1.0	0.2	10	0.02	0.10	0.06	0.04	0.2	0.10		0.10	0.02	0.2	
BLANK		<0.01	<0.01														
BLANK		<0.01	<0.01														
Target Range – Lower Bound		<0.01	<0.01														
Upper Bound		0.02	0.02														
BLANK																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
DUPLICATES																	
AR 9		0.30	0.02	261	41.8	120	8.36	5.16	3.50	0.81	20.5	4.82	2.3	2.98	1.20	22.7	
DUP		0.31	0.02	270	43.2	123	8.88	5.37	3.81	0.83	21.3	4.93	2.3	3.12	1.26	23.5	
Target Range – Lower Bound		0.29	<0.01	252	40.3	110	8.18	4.95	3.44	0.76	19.8	4.58	1.6	2.85	1.16	21.8	
Upper Bound		0.32	0.03	279	44.7	133	9.06	5.58	3.87	0.88	22.0	5.17	3.0	3.25	1.30	24.4	





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Page: 3 – C  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC 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	ME-MS81	
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5	0.5	
STANDARDS																	
Target Range – Lower Bound		1.88	11.65	51.2	13.50	49.3	11.40	6.6	1070	0.7	2.33	1.11	2.06	0.66	<5	<0.5	
Upper Bound		2.32	14.35	62.8	16.50	60.7	14.00	9.4	1310	1.1	2.87	1.47	2.54	0.94	18	2.3	
SY-4																	
Target Range – Lower Bound																	
Upper Bound																	
BLANKS																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
BLANK		<0.01	<0.05	<0.1	<0.02	<0.2	<0.03	0.8	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<0.5	
BLANK		<0.01	<0.05	<0.1	<0.02	<0.2	<0.03	<0.5	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<0.5	
Target Range – Lower Bound		<0.01	<0.05	<0.1	<0.02	<0.2	<0.03	<0.5	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<0.5	
Upper Bound		0.02	0.10	0.2	0.04	0.4	0.06	1.0	0.2	0.2	0.02	0.10	0.02	0.10	10	1.0	
BLANK																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
BLANK																	
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
DUPLICATES																	
AR 9		0.64	12.40	17.6	4.66	117.0	3.88	4.9	26.6	0.9	0.78	13.65	0.54	7.58	154	2.5	
DUP		0.54	12.95	19.0	4.68	123.5	3.98	5.1	25.8	0.9	0.81	14.05	0.56	8.07	161	5.2	
Target Range – Lower Bound		0.55	12.00	17.3	4.42	114.0	3.70	4.3	24.8	0.8	0.75	13.10	0.51	7.38	145	3.2	
Upper Bound		0.63	13.35	19.3	4.92	126.5	4.16	5.8	27.6	1.0	0.84	14.60	0.59	8.27	170	4.5	



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Project: CCP-PKG01

Page: 3 - D  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

**QC CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	1	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
STANDARDS																
Target Range – Lower Bound		107.0	13.30	544												
Upper Bound		131.0	16.30	667												
SY-4																
Target Range – Lower Bound																
Upper Bound																
BLANKS																
BLANK														<0.5	<0.5	<1
Target Range – Lower Bound														<0.5	<0.5	<1
Upper Bound														1.0	1.0	2
BLANK					<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02			
Target Range – Lower Bound					<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02			
Upper Bound					0.2	0.02	0.010	0.010	0.002	0.10	0.4	0.02	0.04			
BLANK		<0.1	<0.03	<1												
BLANK		<0.1	<0.03	<1												
Target Range – Lower Bound		<0.1	<0.03	<1												
Upper Bound		0.2	0.06	2												
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
DUPLICATES																
AR 9		40.8	3.47	107	9.8	0.45	0.044	0.034	<0.001	0.18	0.2	0.01	0.16	<0.5	0.7	863
DUP		42.8	3.50	109	9.9	0.45	0.035	0.033	<0.001	0.20	0.3	0.01	0.16	<0.5	0.9	875
Target Range – Lower Bound		39.6	3.28	102	9.3	0.42	0.032	0.027	<0.001	0.13	<0.2	<0.01	0.13	<0.5	<0.5	825
Upper Bound		44.0	3.69	114	10.4	0.48	0.047	0.040	0.002	0.25	0.4	0.02	0.19	1.0	1.0	913



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Project: CCP-PKG01

Page: 3 - E  
Total # Pages: 4 (A - E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

## QC CERTIFICATE OF ANALYSIS BR22164504

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
STANDARDS								
Target Range - Lower Bound								
Upper Bound								
SY-4								
Target Range - Lower Bound								
Upper Bound								
BLANKS								
BLANK		<1	<10	<1	1	<2	<1	<2
Target Range - Lower Bound		<1		<1	<1	<2		<2
Upper Bound		2		2	2	4		4
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
DUPLICATES								
AR 9		28	60	<1	269	5	19	1420
DUP		28	60	<1	274	8	22	1470
Target Range - Lower Bound		26	50	<1	257	4	18	1370
Upper Bound		30	70	2	286	9	23	1520



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Page: 4 – A  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

**QC CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	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	ME-ICP06	TOT-ICP06
		SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.01	0.01
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Project: CCP-PKG01

Page: 4 – C  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

**QC 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
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.05	0.1	0.02	0.2	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.05	5
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES													



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Project: CCP-PKG01

Page: 4 – D  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

**QC CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	1	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES														



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Project: CCP-PKG01

Page: 4 – E  
Total # Pages: 4 (A – E)  
Plus Appendix Pages  
Finalized Date: 11-JUL-2022  
Account: BURGEOPTY

**QC CERTIFICATE OF ANALYSIS BR22164504**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	1	1	2	1	2
ORIGINAL DUP Target Range – Lower Bound Upper Bound		DUPLICATES						





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Page: **Appendix 1**  
Total # Appendix Pages: **1**  
Finalized Date: **11-JUL-2022**  
Account: **BURGEOPTY**

Project: CCP-PKG01

**QC 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	