



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

CERTIFICATE

The following have access to data associated with this certificate:

To: **ALS MINERALS - SALES**
ATTN: ALS MINERALS

CANADA

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 *****

Page: 1

Total # Pages: 2 (A - D)

Plus Appendix Pages

Finalized Date: 21-OCT-2016

This copy reported on 24-OCT-2016

Account: MICK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS61	48 element four acid ICP-MS	

Signature:

Shaun Kenny, Brisbane Laboratory Manager



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: S. Poke

Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 21-OCT-2016
Account: MICK

CERTIFICATE OF ANALYSIS BU16171856

Sample Description	Method Analyte Units LOR	WEI-21	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
		Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.02	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
50037		1.47	0.03	0.26	1.6	30	0.15	0.05	0.03	<0.02	23.9	3.3	1500	0.40	3.8	0.90
50038		1.80	0.08	3.82	14.5	200	5.13	0.14	0.58	0.03	51.8	5.0	109	25.7	10.4	9.46
50039		3.04	0.01	5.08	2.1	110	1.71	0.05	0.02	<0.02	87.8	6.9	215	6.21	11.6	4.24
50040		1.93	0.02	0.39	0.2	20	0.14	0.30	0.01	<0.02	15.60	0.9	156	0.49	2.7	0.74
50041		3.84	0.02	0.74	1.2	20	0.30	0.07	0.01	<0.02	13.85	2.9	266	1.03	5.1	1.97
50042		2.39	0.02	0.22	0.6	10	0.13	0.06	0.01	<0.02	4.70	0.8	101	0.35	2.4	0.93



Australian Laboratory Services Pty. Ltd.
 32 Shand Street
 Stafford
 Brisbane QLD 4053
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
 www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
 Accreditation No: 825, Corporate Site No: 818.

Project: S. Poke

Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2016
 Account: MICK

CERTIFICATE OF ANALYSIS BU16171856

Sample Description	Method Analyte Units LOR	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
		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
50037		1.51	<0.05	2.9	<0.005	0.10	12.9	11.4	0.04	119	0.68	0.01	3.7	5.1	50
50038		9.96	0.19	2.9	0.035	0.72	23.6	29.8	0.23	209	0.74	0.04	13.6	36.1	820
50039		13.35	0.15	4.1	0.031	1.23	38.9	26.8	0.14	72	0.53	0.03	10.0	66.5	380
50040		1.47	<0.05	1.0	0.011	0.21	7.6	2.2	0.03	77	0.40	0.01	1.8	2.9	30
50041		1.96	<0.05	1.1	0.017	0.25	6.5	2.8	0.04	114	0.40	0.01	1.7	13.8	80
50042		0.74	<0.05	0.6	<0.005	0.08	2.4	2.5	0.01	84	0.26	0.01	1.5	3.8	20



Australian Laboratory Services Pty. Ltd.
 32 Shand Street
 Stafford
 Brisbane QLD 4053
 Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
 www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
 Accreditation No: 825, Corporate Site No: 818.

Project: S. Poke

Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 21-OCT-2016
 Account: MICK

CERTIFICATE OF ANALYSIS BU16171856

Sample Description	Method Analyte Units LOR	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
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
50037		4.9	<0.002	0.01	3.18	1.0	<1	0.6	7.7	0.23	<0.05	3.60	0.121	0.04	0.9	10
50038		110.0	0.003	0.19	1.05	8.3	1	1.3	22.9	0.87	<0.05	7.01	0.402	0.29	2.2	76
50039		60.6	<0.002	0.01	0.71	12.6	1	3.9	15.0	0.71	<0.05	14.15	0.402	0.30	2.8	87
50040		8.7	<0.002	<0.01	0.62	1.4	<1	0.6	3.2	0.11	<0.05	1.25	0.062	0.05	0.5	8
50041		17.2	<0.002	<0.01	0.60	2.7	<1	0.4	4.0	0.12	<0.05	2.12	0.058	0.11	0.6	20
50042		4.3	<0.002	<0.01	0.58	0.7	<1	0.5	2.9	0.06	<0.05	0.96	0.050	0.03	0.4	6



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

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

www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: S. Poke

Page: 2 - D
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 21-OCT-2016
Account: MICK

CERTIFICATE OF ANALYSIS BU16171856

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-TL43
		W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	0.001
50037		2.0	7.7	68	96.1	0.001
50038		39.4	13.3	31	108.0	0.001
50039		7.0	12.9	25	133.5	0.001
50040		0.7	5.6	11	32.1	0.001
50041		0.8	3.3	20	32.9	<0.001
50042		1.7	2.6	10	20.5	<0.001



Australian Laboratory Services Pty. Ltd.

32 Shand Street
Stafford
Brisbane QLD 4053
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218
www.alsglobal.com

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate
Accreditation No: 825, Corporate Site No: 818.

Project: S. Poke

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21-OCT-2016
Account: MICK

CERTIFICATE OF ANALYSIS BU16171856

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

REE's may not be totally soluble in this method.
ME-MS61

ACCREDITATION COMMENTS

Applies to Method:

NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist.
Au-TL43 ME-MS61

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of
ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia
Au-TL43 ME-MS61

Applies to Method:

Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.
CRU-21 PUL-31b WEI-21