



Australian Laboratory Services Pty. Ltd.

32 Shand Street
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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 *****

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Finalized Date: 19-SEP-2016
Account: MICK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um
PUL-QC	Pulverizing QC Test

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



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CERTIFICATE OF ANALYSIS BU16150968

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
50035		0.72		0.03	2.54	3.4	250	0.62	0.10	0.02	<0.02	39.6	0.7	31	2.60	4.7
50036		1.80	89.3	0.02	7.76	6.8	70	0.83	0.29	0.13	<0.02	110.0	3.2	125	3.02	22.4



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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
		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
50035		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
50036		37.7	50.3	<0.002	0.01	0.56	2.9	1	1.1	14.7	0.48	<0.05	6.71	0.186	0.30	1.8
		18.0	22.5	<0.002	0.01	1.21	14.3	1	2.5	14.4	0.97	0.08	14.60	0.437	0.12	6.0



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-TL43
		V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.001
50035		42	1.2	7.7	6	89.9	0.001
50036		124	19.8	9.3	16	165.5	0.001



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	CERTIFICATE COMMENTS
	<p>ANALYTICAL COMMENTS</p> <p>Applies to Method: REE's may not be totally soluble in this method. ME-MS61</p> <p>ACCREDITATION COMMENTS</p> <p>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</p> <p>LABORATORY ADDRESSES</p> <p>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</p> <p>Applies to Method: Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU-21 LEV-01 LOG-22 PUL-31b PUL-QC WEI-21</p>