



Australian Laboratory Services Pty. Ltd.
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www.alsglobal.com

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Plus Appendix Pages
Finalized Date: 26-OCT-2015
Account: MICK

CERTIFICATE

The following have access to data associated with this certificate:

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	VARIABLE
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Ag-OG62h	High Grade Ag - 4-Acid	VARIABLE
ME-OG62h	Extended Ore Grade 4-Acid	ICP-AES
Pb-OG62h	High Grade Pb -- 4Acid	VARIABLE
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

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 *****

Signature:

Ricky Gelston, Laboratory Manager, Burnie



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CERTIFICATE OF ANALYSIS BU15153268

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA25 Au ppm 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
12		2.47	<0.01	0.46	8.29	10.4	130	4.34	0.72	0.17	0.33	59.8	37.8	245	3.03	66.0
13		4.11	1.03	>100	0.18	535	60	0.07	50.6	0.04	466	7.20	1.3	3	0.24	>10000



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Sample Description	Method Analyte Units LOR	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
12		189.5	17.1	<0.002	0.08	2.51	18.9	3	6.8	33.9	2.35	0.06	12.35	1.025	0.20	4.0
13		>10000	3.5	<0.002	>10.0	3420	0.5	9	99.4	2.4	<0.05	0.05	0.50	0.014	12.75	0.6



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Ag-GRA21 Ag ppm 5	Ag-OG62h Ag ppm 10	Pb-OG62h Pb % 0.1
12		155	4.0	13.4	164	188.0							
13		5	2.9	2.0	>10000	5.8	>1500	1.370	>20.0	9.75	1990	1980	52.3



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	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61			
	LABORATORY ADDRESSES			
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Ag-GRA21			
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia.			
	Ag-OG62	Ag-OG62h	Cu-OG62	ME-MS61
	ME-OG62	ME-OG62h	Pb-OG62	Pb-OG62h
	Zn-OG62			
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.			
	Au-AA25	CRU-21	LEV-01	PUL-31b
	WEI-21			