



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/geochemistry

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:

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Plus Appendix Pages
Finalized Date: 6-JUL-2018
This copy reported on 9-JUL-2018
Account: MICK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
PUL-31b	Pulv. Lg split to >80% -75um

ANALYTICAL PROCEDURES

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

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 BU18149477

Sample Description	Method Analyte Units LOD	WEI-21	Au-TL43	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
50063		0.27	0.011	0.40	1.26	845	80	1.49	90.7	1.18	0.24	37.1	8.6	110	1.43
50064		0.21	0.001	0.10	1.09	15.1	50	0.29	0.70	0.06	0.06	23.6	3.1	164	1.51
50065		2.09	0.001	0.36	3.24	13.0	160	0.79	1.73	0.07	0.17	37.2	6.3	80	5.48
50066		3.81	0.003	0.28	3.13	47.1	140	1.33	13.75	0.12	0.10	40.5	6.4	84	5.51



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CERTIFICATE OF ANALYSIS BU18149477

Sample Description	Method Analyte Units LOD	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
		Fe	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
		0.01	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
50063		3.84	3.53	0.06	1.5	0.360	0.28	18.8	11.2	0.12	563	510	0.08	<0.1	14.2	130
50064		0.52	1.90	<0.05	2.1	0.014	0.15	11.9	11.5	0.04	72	18.55	0.03	6.6	11.2	80
50065		3.75	8.06	0.08	2.7	0.189	0.72	18.7	14.7	0.21	389	1.44	0.05	9.2	23.3	210
50066		6.76	10.80	0.11	2.6	0.239	0.56	19.8	15.6	0.17	821	69.2	0.04	10.1	16.9	170

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CERTIFICATE OF ANALYSIS BU18149477

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
50063		16	610	7.4	130	48.0
50064		10	580	4.2	25	60.4
50065		48	2.9	8.2	77	95.9
50066		52	2000	8.1	108	97.6

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CERTIFICATE OF ANALYSIS BU18149477

	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 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 Au-TL43 ME-MS61
	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 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. LEV-01 PUL-31b WEI-21