



Australian Laboratory Services Pty. Ltd.

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www.alsglobal.com/geochemistry

To: ENIGMA MINING LIMITED

PO BOX 1126

SUBIACO WA 6904

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Total # Pages: 2 (A – E)

Plus Appendix Pages

Finalized Date: 11-JAN-2024

Account: HALCON

CERTIFICATE BR23364112

Project: Moonlight

P.O. No.: 2043

This report is for 11 samples of Soil submitted to our lab in Mount Isa, QLD, Australia on 30-NOV-2023.

The following have access to data associated with this certificate:

STEPHEN WALSH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
MS61L-REE	REE Add-on to ME-MS61L	
ME-MS61L	Super Trace Lowest DL 4A by 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 BR23364112

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		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	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
MS23001		5.07	0.033	2.01	1.56	84	0.44	0.130	0.09	<0.005	29.3	8.83	29.7	1.37	7.17	1.260
MS23002		2.10	0.068	14.35	8.35	171	1.41	0.544	0.05	<0.005	127.5	7.70	91.4	3.27	24.2	5.53
MS23003		1.73	0.040	13.85	11.85	144	1.74	0.476	0.07	<0.005	99.6	11.15	74.8	6.75	25.4	6.17
MS23004		2.54	0.038	10.05	4.61	291	0.80	0.408	0.16	<0.005	89.4	3.16	59.5	1.76	11.00	2.18
MS23005		2.98	0.048	4.45	2.58	83	0.90	0.275	0.14	0.011	68.7	8.58	44.4	3.36	14.70	1.880
MS23006		3.27	0.043	5.25	2.87	90	0.97	0.299	0.16	0.007	67.9	8.49	45.4	3.84	16.10	2.17
MS23007		3.75	0.051	6.55	2.99	90	1.14	0.294	0.11	0.006	73.5	9.78	47.3	4.90	18.70	2.30
MS23008		2.70	0.062	4.85	2.34	110	0.96	0.293	0.17	0.009	76.2	8.58	46.6	4.59	17.30	1.860
MS23009		3.22	0.046	8.71	2.94	114	1.24	0.352	0.08	<0.005	77.1	11.00	58.2	5.69	20.6	2.69
MS23010		3.04	0.052	5.54	2.32	108	0.98	0.294	0.20	0.005	63.4	8.94	48.4	4.17	17.55	2.02
MS23011		4.39	0.033	3.74	4.44	42	0.40	0.246	0.03	<0.005	19.65	3.48	95.8	1.34	9.27	3.68



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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001
MS23001		4.34	0.06	1.575	0.015	0.16	13.90	5.3	0.03	203	0.43	0.012	6.49	5.22	0.012
MS23002		36.1	0.51	4.65	0.107	0.26	39.8	27.0	0.07	470	1.46	0.018	14.85	24.0	0.017
MS23003		33.5	0.41	4.21	0.094	0.27	32.4	31.3	0.09	341	2.19	0.015	14.60	30.6	0.022
MS23004		22.3	0.13	4.49	0.050	0.37	52.5	8.6	0.10	68.0	1.03	0.076	12.10	5.65	0.066
MS23005		10.95	0.09	2.70	0.039	0.16	29.1	10.5	0.05	165.0	0.81	0.015	10.40	9.61	0.020
MS23006		12.75	0.11	2.93	0.042	0.19	32.9	12.1	0.07	184.5	0.97	0.017	11.20	11.20	0.023
MS23007		13.85	0.18	3.11	0.046	0.19	35.5	14.6	0.06	189.0	0.97	0.017	12.50	13.10	0.025
MS23008		11.40	0.13	3.01	0.041	0.20	39.2	11.3	0.06	343	0.85	0.018	12.35	10.75	0.022
MS23009		20.1	0.17	3.78	0.064	0.24	40.5	17.7	0.08	255	1.04	0.018	14.50	16.80	0.033
MS23010		13.65	0.11	3.05	0.042	0.21	33.1	12.6	0.07	249	0.92	0.018	12.20	12.45	0.026
MS23011		10.25	0.07	1.750	0.042	0.07	10.10	4.6	0.02	107.0	0.99	0.005	5.98	6.75	0.012



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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE	MS61L-REE
		W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm 0.008	ppm 0.01	ppm 0.2	ppm 0.1	ppm 0.005	ppm 0.004	ppm 0.004	ppm 0.005	ppm 0.002	ppm 0.002	ppm 0.005	ppm 0.004	ppm 0.004	ppm 0.002
MS23001		0.749	8.75	5.3	63.2	1.540	0.858	0.466	1.720	0.301	0.128	12.60	3.27	2.27	0.270
MS23002		2.10	8.70	33.4	165.0	1.600	1.095	0.440	1.435	0.343	0.203	18.30	6.17	2.32	0.261
MS23003		2.05	12.05	26.7	155.0	2.16	1.425	0.623	2.15	0.470	0.250	19.20	5.69	3.05	0.378
MS23004		1.715	8.72	13.4	156.0	1.580	1.030	0.616	1.800	0.325	0.188	27.3	8.76	3.48	0.278
MS23005		1.295	25.4	11.9	106.5	4.41	2.40	1.310	4.94	0.877	0.325	31.1	7.72	6.08	0.780
MS23006		1.415	25.8	12.9	117.0	4.48	2.53	1.395	5.31	0.899	0.341	34.0	8.72	6.49	0.823
MS23007		1.555	29.9	13.1	123.5	5.19	2.80	1.640	6.07	1.025	0.374	37.9	9.57	7.40	0.930
MS23008		1.540	37.8	12.4	117.0	6.46	3.47	2.09	7.86	1.285	0.423	48.7	11.70	9.54	1.175
MS23009		1.885	25.2	20.1	143.0	4.48	2.51	1.525	5.30	0.900	0.360	37.9	9.65	7.17	0.798
MS23010		1.540	27.5	14.5	124.0	4.83	2.63	1.545	5.83	0.958	0.348	37.6	9.16	7.31	0.876
MS23011		0.794	4.78	7.3	67.0	0.838	0.510	0.234	0.906	0.167	0.089	7.66	2.09	1.250	0.149



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Sample Description	Method Analyte Units LOD	MS61L-REE Yb ppm 0.004
MS23001		0.840
MS23002		1.365
MS23003		1.660
MS23004		1.210
MS23005		2.26
MS23006		2.30
MS23007		2.59
MS23008		2.98
MS23009		2.40
MS23010		2.45
MS23011		0.565



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	CERTIFICATE COMMENTS			
Applies to Method:	LABORATORY ADDRESSES			
	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			
	LEV-01	LOG-22	ME-MS61L	MS61L-REE
	SCR-41	WEI-21		