



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

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

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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
GROUND FLOOR
100 GEORGE STREET
PARRAMATTA NSW 2150

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Plus Appendix Pages

Finalized Date: 17-OCT-2019

This copy reported on 13-MAY-2020

Account: EARTOP

CERTIFICATE AD19243910

This report is for 15 Rock samples submitted to our lab in Adelaide, SA, Australia on 30-SEP-2019.

The following have access to data associated with this certificate:

EARTH AI OPERATIONS

ROMAN TESLYUK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-32	Pulverize 1000g to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia 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:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS AD19243910

Sample Description	Method Analyte Units LOD	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
EAIELK1909087F		0.11	83.7	28.2	3.04	0.08	0.80	0.01	0.041	0.02	2.3	0.4	0.05	61	1.05	<0.01
EAIELK1909084R		0.06	53.7	20.0	2.06	0.14	1.13	0.01	0.077	0.02	4.6	0.6	0.02	83	39.9	<0.01
EAIELK1909089R		<0.05	77.6	34.2	1.71	0.13	0.44	0.01	0.029	0.01	2.9	0.2	0.01	22	2.06	<0.01
EAIELK1909094R		0.14	188.5	22.9	4.90	0.07	1.42	0.01	0.079	0.02	2.2	0.5	0.01	21	6.16	<0.01
EAIELK1909098R		<0.05	21.5	27.1	1.02	0.11	0.08	<0.01	0.023	0.01	0.8	0.2	0.01	<5	2.86	<0.01
EAIELK1909120R		0.19	11.8	4.47	5.19	<0.05	0.58	0.01	0.031	0.05	5.4	0.9	0.04	55	0.37	<0.01
EAIELK1909123R		0.09	3.9	0.59	1.20	<0.05	0.11	<0.01	0.005	0.02	2.1	0.5	0.01	32	0.22	<0.01
EAIELK1909126R		0.09	31.1	22.1	2.90	0.21	0.39	<0.01	0.063	0.01	1.5	0.3	0.01	74	1.68	<0.01
EAIELK1909138R		<0.05	61.3	32.8	0.87	0.18	0.12	0.01	0.021	<0.01	2.5	0.2	<0.01	786	0.12	<0.01
EAIELK1909143R		0.19	70.2	24.0	1.05	0.10	0.29	<0.01	0.005	0.03	1.7	0.3	<0.01	55	0.63	<0.01
EAIELK1909145R		0.05	216	14.15	1.02	0.08	0.21	0.01	0.013	0.01	0.9	0.2	0.01	140	4.42	<0.01
EAIELK1909147R		0.07	146.0	30.3	1.03	0.11	0.25	<0.01	0.009	0.02	2.7	0.2	<0.01	38	5.19	<0.01
EAIELK1909148R		0.05	140.0	34.1	1.09	0.54	0.09	<0.01	0.046	0.01	2.7	0.2	0.01	177	6.69	<0.01
EAIELK1909150R		0.53	22.7	29.3	2.12	0.10	0.29	<0.01	0.015	0.03	1.3	0.3	<0.01	35	0.21	<0.01
EAIELKN2806001R		0.06	106.5	24.4	1.89	0.09	0.33	<0.01	0.058	0.01	2.6	0.3	0.02	54	0.72	<0.01



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CERTIFICATE OF ANALYSIS AD19243910

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
EAIELK1909087F		0.35	3.2	110	13.8	1.6	<0.001	0.04	0.28	6.5	0.2	0.7	9.3	<0.01	0.01
EAIELK1909084R		0.21	3.1	180	36.8	1.0	<0.001	0.09	1.09	4.1	1.0	0.4	10.9	<0.01	0.05
EAIELK1909089R		0.10	3.1	480	30.2	0.5	<0.001	0.10	0.63	5.5	<0.2	0.3	4.7	<0.01	0.02
EAIELK1909094R		0.20	4.5	230	21.0	1.2	0.001	0.05	0.50	11.2	0.5	0.9	4.8	<0.01	0.03
EAIELK1909098R		0.08	1.5	2750	3.5	0.3	<0.001	0.02	0.07	2.1	<0.2	0.2	4.0	<0.01	0.01
EAIELK1909120R		<0.05	3.4	300	6.5	3.7	<0.001	0.01	0.98	7.0	<0.2	1.8	14.0	<0.01	<0.01
EAIELK1909123R		0.06	1.4	30	5.4	1.2	<0.001	0.06	0.16	0.5	<0.2	0.5	27.8	<0.01	0.02
EAIELK1909126R		0.14	7.3	70	23.6	0.8	<0.001	0.02	0.31	5.6	<0.2	0.5	3.0	<0.01	0.01
EAIELK1909138R		0.10	7.9	440	18.9	0.3	<0.001	0.05	0.11	9.2	<0.2	0.2	2.8	<0.01	0.01
EAIELK1909143R		0.05	8.1	540	44.3	2.0	<0.001	0.04	0.25	3.5	<0.2	0.3	2.9	<0.01	0.01
EAIELK1909145R		0.15	11.5	300	30.1	0.4	<0.001	0.02	0.87	8.7	<0.2	0.3	3.1	<0.01	0.01
EAIELK1909147R		0.12	11.5	390	25.7	1.0	<0.001	0.04	0.32	5.1	<0.2	0.3	2.0	<0.01	0.01
EAIELK1909148R		0.10	46.8	2750	31.3	0.4	<0.001	0.02	1.07	16.1	<0.2	0.2	2.3	<0.01	<0.01
EAIELK1909150R		0.27	27.6	120	3.8	1.8	<0.001	0.03	0.14	3.7	<0.2	0.6	2.9	<0.01	0.01
EAIELKN2806001R		0.17	4.1	150	64.7	0.5	<0.001	0.08	0.40	2.6	0.5	0.3	12.5	<0.01	0.02



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CERTIFICATE OF ANALYSIS AD19243910

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method:

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

ACCREDITATION COMMENTS

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
Au-ICP21 ME-MS41

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia
Au-ICP21 ME-MS41

Applies to Method:

Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.
LEV-01 LOG-22 LOG-24 PUL-32
PUL-QC WEI-21