



Australian Laboratory Services Pty. Ltd.

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Finalized Date: 25-SEP-2018

This copy reported on 28-SEP-2018

Account: EARTOP

CERTIFICATE AD18229864

This report is for 17 Soil samples submitted to our lab in Adelaide, SA, Australia on 17-SEP-2018.

The following have access to data associated with this certificate:

EARTH AI OPERATIONS

BAILEY PAYTEN

ROMAN TESLYUK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

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 AD18229864

Sample Description	Method Analyte Units LOD	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
EADL006S		0.18	<0.001	0.01	1.53	0.5	<10	80	0.95	0.09	0.29	0.02	33.0	29.7	34	0.12
EADL010S		0.17	<0.001	0.01	1.05	0.3	<10	60	0.78	0.07	0.20	0.02	28.2	28.6	26	0.14
EADL020S		0.13	<0.001	0.01	2.04	0.5	<10	60	0.80	0.07	0.76	0.03	28.9	35.8	22	0.10
EADL031S		0.12	<0.001	<0.01	1.99	0.4	<10	60	0.73	0.08	1.00	0.03	32.2	41.5	21	0.05
EADL043S		0.25	<0.001	0.01	1.08	0.5	<10	70	0.72	0.06	0.18	0.02	28.9	29.9	25	0.12
EADL065S		0.17	0.001	0.01	1.29	0.4	<10	120	1.41	0.09	0.25	0.03	52.3	47.6	24	0.15
EADL075S		0.20	0.001	0.01	1.07	0.4	<10	100	1.27	0.11	0.17	0.03	54.2	40.9	22	0.19
EADL076S		0.18	0.001	0.01	1.08	0.5	<10	110	1.37	0.10	0.20	0.05	57.0	46.0	22	0.22
EADL080S		0.19	0.001	0.01	1.34	0.5	<10	160	1.30	0.10	0.45	0.06	64.2	47.7	18	0.18
EADL088S		0.20	0.001	0.01	1.27	0.5	<10	110	1.26	0.12	0.18	0.02	49.6	37.2	20	0.11
EADL094S		0.17	0.001	0.01	1.46	0.4	<10	120	1.43	0.11	0.20	0.01	48.7	34.8	23	0.12
EADL116S		0.20	<0.001	0.01	2.27	0.4	<10	80	0.90	0.06	0.44	0.03	38.0	48.8	38	0.19
EADL121S		0.19	0.001	0.01	2.33	1.3	10	70	0.55	0.07	3.18	0.02	22.4	30.5	70	0.47
EADL129S		0.22	0.001	0.01	2.82	0.5	<10	40	0.80	0.06	0.71	0.01	26.6	53.3	26	0.11
EADL145S		0.39	0.002	0.02	1.29	4.2	<10	50	1.29	0.25	0.11	0.01	28.6	14.6	57	0.43
EADL166S		0.18	<0.001	0.01	1.44	0.4	<10	70	0.65	0.09	0.35	0.03	32.6	37.5	28	0.09
EADL180S		0.17	0.001	0.01	2.99	0.8	<10	30	0.59	0.07	0.75	0.01	25.5	50.7	69	0.21



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CERTIFICATE OF ANALYSIS AD18229864

Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
EADL006S		16.4	8.25	10.60	0.06	0.27	0.02	0.056	0.08	20.3	5.4	0.38	725	0.38	0.01	0.15
EADL010S		20.7	5.94	8.98	0.06	0.19	0.02	0.046	0.09	16.3	10.6	0.21	779	0.38	0.01	0.38
EADL020S		44.8	6.56	10.35	0.06	0.49	0.02	0.039	0.10	16.1	10.4	1.56	487	0.25	0.02	0.44
EADL031S		54.0	6.59	10.60	0.07	0.57	0.01	0.038	0.18	14.9	11.8	1.81	614	0.27	0.02	0.89
EADL043S		19.1	5.44	8.39	0.05	0.16	0.03	0.045	0.09	15.4	8.9	0.28	831	0.33	0.01	0.25
EADL065S		79.7	11.10	13.35	0.09	0.53	0.03	0.071	0.22	28.4	5.8	0.45	1280	0.79	0.01	0.09
EADL075S		24.9	10.60	12.05	0.08	0.43	0.02	0.067	0.16	29.4	4.2	0.27	907	0.72	0.01	0.12
EADL076S		31.7	9.97	12.00	0.10	0.50	0.03	0.068	0.16	30.8	4.5	0.25	1240	0.79	0.01	0.12
EADL080S		30.9	7.70	11.60	0.08	0.38	0.03	0.066	0.16	32.5	4.2	0.26	1370	0.49	0.01	0.50
EADL088S		45.1	8.46	11.70	0.08	0.45	0.02	0.064	0.14	27.6	3.1	0.22	788	0.49	0.01	0.21
EADL094S		68.5	10.60	13.35	0.08	0.76	0.02	0.077	0.15	28.5	5.5	0.27	622	0.37	0.01	<0.05
EADL116S		22.8	8.65	11.00	0.07	0.18	0.03	0.057	0.09	20.9	8.4	0.67	953	0.32	0.01	0.20
EADL121S		58.1	4.63	9.12	0.06	0.31	0.01	0.023	0.03	10.8	24.1	5.93	483	0.13	0.03	0.21
EADL129S		202	7.29	15.65	0.10	0.47	0.01	0.059	0.07	13.0	27.2	3.82	1050	0.35	0.02	0.21
EADL145S		47.9	5.38	8.24	0.06	0.16	0.01	0.047	0.09	16.8	6.6	0.15	280	0.60	0.01	0.40
EADL166S		33.9	9.62	9.09	0.06	0.45	0.02	0.048	0.09	17.4	7.8	0.64	606	0.46	0.01	0.15
EADL180S		253	6.72	16.15	0.11	0.35	0.01	0.044	0.05	14.1	23.5	4.95	1290	0.32	0.03	0.15



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.2
EADL006S		17.0	100	8.0	6.1	0.001	0.01	<0.05	27.6	0.2	1.5	13.7	<0.01	0.04	6.7
EADL010S		15.8	170	6.3	10.1	<0.001	0.02	<0.05	23.4	<0.2	1.3	14.0	<0.01	0.02	5.1
EADL020S		27.9	140	6.6	5.5	<0.001	0.01	<0.05	18.3	<0.2	1.2	20.8	<0.01	<0.01	4.8
EADL031S		31.2	140	6.8	6.6	<0.001	0.02	<0.05	18.6	<0.2	1.2	23.0	<0.01	0.01	4.4
EADL043S		17.0	150	6.1	10.0	<0.001	0.01	<0.05	20.1	<0.2	1.1	10.9	<0.01	0.01	4.6
EADL065S		19.7	130	16.4	21.0	0.001	0.01	<0.05	23.3	<0.2	2.0	11.5	<0.01	0.02	8.0
EADL075S		16.1	140	12.1	21.3	0.001	0.01	<0.05	21.2	<0.2	1.9	9.5	<0.01	0.02	7.6
EADL076S		17.0	150	12.3	20.5	0.001	0.01	<0.05	22.3	0.2	2.0	9.4	<0.01	0.01	7.7
EADL080S		14.0	240	12.7	19.0	<0.001	0.02	<0.05	23.8	<0.2	1.8	16.9	<0.01	0.01	6.9
EADL088S		13.4	140	19.3	15.5	<0.001	0.01	<0.05	23.0	0.3	1.8	8.4	<0.01	0.01	7.2
EADL094S		15.5	110	30.2	14.3	0.001	0.01	<0.05	25.7	<0.2	2.1	10.6	<0.01	0.03	8.7
EADL116S		32.7	170	7.9	4.2	0.001	0.01	<0.05	35.4	0.2	1.1	14.8	<0.01	0.01	5.9
EADL121S		42.1	110	9.3	3.7	<0.001	0.01	<0.05	11.4	<0.2	0.8	126.5	<0.01	0.01	2.5
EADL129S		53.2	250	6.9	2.5	<0.001	0.01	<0.05	25.3	<0.2	1.2	19.5	<0.01	0.01	3.6
EADL145S		22.2	110	10.6	8.3	<0.001	0.01	0.24	13.2	0.2	1.6	7.2	<0.01	0.07	6.2
EADL166S		28.0	120	11.4	7.9	0.001	0.01	<0.05	24.7	<0.2	1.2	15.7	<0.01	0.01	5.1
EADL180S		56.6	320	7.2	1.6	<0.001	0.01	<0.05	24.7	0.2	0.8	17.6	<0.01	<0.01	2.6



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Sample Description	Method Analyte Units LOD	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
		Ti	U	V	W	Y	Zn
		ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2
EADL006S		0.04	0.75	284	<0.05	22.2	42
EADL010S		0.04	0.59	212	<0.05	18.15	30
EADL020S		0.02	0.69	246	0.07	17.15	49
EADL031S		<0.02	0.66	240	0.09	15.50	48
EADL043S		0.04	0.50	188	<0.05	16.45	30
EADL065S		0.07	0.92	522	<0.05	31.0	288
EADL075S		0.09	0.98	416	<0.05	29.2	93
EADL076S		0.09	1.04	428	<0.05	34.6	149
EADL080S		0.06	0.87	277	<0.05	36.2	77
EADL088S		0.06	0.66	316	<0.05	28.7	41
EADL094S		0.06	0.74	391	<0.05	28.5	45
EADL116S		0.02	0.72	239	<0.05	28.0	30
EADL121S		0.02	0.49	314	<0.05	10.10	44
EADL129S		0.02	0.62	206	0.09	17.20	85
EADL145S		0.07	0.64	136	0.08	21.0	18
EADL166S		0.02	0.71	303	<0.05	17.75	36
EADL180S		0.03	0.55	175	0.10	12.80	131



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CERTIFICATE COMMENTS

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
AuME-TL43

Applies to Method:

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