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To: EARTH AI OPERATIONS AUSTRALIA PTY LTD

UNIT 8

7-29 BRIDGE RD

STANMORE NSW 2048

Page: 1

Total # Pages: 3 (A - E)

Plus Appendix Pages

Finalized Date: 6-MAY-2025

Account: EARTOP

## CERTIFICATE AD25105073

Project: ESA03D

This report is for 44 samples of Drill Core submitted to our lab in Adelaide, SA, Australia on 14-APR-2025.

The following have access to data associated with this certificate:

EARTH AI OPERATIONS

ROMAN TESLYUK

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL-QC	Pulverizing QC Test
PUL-22	Pulverizing 3kg sample in LM5
HOM-01	Homogenize by light pulverizing
WEI-21	Received Sample Weight
BLKINS-01	Insertion of blank material
STDINS-01	Standard Insertion Charge
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-21	Crush entire sample

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS61r	4A multi-element ICP-MS + REE	

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 AD25105073

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61r Ag ppm 0.01	ME-MS61r Al % 0.01	ME-MS61r As ppm 0.2	ME-MS61r Ba ppm 10	ME-MS61r Be ppm 0.05	ME-MS61r Bi ppm 0.01	ME-MS61r Ca % 0.01	ME-MS61r Cd ppm 0.02	ME-MS61r Ce ppm 0.01	ME-MS61r Co ppm 0.1
ESA03D_007		2.52	93.0	<0.001	<0.005	0.001	0.02	2.81	0.6	420	0.16	0.03	0.01	<0.02	8.92	0.3
ESA03D_008		<0.02					65.8	4.06	545	550	1.41	4.05	1.35	20.1	43.9	704
ESA03D_009		<0.02		0.692	0.013	0.223										
ESA03D_203.0-208.0		5.82	90.0	<0.001	<0.005	0.001	0.02	6.99	<0.2	110	2.74	0.36	0.53	<0.02	74.5	1.2
ESA03D_208.0-213.0		5.70	94.0	0.001	<0.005	0.001	<0.01	6.84	<0.2	120	2.55	0.34	0.41	<0.02	95.3	1.0
ESA03D_213.0-218.0		5.51		<0.001	<0.005	<0.001	<0.01	7.20	<0.2	190	2.68	0.63	0.50	<0.02	93.5	1.3
ESA03D_218.0-223.0		5.41		<0.001	<0.005	<0.001	0.01	6.56	<0.2	180	2.79	0.65	0.55	<0.02	73.6	1.8
ESA03D_223.0-228.0		5.94		<0.001	<0.005	0.001	0.02	7.03	<0.2	200	2.63	3.11	0.61	0.02	49.9	2.0
ESA03D_228.0-233.0		5.80		0.001	<0.005	<0.001	0.01	7.04	<0.2	120	2.50	1.66	0.54	0.03	57.3	2.0
ESA03D_233.0-238.0		5.59		0.001	<0.005	<0.001	0.01	7.83	<0.2	40	3.41	0.16	0.46	<0.02	105.5	1.0
ESA03D_238.0-243.0		5.52		0.001	<0.005	0.001	<0.01	7.57	<0.2	30	2.84	0.09	0.36	<0.02	69.0	0.5
ESA03D_243.0-248.0		5.63		<0.001	<0.005	<0.001	<0.01	7.39	<0.2	20	2.66	0.08	0.41	<0.02	90.5	0.5
ESA03D_248.0-253.0		5.64		<0.001	<0.005	<0.001	<0.01	8.29	<0.2	20	3.79	0.07	0.47	<0.02	58.0	2.8
ESA03D_253.0-255.0		2.21		<0.001	<0.005	0.002	<0.01	10.70	<0.2	20	3.64	0.04	0.65	<0.02	62.9	0.8
ESA03D_255.0-256.0		1.20		<0.001	<0.005	0.002	<0.01	8.80	<0.2	20	3.43	0.06	0.50	<0.02	75.5	0.9
ESA03D_256.0-257.0		1.13		<0.001	<0.005	<0.001	<0.01	8.67	<0.2	10	2.97	0.02	0.43	<0.02	79.4	0.4
ESA03D_257.0-258.0		0.97		0.001	<0.005	<0.001	<0.01	7.61	<0.2	10	2.82	0.02	0.33	<0.02	96.7	0.3
ESA03D_258.0-259.0		1.16		<0.001	<0.005	<0.001	0.05	8.18	<0.2	10	3.01	0.02	0.39	<0.02	320	0.5
ESA03D_259.0-260.0		1.03		<0.001	<0.005	0.002	0.04	8.64	<0.2	10	3.07	0.04	0.35	<0.02	107.5	0.3
ESA03D_260.0-265.0		3.93		<0.001	<0.005	<0.001	0.03	8.59	<0.2	20	3.50	0.03	0.37	<0.02	162.5	0.7
ESA03D_265.0-270.0		5.29		<0.001	<0.005	<0.001	<0.01	9.04	<0.2	20	3.64	0.05	0.42	<0.02	201	0.8
ESA03D_270.0-272.0		2.33		<0.001	<0.005	<0.001	<0.01	8.37	<0.2	10	3.13	0.02	0.34	<0.02	155.5	0.4
ESA03D_272.0-274.0		2.01		<0.001	<0.005	<0.001	<0.01	8.58	<0.2	20	4.07	0.02	0.37	<0.02	164.0	0.4
ESA03D_274.0-276.0		2.39		<0.001	<0.005	<0.001	0.01	9.64	<0.2	20	3.93	0.08	0.46	<0.02	88.6	0.7
ESA03D_276.0-278.0		2.32		<0.001	<0.005	0.002	<0.01	10.85	<0.2	20	3.44	0.03	0.52	<0.02	195.5	0.7
ESA03D_278.0-280.0		1.88		<0.001	<0.005	0.001	<0.01	9.01	<0.2	10	3.39	0.02	0.43	<0.02	230	0.7
ESA03D_280.0-282.0		2.27		<0.001	<0.005	<0.001	<0.01	8.12	<0.2	20	2.85	0.04	0.48	<0.02	93.8	0.9
ESA03D_282.0-284.0		2.12		<0.001	<0.005	<0.001	<0.01	9.40	<0.2	20	3.01	0.05	0.44	<0.02	96.2	0.7
ESA03D_284.0-285.0		1.08		<0.001	<0.005	0.001	0.01	6.32	<0.2	20	2.51	0.01	0.33	<0.02	43.2	0.5
ESA03D_285.0-286.0		1.34		<0.001	<0.005	<0.001	<0.01	4.11	<0.2	10	1.70	0.02	0.25	<0.02	42.2	0.6
ESA03D_286.0-287.0		1.12		<0.001	<0.005	<0.001	0.01	1.54	<0.2	10	0.67	0.07	0.10	<0.02	32.9	0.8
ESA03D_287.0-288.0		1.24		<0.001	<0.005	<0.001	0.01	2.90	0.3	10	1.12	0.02	0.15	<0.02	18.90	0.7
ESA03D_288.0-289.0		1.24		<0.001	<0.005	<0.001	0.01	4.13	0.2	10	1.57	0.02	0.24	<0.02	40.8	0.5
ESA03D_289.0-290.0		1.14		<0.001	<0.005	<0.001	0.01	3.44	0.2	10	1.18	0.01	0.20	<0.02	18.95	0.4
ESA03D_290.0-291.0		1.56		<0.001	<0.005	<0.001	<0.01	2.56	<0.2	10	1.07	0.02	0.14	<0.02	13.10	0.6
ESA03D_291.0-292.0		1.17		<0.001	<0.005	0.001	0.02	1.90	<0.2	<10	0.80	0.02	0.10	<0.02	8.28	0.4
ESA03D_292.0-293.0		1.15		<0.001	<0.005	<0.001	0.01	1.90	<0.2	10	0.80	0.04	0.11	<0.02	15.15	0.4
ESA03D_293.0-294.0		1.12		<0.001	<0.005	0.001	0.05	3.94	<0.2	10	1.87	0.03	0.33	<0.02	16.35	0.5
ESA03D_294.0-295.0		1.08		<0.001	<0.005	<0.001	0.02	2.45	<0.2	10	1.00	0.02	0.15	<0.02	22.2	0.4
ESA03D_295.0-296.0		1.09		<0.001	<0.005	0.001	0.01	2.13	<0.2	<10	0.85	0.02	0.10	<0.02	3.47	0.5



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## CERTIFICATE OF ANALYSIS AD25105073

Sample Description	Method Analyte Units LOD	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01
ESA03D_007		3	0.77	2.1	0.36	4.67	0.06	1.8	0.017	3.23	5.0	2.3	0.03	31	0.24	0.07
ESA03D_008		40	6.44	7610	4.75	10.70	0.22	1.3	0.603	1.44	22.2	32.7	0.58	899	922	0.99
ESA03D_009																
ESA03D_203.0-208.0		3	1.45	2.7	0.88	16.90	0.10	3.9	0.026	2.12	34.2	3.8	0.37	88	0.44	3.55
ESA03D_208.0-213.0		2	1.83	0.9	0.84	17.00	0.12	4.1	0.023	2.31	46.0	4.1	0.40	88	0.20	3.27
ESA03D_213.0-218.0		3	1.98	0.6	0.99	18.95	0.11	4.0	0.030	3.53	44.3	3.5	0.30	98	0.27	2.76
ESA03D_218.0-223.0		5	1.43	0.8	1.10	15.45	0.11	3.1	0.025	2.78	33.7	4.3	0.39	118	0.30	2.74
ESA03D_223.0-228.0		5	1.88	1.0	1.33	16.55	0.10	2.7	0.034	3.40	23.2	5.4	0.41	139	0.42	2.56
ESA03D_228.0-233.0		5	1.73	1.5	1.24	18.55	0.08	2.9	0.031	1.97	26.3	4.9	0.45	116	0.80	3.43
ESA03D_233.0-238.0		6	1.45	0.7	0.93	17.70	0.12	3.6	0.017	0.76	49.7	4.8	0.66	76	0.24	4.69
ESA03D_238.0-243.0		7	1.20	0.7	0.58	16.20	0.08	2.9	0.012	0.56	33.5	1.9	0.29	54	0.18	5.28
ESA03D_243.0-248.0		4	0.80	0.7	0.53	16.10	0.09	3.3	0.007	0.36	42.4	1.6	0.26	55	0.19	5.73
ESA03D_248.0-253.0		27	0.79	0.2	1.67	24.1	0.09	2.4	0.009	0.30	26.3	14.0	2.46	126	0.13	5.12
ESA03D_253.0-255.0		7	0.89	0.6	0.68	16.90	0.08	3.5	0.008	0.40	30.4	3.5	0.61	58	0.11	7.32
ESA03D_255.0-256.0		5	2.04	0.6	0.62	16.75	0.10	3.8	<0.005	0.57	35.0	3.0	0.45	63	0.19	6.74
ESA03D_256.0-257.0		5	0.79	0.8	0.45	15.20	0.08	3.6	0.008	0.17	35.6	1.2	0.21	47	0.16	7.21
ESA03D_257.0-258.0		4	0.89	0.8	0.37	13.35	0.09	2.2	<0.005	0.18	47.2	1.2	0.14	45	0.15	6.36
ESA03D_258.0-259.0		5	0.35	1.2	0.71	14.60	0.26	2.6	0.008	0.15	151.5	0.8	0.18	73	0.25	6.82
ESA03D_259.0-260.0		2	0.33	0.7	0.30	15.25	0.11	4.0	0.005	0.13	48.2	0.9	0.20	34	0.11	7.39
ESA03D_260.0-265.0		5	0.60	1.1	0.50	17.05	0.14	6.1	<0.005	0.20	74.4	2.7	0.48	52	0.10	7.10
ESA03D_265.0-270.0		3	0.61	0.8	0.56	16.30	0.19	5.7	0.007	0.18	96.1	2.8	0.54	56	0.13	7.29
ESA03D_270.0-272.0		4	0.36	0.6	0.34	14.00	0.15	3.6	<0.005	0.10	74.0	1.5	0.30	44	0.18	7.51
ESA03D_272.0-274.0		6	0.74	0.6	0.33	15.70	0.15	3.5	<0.005	0.16	75.7	1.4	0.25	42	0.13	7.58
ESA03D_274.0-276.0		7	1.08	0.6	0.45	15.60	0.10	2.5	0.005	0.31	42.3	2.7	0.40	59	0.16	7.58
ESA03D_276.0-278.0		8	0.54	0.5	0.47	17.00	0.19	4.2	<0.005	0.18	90.8	2.4	0.41	61	0.22	7.71
ESA03D_278.0-280.0		8	0.49	0.6	0.54	15.40	0.21	3.5	<0.005	0.11	107.0	3.4	0.42	64	0.26	7.14
ESA03D_280.0-282.0		10	0.52	0.5	0.65	16.30	0.10	2.9	<0.005	0.13	43.9	5.7	0.70	64	0.12	6.51
ESA03D_282.0-284.0		9	0.61	0.6	0.48	15.20	0.09	2.7	<0.005	0.15	45.3	3.0	0.28	91	0.32	6.81
ESA03D_284.0-285.0		9	0.63	0.8	0.56	12.50	0.06	1.9	<0.005	0.10	20.4	4.6	0.26	61	0.21	4.93
ESA03D_285.0-286.0		7	0.60	1.1	0.72	8.99	0.06	1.7	<0.005	0.07	19.7	2.7	0.33	81	0.22	3.07
ESA03D_286.0-287.0		7	0.70	1.2	0.84	4.66	0.05	0.9	<0.005	0.09	15.8	6.6	0.39	116	0.34	0.85
ESA03D_287.0-288.0		9	0.58	1.3	0.76	6.48	<0.05	0.7	<0.005	0.07	9.5	2.9	0.24	247	0.54	2.10
ESA03D_288.0-289.0		7	0.40	0.9	0.53	7.25	0.07	2.4	<0.005	0.06	20.2	1.8	0.16	63	0.19	3.23
ESA03D_289.0-290.0		4	0.36	1.2	0.46	6.61	0.05	1.1	<0.005	0.05	9.8	1.1	0.04	58	0.21	2.75
ESA03D_290.0-291.0		6	0.37	1.1	0.52	5.31	<0.05	0.5	<0.005	0.05	6.7	1.4	0.09	60	0.25	1.96
ESA03D_291.0-292.0		6	0.30	1.3	0.52	3.67	<0.05	0.3	<0.005	0.04	3.9	1.7	0.03	89	0.25	1.45
ESA03D_292.0-293.0		7	0.31	1.2	0.52	3.67	<0.05	0.4	<0.005	0.04	6.8	2.4	0.03	79	0.30	1.46
ESA03D_293.0-294.0		6	0.77	1.1	0.56	8.37	<0.05	0.8	<0.005	0.13	7.1	1.3	0.11	89	0.32	3.00
ESA03D_294.0-295.0		4	0.37	1.2	0.47	4.83	<0.05	0.5	<0.005	0.06	10.3	0.8	0.04	68	0.23	1.92
ESA03D_295.0-296.0		4	0.42	1.2	0.55	4.36	<0.05	0.4	<0.005	0.05	1.6	2.2	0.06	65	0.24	1.61



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		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
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
ESA03D_007		0.8	1.4	30	9.0	124.0	<0.002	<0.01	0.19	0.5	<1	0.3	16.2	0.08	<0.05
ESA03D_008		6.9	6970	630	7980	89.8	0.506	3.17	710	5.1	3	2.5	96.3	0.62	0.24
ESA03D_009															
ESA03D_203.0-208.0		9.4	3.4	720	20.0	135.5	<0.002	0.02	0.30	3.3	<1	5.6	64.3	1.08	<0.05
ESA03D_208.0-213.0		9.1	2.3	680	15.9	157.5	<0.002	0.01	0.10	3.5	<1	5.8	54.4	1.02	<0.05
ESA03D_213.0-218.0		10.2	1.8	730	26.3	221	<0.002	0.01	<0.05	3.9	<1	6.3	61.5	1.34	<0.05
ESA03D_218.0-223.0		11.6	2.7	740	17.6	155.5	<0.002	0.01	0.07	4.2	<1	4.8	58.3	1.36	<0.05
ESA03D_223.0-228.0		12.8	2.6	820	28.5	186.0	<0.002	0.03	0.06	4.7	<1	4.6	61.8	1.61	<0.05
ESA03D_228.0-233.0		14.2	3.6	880	17.8	137.5	<0.002	0.04	0.08	5.4	<1	5.8	56.1	1.58	<0.05
ESA03D_233.0-238.0		13.4	5.0	860	8.1	84.2	<0.002	0.02	0.05	4.8	<1	5.9	66.8	1.48	<0.05
ESA03D_238.0-243.0		8.8	2.1	800	6.8	62.3	<0.002	0.01	<0.05	3.2	<1	4.4	59.3	1.06	<0.05
ESA03D_243.0-248.0		9.2	1.7	1040	7.7	42.2	<0.002	0.01	<0.05	2.8	<1	4.4	55.0	1.20	<0.05
ESA03D_248.0-253.0		12.9	23.0	1070	4.4	27.2	<0.002	0.02	<0.05	7.8	<1	10.1	70.0	1.22	<0.05
ESA03D_253.0-255.0		13.2	3.0	1550	6.2	48.0	<0.002	0.02	<0.05	4.7	<1	6.8	67.7	1.78	<0.05
ESA03D_255.0-256.0		11.4	2.5	1290	7.4	84.1	0.004	0.04	<0.05	4.0	<1	6.3	60.2	1.59	<0.05
ESA03D_256.0-257.0		9.3	1.4	900	6.0	20.6	<0.002	0.01	<0.05	2.5	<1	4.0	60.2	2.32	<0.05
ESA03D_257.0-258.0		5.4	0.9	690	4.2	26.0	<0.002	0.01	<0.05	1.7	<1	2.3	44.6	1.55	<0.05
ESA03D_258.0-259.0		6.4	1.7	690	5.9	15.7	<0.002	0.01	0.06	7.4	<1	3.3	58.2	1.72	<0.05
ESA03D_259.0-260.0		8.3	1.2	620	5.2	13.0	<0.002	<0.01	<0.05	3.0	<1	4.5	53.5	1.62	<0.05
ESA03D_260.0-265.0		13.1	2.8	590	7.3	24.9	<0.002	0.01	<0.05	4.4	<1	6.4	62.0	1.72	<0.05
ESA03D_265.0-270.0		13.5	3.4	720	7.1	21.9	<0.002	0.02	<0.05	4.7	<1	6.2	64.3	1.82	<0.05
ESA03D_270.0-272.0		9.0	2.6	730	6.1	9.1	<0.002	0.01	<0.05	3.1	<1	5.0	56.2	1.38	<0.05
ESA03D_272.0-274.0		11.1	2.2	780	5.6	21.2	<0.002	0.02	<0.05	5.1	<1	7.1	62.8	1.25	<0.05
ESA03D_274.0-276.0		12.2	3.2	1170	4.9	39.0	<0.002	0.03	<0.05	4.0	<1	7.1	63.1	1.76	<0.05
ESA03D_276.0-278.0		12.8	3.4	1000	6.3	18.3	<0.002	0.02	<0.05	3.5	<1	6.5	70.1	1.59	<0.05
ESA03D_278.0-280.0		12.1	3.5	840	5.1	10.5	<0.002	0.02	<0.05	5.6	<1	6.3	64.0	1.59	<0.05
ESA03D_280.0-282.0		14.4	5.8	1240	3.9	14.9	<0.002	0.03	<0.05	5.4	<1	6.6	60.7	2.40	<0.05
ESA03D_282.0-284.0		7.2	2.6	810	4.9	18.4	<0.002	0.04	<0.05	2.6	<1	3.7	66.8	2.21	<0.05
ESA03D_284.0-285.0		9.6	2.7	630	2.9	12.2	<0.002	0.02	0.06	2.7	<1	4.5	58.2	1.05	<0.05
ESA03D_285.0-286.0		9.2	3.5	490	2.6	8.9	<0.002	0.02	0.06	2.8	<1	4.1	39.6	0.82	<0.05
ESA03D_286.0-287.0		3.9	4.1	230	1.8	15.8	<0.002	0.02	0.07	2.0	<1	2.0	12.9	0.47	<0.05
ESA03D_287.0-288.0		3.6	3.1	260	1.6	10.2	<0.002	0.03	0.08	1.7	<1	2.0	25.9	0.43	<0.05
ESA03D_288.0-289.0		7.5	1.9	460	3.1	7.1	<0.002	0.02	0.06	1.8	<1	4.4	33.0	1.05	<0.05
ESA03D_289.0-290.0		3.9	1.0	480	2.3	5.6	<0.002	0.02	0.05	0.8	<1	2.5	25.8	0.52	<0.05
ESA03D_290.0-291.0		2.6	1.4	260	1.5	6.4	<0.002	0.02	0.05	0.9	<1	1.7	25.6	0.32	<0.05
ESA03D_291.0-292.0		1.6	1.0	190	1.3	4.7	<0.002	0.01	0.06	0.4	<1	0.9	19.1	0.21	<0.05
ESA03D_292.0-293.0		1.8	1.0	210	2.1	5.2	<0.002	0.01	0.06	0.5	<1	1.2	17.8	0.23	<0.05
ESA03D_293.0-294.0		4.2	1.5	970	2.5	22.2	<0.002	0.02	0.06	1.1	<1	2.4	37.4	0.49	<0.05
ESA03D_294.0-295.0		2.7	0.9	360	1.6	7.6	<0.002	0.01	0.05	0.7	<1	1.6	22.1	0.31	<0.05
ESA03D_295.0-296.0		1.7	1.1	150	1.2	7.5	<0.002	0.02	0.05	0.4	<1	1.2	19.5	0.23	<0.05



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## CERTIFICATE OF ANALYSIS AD25105073

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ti	Ti	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1
ESA03D_007		0.019	0.52	0.4	3	0.1	2.2	2	55.5	0.39	0.24	0.22	0.42	0.08	0.05	3.8
ESA03D_008		0.205	1.47	2.2	42	5.7	10.8	8030	46.1	2.28	0.99	0.79	3.11	0.41	0.13	19.5
ESA03D_009																
ESA03D_203.0-208.0		0.104	0.55	34.1	7	0.7	10.0	22	119.0	2.51	0.78	0.59	4.10	0.36	0.09	26.8
ESA03D_208.0-213.0		0.095	0.67	30.8	9	0.7	10.4	9	122.0	2.49	0.78	0.64	4.24	0.36	0.08	33.9
ESA03D_213.0-218.0		0.095	0.85	24.4	7	1.1	11.8	8	120.0	2.59	0.87	0.63	4.06	0.39	0.10	32.9
ESA03D_218.0-223.0		0.115	0.55	24.9	10	0.7	11.9	7	96.9	2.60	1.03	0.58	3.70	0.41	0.13	26.9
ESA03D_223.0-228.0		0.128	0.74	27.4	10	0.8	11.8	16	90.7	2.46	1.13	0.49	2.94	0.43	0.16	20.1
ESA03D_228.0-233.0		0.135	0.59	28.6	12	0.9	14.2	13	88.1	2.84	1.24	0.55	3.46	0.47	0.16	22.7
ESA03D_233.0-238.0		0.133	0.35	37.6	18	0.6	17.6	6	112.0	3.55	1.56	0.72	4.63	0.62	0.21	39.9
ESA03D_238.0-243.0		0.075	0.26	25.5	8	0.5	11.6	2	88.5	2.44	0.94	0.59	3.58	0.38	0.11	24.4
ESA03D_243.0-248.0		0.072	0.21	33.4	7	0.5	11.1	3	100.5	2.51	0.88	0.61	3.98	0.38	0.10	31.0
ESA03D_248.0-253.0		0.428	0.19	31.4	40	1.6	21.2	13	76.3	4.26	1.86	0.55	4.24	0.74	0.22	21.7
ESA03D_253.0-255.0		0.126	0.26	43.3	11	0.8	17.8	4	108.5	3.67	1.46	0.49	4.17	0.61	0.17	24.1
ESA03D_255.0-256.0		0.099	0.46	38.3	10	0.8	15.1	2	117.0	3.33	1.24	0.49	3.86	0.54	0.16	26.6
ESA03D_256.0-257.0		0.061	0.11	34.8	5	0.6	11.8	<2	116.5	2.39	0.90	0.45	3.44	0.38	0.11	27.1
ESA03D_257.0-258.0		0.039	0.16	18.9	3	0.4	14.1	<2	67.3	3.21	1.15	0.57	4.26	0.51	0.12	33.2
ESA03D_258.0-259.0		0.048	0.09	32.9	6	0.5	12.0	<2	78.3	3.25	0.84	1.35	8.71	0.41	0.10	114.5
ESA03D_259.0-260.0		0.071	0.09	15.7	5	0.9	9.9	<2	125.0	2.26	0.74	0.56	4.14	0.34	0.09	39.2
ESA03D_260.0-265.0		0.112	0.15	27.5	8	0.8	15.9	2	197.5	3.75	1.19	0.84	6.18	0.55	0.14	54.7
ESA03D_265.0-270.0		0.109	0.12	36.1	9	1.0	17.5	2	185.5	4.04	1.38	0.94	6.54	0.62	0.16	69.6
ESA03D_270.0-272.0		0.074	0.08	47.2	5	1.0	14.1	<2	114.0	3.14	1.04	0.79	5.33	0.47	0.12	56.3
ESA03D_272.0-274.0		0.102	0.15	80.2	5	1.6	25.7	<2	109.0	5.23	2.04	0.90	6.95	0.88	0.23	61.9
ESA03D_274.0-276.0		0.104	0.23	38.3	7	1.5	15.2	<2	77.1	3.18	1.27	0.50	4.03	0.52	0.17	31.5
ESA03D_276.0-278.0		0.131	0.12	45.3	7	1.3	22.9	<2	132.0	4.78	1.81	0.88	7.19	0.76	0.21	72.7
ESA03D_278.0-280.0		0.096	0.08	35.1	8	1.3	24.2	<2	110.5	5.24	1.95	1.01	8.19	0.84	0.23	84.5
ESA03D_280.0-282.0		0.119	0.10	24.9	12	1.2	19.5	3	92.2	3.50	1.55	0.48	4.23	0.62	0.19	33.4
ESA03D_282.0-284.0		0.060	0.14	33.9	6	0.7	13.1	<2	80.8	2.58	1.00	0.49	3.92	0.42	0.12	36.2
ESA03D_284.0-285.0		0.082	0.11	19.3	7	1.1	13.2	<2	62.1	2.31	1.10	0.27	2.29	0.43	0.14	15.1
ESA03D_285.0-286.0		0.074	0.09	19.2	10	0.9	10.7	2	59.2	1.99	0.89	0.26	2.11	0.36	0.13	14.5
ESA03D_286.0-287.0		0.036	0.12	16.6	10	0.3	4.2	4	29.8	0.93	0.39	0.18	1.32	0.15	0.06	11.7
ESA03D_287.0-288.0		0.032	0.09	21.7	6	0.4	4.2	2	26.4	0.89	0.40	0.11	1.01	0.15	0.05	6.8
ESA03D_288.0-289.0		0.077	0.07	26.3	5	1.0	12.0	<2	82.1	2.27	1.00	0.27	2.41	0.41	0.13	15.3
ESA03D_289.0-290.0		0.039	0.05	21.9	2	0.6	5.9	<2	34.9	1.20	0.52	0.13	1.24	0.21	0.06	7.6
ESA03D_290.0-291.0		0.028	0.06	9.5	2	0.3	2.5	<2	18.0	0.53	0.23	0.07	0.63	0.09	0.03	5.0
ESA03D_291.0-292.0		0.015	0.05	3.6	1	0.2	1.5	<2	7.6	0.31	0.14	0.04	0.38	0.06	0.02	2.9
ESA03D_292.0-293.0		0.018	0.06	4.9	1	0.2	2.8	<2	11.3	0.62	0.27	0.07	0.63	0.11	0.03	5.2
ESA03D_293.0-294.0		0.040	0.16	12.9	3	0.5	10.8	2	28.2	2.11	1.04	0.15	1.62	0.40	0.13	6.3
ESA03D_294.0-295.0		0.025	0.08	6.6	2	0.4	4.1	<2	17.2	0.87	0.41	0.11	1.03	0.15	0.05	7.7
ESA03D_295.0-296.0		0.018	0.07	4.9	2	0.2	1.7	<2	12.0	0.34	0.17	0.03	0.33	0.06	0.02	1.4



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CERTIFICATE OF ANALYSIS AD25105073

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Pr	Sm	Tb	Tm	Yb
		ppm	ppm	ppm	ppm	ppm
		0.03	0.03	0.01	0.01	0.03
ESA03D_007		1.08	0.63	0.06	0.04	0.29
ESA03D_008		5.14	3.84	0.44	0.14	0.84
ESA03D_009						
ESA03D_203.0-208.0		8.36	5.96	0.60	0.10	0.55
ESA03D_208.0-213.0		10.65	6.69	0.58	0.11	0.61
ESA03D_213.0-218.0		10.35	6.61	0.58	0.11	0.67
ESA03D_218.0-223.0		8.36	5.47	0.56	0.14	0.88
ESA03D_223.0-228.0		5.61	4.12	0.48	0.17	1.06
ESA03D_228.0-233.0		6.36	4.76	0.55	0.18	1.10
ESA03D_233.0-238.0		11.80	6.74	0.73	0.22	1.38
ESA03D_238.0-243.0		7.83	5.00	0.52	0.13	0.74
ESA03D_243.0-248.0		10.35	6.04	0.56	0.12	0.69
ESA03D_248.0-253.0		6.74	4.81	0.73	0.26	1.57
ESA03D_253.0-255.0		7.63	5.12	0.69	0.21	1.23
ESA03D_255.0-256.0		8.65	5.33	0.65	0.17	1.04
ESA03D_256.0-257.0		8.86	5.17	0.49	0.12	0.75
ESA03D_257.0-258.0		10.60	6.05	0.64	0.16	0.88
ESA03D_258.0-259.0		35.2	18.20	0.96	0.11	0.63
ESA03D_259.0-260.0		11.70	6.70	0.54	0.10	0.59
ESA03D_260.0-265.0		17.25	9.74	0.83	0.16	0.90
ESA03D_265.0-270.0		21.4	11.15	0.88	0.18	1.00
ESA03D_270.0-272.0		17.65	9.04	0.72	0.15	0.86
ESA03D_272.0-274.0		18.25	10.75	1.05	0.28	1.73
ESA03D_274.0-276.0		10.35	5.83	0.61	0.18	1.07
ESA03D_276.0-278.0		21.6	12.00	0.99	0.24	1.39
ESA03D_278.0-280.0		25.8	14.05	1.10	0.26	1.51
ESA03D_280.0-282.0		10.55	6.15	0.65	0.22	1.26
ESA03D_282.0-284.0		10.80	6.18	0.54	0.14	0.81
ESA03D_284.0-285.0		4.60	2.89	0.40	0.15	0.94
ESA03D_285.0-286.0		4.43	2.80	0.35	0.13	0.81
ESA03D_286.0-287.0		3.54	2.12	0.20	0.06	0.36
ESA03D_287.0-288.0		2.03	1.30	0.17	0.05	0.32
ESA03D_288.0-289.0		4.69	3.07	0.40	0.15	0.89
ESA03D_289.0-290.0		2.28	1.46	0.21	0.07	0.43
ESA03D_290.0-291.0		1.55	0.93	0.10	0.03	0.22
ESA03D_291.0-292.0		0.87	0.50	0.06	0.02	0.13
ESA03D_292.0-293.0		1.58	0.88	0.11	0.04	0.24
ESA03D_293.0-294.0		1.83	1.48	0.33	0.15	0.95
ESA03D_294.0-295.0		2.41	1.45	0.16	0.06	0.35
ESA03D_295.0-296.0		0.41	0.33	0.06	0.02	0.16



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**CERTIFICATE OF ANALYSIS AD25105073**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt.	Pass7Sum	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
		kg	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.02	0.01	0.001	0.005	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
ESA03D_296.0-297.0		1.24		<0.001	<0.005	<0.001	0.01	2.40	0.5	10	0.95	0.02	0.10	<0.02	2.98	0.5
ESA03D_297.0-298.0		1.37		<0.001	<0.005	0.001	0.01	1.64	0.2	<10	0.65	0.02	0.08	<0.02	3.86	0.4
ESA03D_298.0-299.0		1.24		<0.001	<0.005	0.001	0.01	1.45	0.3	10	0.57	0.02	0.14	<0.02	3.89	0.9
ESA03D_299.0-300.0		1.14		0.001	<0.005	0.001	0.01	1.21	<0.2	<10	0.48	0.01	0.07	<0.02	4.35	0.5



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CERTIFICATE OF ANALYSIS AD25105073

Sample Description	Method Analyte Units LOD	ME-MS61r Cr ppm 1	ME-MS61r Cs ppm 0.05	ME-MS61r Cu ppm 0.2	ME-MS61r Fe % 0.01	ME-MS61r Ga ppm 0.05	ME-MS61r Ge ppm 0.05	ME-MS61r Hf ppm 0.1	ME-MS61r In ppm 0.005	ME-MS61r K % 0.01	ME-MS61r La ppm 0.5	ME-MS61r Li ppm 0.2	ME-MS61r Mg % 0.01	ME-MS61r Mn ppm 5	ME-MS61r Mo ppm 0.05	ME-MS61r Na % 0.01
ESA03D_296.0-297.0		5	0.53	1.2	0.58	4.92	<0.05	0.4	<0.005	0.08	1.3	1.6	0.06	69	0.25	1.82
ESA03D_297.0-298.0		4	0.56	1.2	0.54	3.50	<0.05	0.5	<0.005	0.06	1.4	3.5	0.08	62	0.22	1.18
ESA03D_298.0-299.0		22	0.74	2.0	0.84	3.33	<0.05	0.8	<0.005	0.07	1.8	3.3	0.19	643	1.06	0.93
ESA03D_299.0-300.0		5	0.50	1.3	0.58	2.46	<0.05	0.4	<0.005	0.05	2.2	2.2	0.08	66	0.26	0.85





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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Nb	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	ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
ESA03D_296.0–297.0		1.9	1.1	130	1.3	11.8	<0.002	0.01	0.06	0.4	<1	1.4	21.2	0.27	<0.05	2.95
ESA03D_297.0–298.0		2.0	1.1	150	1.3	9.8	<0.002	0.01	0.06	0.4	<1	1.2	15.0	0.29	<0.05	1.98
ESA03D_298.0–299.0		4.1	3.0	440	1.6	11.9	<0.002	0.03	0.09	0.7	<1	1.6	12.8	0.58	<0.05	3.92
ESA03D_299.0–300.0		2.1	1.1	160	1.1	7.7	<0.002	0.01	0.06	0.4	<1	1.0	11.4	0.29	<0.05	1.78



**To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
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Account: EARTOP

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Ti	Tl	U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1
ESA03D_296.0–297.0		0.019	0.09	3.5	2	0.3	1.6	<2	13.1	0.33	0.16	0.03	0.28	0.06	0.02	1.1
ESA03D_297.0–298.0		0.018	0.08	3.8	2	0.2	1.6	<2	11.9	0.32	0.15	0.03	0.29	0.06	0.02	1.2
ESA03D_298.0–299.0		0.029	0.10	5.8	3	0.3	2.8	3	25.1	0.56	0.26	0.03	0.46	0.11	0.04	1.6
ESA03D_299.0–300.0		0.016	0.07	4.5	2	0.2	1.8	2	11.3	0.34	0.16	0.03	0.30	0.06	0.02	1.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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**CERTIFICATE OF ANALYSIS    AD25105073**

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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To: EARTH AI OPERATIONS AUSTRALIA PTY LTD  
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**CERTIFICATE OF ANALYSIS AD25105073**

	CERTIFICATE COMMENTS
	<p><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: REEs may not be totally soluble in this method. ME-MS61r</p> <p><b>LABORATORY ADDRESSES</b></p> <p>Applies to Method: Processed at ALS Perth located at 29 &amp; 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 19 Integrity Way, Wangara, WA, Australia ME-MS61r PGM-ICP23 STDINS-01</p> <p>Applies to Method: Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. BLKINS-01 CRU-21 HOM-01 LEV-01 LOG-22 LOG-24 PUL-22 PUL-QC WEI-21</p>