



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

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: 4-JUN-2025

Account: EARTOP

CERTIFICATE AD25136414

Project: ESA12D

This report is for 43 samples of Drill Core submitted to our lab in Adelaide, SA, Australia on 13-MAY-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
STDINS-01	Standard Insertion Charge
BLKINS-01	Insertion of blank material
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



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
 UNIT 8
 7-29 BRIDGE RD
 STANMORE NSW 2048

Page: 2 - A
 Total # Pages: 3 (A - E)
 Plus Appendix Pages
 Finalized Date: 4-JUN-2025
 Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

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
ESA12D_013		1.48	98.0	0.001	<0.005	<0.001	<0.01	2.76	<0.2	450	0.11	0.03	0.01	<0.02	6.82	0.2
ESA12D_014		<0.02					67.7	4.14	560	420	1.32	3.71	1.32	19.35	41.1	716
ESA12D_015		<0.02		0.704	0.015	0.227										
ESA012D_400.0-405.0		5.23	94.0	<0.001	<0.005	<0.001	0.03	8.66	<0.2	30	3.62	0.08	0.48	<0.02	44.6	1.0
ESA012D_405.0-410.0		5.53	97.0	0.002	<0.005	<0.001	0.03	8.11	<0.2	30	3.40	0.59	0.44	<0.02	40.6	0.6
ESA012D_410.0-415.0		6.89		0.002	<0.005	<0.001	0.07	8.38	<0.2	30	3.56	0.08	0.58	<0.02	36.9	0.8
ESA012D_415.0-420.0		5.73		0.002	<0.005	<0.001	<0.01	7.21	<0.2	50	3.34	0.12	0.50	<0.02	47.9	0.8
ESA012D_420.0-422.0		2.88		0.001	<0.005	<0.001	0.08	7.90	<0.2	30	3.78	0.09	0.48	<0.02	45.5	0.8
ESA012D_422.0-424.0		2.74		0.001	<0.005	<0.001	0.02	6.07	<0.2	30	2.91	0.10	0.36	0.03	35.5	0.8
ESA012D_424.0-426.0		2.20		0.001	<0.005	<0.001	0.12	6.64	<0.2	30	2.90	0.06	0.40	<0.02	40.2	0.7
ESA012D_426.0-428.0		2.27		<0.001	<0.005	<0.001	<0.01	8.36	<0.2	40	3.51	0.05	0.40	<0.02	71.0	0.7
ESA012D_428.0-430.0		2.31		0.002	<0.005	<0.001	0.01	7.41	<0.2	30	3.56	0.14	0.41	<0.02	34.5	1.7
ESA012D_430.0-435.0		5.45		0.002	<0.005	<0.001	<0.01	7.70	<0.2	30	3.47	0.13	0.44	<0.02	28.5	1.7
ESA012D_435.0-440.0		5.31		0.001	<0.005	<0.001	0.02	7.49	<0.2	70	2.41	0.34	0.35	<0.02	36.6	1.4
ESA012D_440.0-445.0		5.54		0.001	<0.005	<0.001	<0.01	6.34	<0.2	30	2.22	0.09	0.32	<0.02	57.2	0.8
ESA012D_445.0-450.0		5.72		0.001	<0.005	<0.001	0.01	5.92	0.5	30	1.98	0.06	0.25	<0.02	48.1	0.5
ESA012D_450.0-452.0		2.16		0.001	<0.005	<0.001	0.01	5.30	0.2	50	1.69	0.07	0.22	<0.02	23.5	1.0
ESA012D_452.0-454.0		2.71		0.001	<0.005	<0.001	0.02	5.76	0.4	90	2.14	0.22	0.24	<0.02	14.95	1.2
ESA012D_454.0-456.0		2.28		<0.001	<0.005	<0.001	0.01	6.00	0.5	80	2.23	0.05	0.24	0.02	14.15	1.3
ESA012D_456.0-458.0		2.77		<0.001	<0.005	<0.001	0.01	3.18	0.6	20	1.18	0.03	0.16	<0.02	16.80	0.4
ESA012D_458.0-460.0		2.50		0.001	<0.005	<0.001	0.03	3.67	0.5	50	1.21	0.03	0.14	0.04	7.65	0.6
ESA012D_460.0-462.0		2.40		0.001	<0.005	<0.001	0.03	4.54	0.5	40	1.47	0.06	0.15	0.03	12.05	1.1
ESA012D_462.0-464.0		2.33		0.001	<0.005	<0.001	0.01	2.61	0.6	20	0.90	0.07	0.11	<0.02	9.46	0.5
ESA012D_464.0-466.0		2.18		0.001	<0.005	<0.001	0.02	3.10	1.0	20	0.94	0.04	0.12	0.04	17.30	0.8
ESA012D_466.0-468.0		2.22		0.001	<0.005	<0.001	0.01	3.48	0.6	20	0.95	0.02	0.14	0.03	18.45	0.4
ESA012D_468.0-470.0		2.14		0.001	<0.005	0.001	0.02	3.85	0.6	30	1.09	0.03	0.17	0.30	10.05	0.9
ESA012D_470.0-471.0		1.16		0.001	<0.005	<0.001	0.02	3.47	0.7	80	1.06	0.02	0.19	0.05	3.13	0.8
ESA012D_471.0-472.0		1.00		0.001	<0.005	<0.001	0.03	2.61	1.1	40	0.90	0.02	0.11	0.05	2.86	1.0
ESA012D_472.0-473.0		1.22		0.001	<0.005	<0.001	0.02	1.04	1.1	20	0.41	0.02	0.04	0.02	3.90	0.5
ESA012D_473.0-474.0		1.13		0.002	<0.005	<0.001	0.04	1.25	<0.2	10	0.63	0.21	0.03	0.03	2.32	0.9
ESA012D_474.0-476.0		2.52		0.001	<0.005	<0.001	0.03	2.15	<0.2	20	1.00	0.30	0.06	0.09	2.56	2.0
ESA012D_476.0-478.0		2.37		0.001	<0.005	<0.001	0.03	1.80	0.3	20	0.94	0.04	0.06	0.06	9.39	1.0
ESA012D_478.0-480.0		2.15		0.001	<0.005	<0.001	0.02	2.38	1.1	20	0.92	0.07	0.07	0.29	4.13	1.3
ESA012D_480.0-482.0		2.75		0.002	<0.005	<0.001	0.02	9.63	<0.2	70	3.01	0.07	0.33	2.16	31.9	1.9
ESA012D_482.0-484.0		2.33		0.001	<0.005	<0.001	0.02	6.15	0.9	20	2.13	0.03	0.27	0.42	46.7	1.3
ESA012D_484.0-486.0		2.03		0.002	<0.005	<0.001	0.05	4.98	0.5	10	1.86	0.07	0.23	0.56	29.5	1.6
ESA012D_486.0-488.0		2.25		0.002	<0.005	<0.001	0.30	2.69	0.7	10	1.29	0.43	0.13	0.11	23.1	1.7
ESA012D_488.0-490.0		2.45		0.001	<0.005	<0.001	0.11	5.15	0.8	10	1.74	0.25	0.26	0.11	24.5	2.6
ESA012D_490.0-492.0		2.38		0.002	<0.005	<0.001	0.07	4.14	0.7	10	1.49	0.23	0.20	0.09	18.85	2.4
ESA012D_492.0-494.0		2.29		0.002	<0.005	<0.001	0.04	2.71	<0.2	10	1.01	0.29	0.11	0.07	21.3	1.7



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048

Page: 2 - B
Total # Pages: 3 (A - E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

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
ESA12D_013		4	0.70	2.1	0.42	4.18	0.05	1.4	0.015	3.16	4.0	2.2	0.03	38	0.31	0.08
ESA12D_014		40	6.18	7690	4.74	10.50	0.21	1.0	0.578	1.50	20.6	32.7	0.59	908	948	1.02
ESA12D_015																
ESA012D_400.0-405.0		5	1.56	2.4	0.56	18.10	0.09	2.5	0.014	0.40	20.4	3.6	0.48	53	0.29	6.53
ESA012D_405.0-410.0		4	1.14	1.5	0.58	15.75	0.07	2.3	0.016	0.54	19.2	3.4	0.46	57	0.19	5.62
ESA012D_410.0-415.0		6	1.24	0.9	0.73	15.80	0.08	2.7	0.010	0.30	16.8	5.5	0.62	66	0.36	5.98
ESA012D_415.0-420.0		5	0.89	1.0	0.66	16.40	0.09	2.7	0.016	0.38	22.1	3.6	0.48	70	0.31	5.15
ESA012D_420.0-422.0		5	0.60	0.7	0.58	16.65	0.06	2.7	0.010	0.30	20.7	4.4	0.64	61	0.22	5.88
ESA012D_422.0-424.0		5	0.79	0.9	0.63	13.55	0.08	2.4	0.012	0.35	16.1	4.0	0.52	65	0.21	4.19
ESA012D_424.0-426.0		6	0.74	1.4	0.70	12.85	0.07	2.7	0.009	0.22	19.0	4.7	0.58	82	0.41	4.86
ESA012D_426.0-428.0		4	1.26	0.9	0.49	17.70	0.09	4.1	0.009	0.38	35.0	4.3	0.53	71	0.20	6.45
ESA012D_428.0-430.0		5	4.03	1.2	0.61	15.15	0.08	3.0	0.010	0.92	15.4	6.6	0.49	73	0.30	4.70
ESA012D_430.0-435.0		12	2.29	0.8	0.70	17.00	0.06	3.5	<0.005	0.63	11.3	8.0	0.66	146	0.36	5.43
ESA012D_435.0-440.0		21	3.07	0.5	0.97	21.4	0.08	2.2	0.023	1.32	17.0	12.8	1.18	135	0.16	3.63
ESA012D_440.0-445.0		13	1.79	0.8	0.71	14.15	0.08	2.7	0.009	0.53	27.0	8.8	0.66	112	0.24	4.10
ESA012D_445.0-450.0		3	0.37	1.3	0.46	10.55	0.08	3.8	<0.005	0.11	23.1	2.7	0.28	51	0.21	4.60
ESA012D_450.0-452.0		9	2.69	1.0	0.73	13.45	0.07	2.3	0.007	0.81	10.0	12.6	0.87	92	0.19	2.77
ESA012D_452.0-454.0		13	3.89	1.3	0.98	17.50	0.08	2.5	0.022	1.49	6.1	12.4	0.96	95	0.22	2.11
ESA012D_454.0-456.0		13	3.70	1.1	1.25	19.25	0.08	3.3	0.013	1.35	5.0	16.2	1.56	143	0.24	2.20
ESA012D_456.0-458.0		3	0.95	0.8	0.57	6.53	0.07	2.1	<0.005	0.22	6.9	5.8	0.51	78	0.18	1.96
ESA012D_458.0-460.0		5	2.22	1.3	0.82	11.35	0.07	2.2	0.009	0.94	3.1	8.6	0.81	91	0.27	1.24
ESA012D_460.0-462.0		16	2.28	1.4	1.06	15.80	0.06	2.1	0.007	0.78	4.1	14.3	1.36	118	0.28	1.88
ESA012D_462.0-464.0		6	1.07	1.2	0.66	7.27	0.05	1.6	<0.005	0.33	3.5	9.5	0.57	84	0.23	1.35
ESA012D_464.0-466.0		4	1.18	1.4	0.86	10.25	0.06	2.4	<0.005	0.35	7.4	10.6	1.25	107	0.25	1.32
ESA012D_466.0-468.0		4	0.87	1.9	0.67	7.23	0.06	2.3	<0.005	0.21	5.2	3.0	0.32	84	0.38	2.42
ESA012D_468.0-470.0		4	1.39	1.0	0.87	10.70	0.06	3.0	<0.005	0.43	2.9	13.3	1.37	114	0.17	1.76
ESA012D_470.0-471.0		5	2.33	2.7	1.01	9.73	0.06	2.1	<0.005	1.15	1.4	14.2	1.32	110	0.33	0.26
ESA012D_471.0-472.0		6	2.59	2.8	1.18	8.29	0.06	1.0	<0.005	0.79	1.1	15.2	1.22	144	0.46	0.03
ESA012D_472.0-473.0		4	1.20	2.2	0.87	3.32	0.05	0.3	<0.005	0.35	1.8	7.4	0.44	95	0.35	0.03
ESA012D_473.0-474.0		5	1.96	2.2	1.07	4.85	0.05	0.3	<0.005	0.43	1.0	14.6	0.65	121	0.47	0.02
ESA012D_474.0-476.0		3	2.54	2.0	1.26	8.72	0.05	0.4	<0.005	0.63	1.1	21.5	1.51	152	0.32	0.02
ESA012D_476.0-478.0		2	2.02	1.7	0.95	8.22	0.06	0.4	<0.005	0.47	4.0	15.6	1.19	104	0.22	0.02
ESA012D_478.0-480.0		3	2.39	2.1	1.29	10.65	0.06	0.6	0.010	0.60	2.7	22.9	1.39	127	0.31	0.11
ESA012D_480.0-482.0		2	5.83	1.1	2.09	32.4	0.12	3.2	0.051	2.48	16.4	24.1	2.59	177	0.19	2.18
ESA012D_482.0-484.0		2	2.25	1.1	1.24	18.15	0.11	2.2	0.008	0.43	19.8	16.0	1.66	127	0.17	3.42
ESA012D_484.0-486.0		2	2.51	1.4	1.40	15.60	0.08	1.4	<0.005	0.19	12.8	20.4	1.86	161	0.18	2.49
ESA012D_486.0-488.0		2	4.19	6.0	1.46	11.75	0.07	0.6	<0.005	0.28	15.1	52.2	1.59	125	0.29	0.04
ESA012D_488.0-490.0		2	2.07	1.5	1.97	20.2	0.09	1.3	<0.005	0.16	10.7	31.0	3.21	179	0.11	1.21
ESA012D_490.0-492.0		2	2.18	1.2	1.63	15.70	0.08	1.1	<0.005	0.17	9.3	27.0	2.29	165	0.19	1.34
ESA012D_492.0-494.0		2	2.28	2.7	1.35	10.45	0.08	0.8	<0.005	0.22	9.8	28.9	1.57	161	0.27	0.41



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048

Page: 2 - C
Total # Pages: 3 (A - E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

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
ESA12D_013		0.9	1.1	30	8.2	114.5	<0.002	<0.01	0.15	0.4	<1	0.4	13.4	0.08	<0.05
ESA12D_014		6.6	7070	640	8010	89.5	0.493	3.19	746	4.8	3	2.3	91.4	0.53	0.26
ESA12D_015															
ESA012D_400.0-405.0		14.5	3.0	830	7.2	52.3	<0.002	0.03	0.11	3.8	<1	7.3	62.1	1.72	<0.05
ESA012D_405.0-410.0		10.2	2.4	830	5.9	59.7	<0.002	0.01	<0.05	4.2	<1	6.6	55.3	1.46	<0.05
ESA012D_410.0-415.0		12.2	2.9	1090	5.0	30.5	<0.002	0.03	0.05	3.7	<1	5.9	53.4	1.55	<0.05
ESA012D_415.0-420.0		12.5	2.7	1110	6.4	43.6	<0.002	0.02	0.12	3.7	<1	7.0	53.6	1.68	<0.05
ESA012D_420.0-422.0		14.0	3.0	1130	4.9	31.4	<0.002	0.02	<0.05	3.8	<1	6.7	62.1	1.93	<0.05
ESA012D_422.0-424.0		11.0	3.0	800	4.6	45.5	<0.002	0.02	0.05	3.9	<1	6.4	49.0	1.52	<0.05
ESA012D_424.0-426.0		9.3	3.4	810	4.4	31.0	<0.002	0.02	0.06	2.8	<1	4.8	52.5	1.41	<0.05
ESA012D_426.0-428.0		8.3	3.2	750	6.8	60.9	<0.002	0.02	0.13	2.9	<1	4.5	68.8	1.35	<0.05
ESA012D_428.0-430.0		12.2	3.7	770	5.0	160.0	<0.002	0.16	0.09	3.0	<1	6.0	55.4	1.80	<0.05
ESA012D_430.0-435.0		13.6	5.4	1060	8.9	102.5	<0.002	0.12	0.05	3.7	<1	6.2	58.3	1.80	<0.05
ESA012D_435.0-440.0		13.3	13.9	790	6.6	161.0	<0.002	0.03	<0.05	6.8	<1	9.9	38.6	1.53	<0.05
ESA012D_440.0-445.0		8.8	7.3	590	4.0	69.9	<0.002	0.02	<0.05	3.6	<1	4.9	41.1	1.12	<0.05
ESA012D_445.0-450.0		6.8	1.9	400	5.1	10.4	<0.002	<0.01	<0.05	1.7	<1	3.1	45.0	1.04	<0.05
ESA012D_450.0-452.0		9.5	5.9	520	4.4	92.3	<0.002	0.05	<0.05	4.8	<1	6.9	28.7	1.10	<0.05
ESA012D_452.0-454.0		11.3	8.6	600	4.2	173.0	<0.002	0.05	<0.05	5.8	<1	8.2	29.2	1.28	<0.05
ESA012D_454.0-456.0		13.5	11.0	610	6.3	163.0	<0.002	0.05	<0.05	7.4	<1	10.8	32.8	1.40	<0.05
ESA012D_456.0-458.0		6.0	3.0	360	14.5	27.3	<0.002	0.01	<0.05	1.7	<1	2.5	25.6	0.94	<0.05
ESA012D_458.0-460.0		6.9	5.1	400	3.2	111.0	<0.002	0.01	<0.05	3.8	<1	6.0	16.8	0.96	<0.05
ESA012D_460.0-462.0		12.5	10.0	350	3.9	91.1	<0.002	0.06	<0.05	5.4	<1	6.0	24.9	1.14	<0.05
ESA012D_462.0-464.0		5.4	3.8	270	4.0	36.7	<0.002	0.02	0.06	2.8	<1	3.3	18.3	0.68	<0.05
ESA012D_464.0-466.0		5.1	7.9	340	6.8	37.9	<0.002	0.01	<0.05	3.4	<1	3.6	17.5	0.65	<0.05
ESA012D_466.0-468.0		4.3	2.6	350	4.4	26.8	<0.002	<0.01	<0.05	2.0	<1	2.4	25.7	0.57	<0.05
ESA012D_468.0-470.0		6.2	7.5	520	6.9	41.4	<0.002	0.03	<0.05	3.3	<1	3.2	21.6	0.80	<0.05
ESA012D_470.0-471.0		4.7	5.3	770	10.4	100.5	<0.002	0.01	0.05	3.4	<1	5.0	7.1	0.65	<0.05
ESA012D_471.0-472.0		4.7	6.2	390	13.7	89.0	<0.002	0.02	<0.05	3.0	<1	3.6	4.9	0.63	<0.05
ESA012D_472.0-473.0		1.8	2.4	120	5.9	34.4	<0.002	<0.01	0.09	0.9	<1	1.5	2.8	0.17	<0.05
ESA012D_473.0-474.0		1.5	4.2	120	11.0	59.5	<0.002	0.03	0.07	1.4	<1	2.7	2.4	0.25	<0.05
ESA012D_474.0-476.0		2.0	7.6	210	11.8	81.7	<0.002	0.08	<0.05	2.4	<1	4.8	2.8	0.38	<0.05
ESA012D_476.0-478.0		1.9	7.2	210	8.9	61.8	<0.002	0.03	0.06	2.5	<1	5.7	3.4	0.35	<0.05
ESA012D_478.0-480.0		2.4	8.4	240	6.9	79.3	<0.002	0.03	0.08	3.0	<1	5.2	4.6	0.30	<0.05
ESA012D_480.0-482.0		10.7	10.8	1010	5.6	223	<0.002	0.05	<0.05	8.8	<1	23.3	30.2	1.30	<0.05
ESA012D_482.0-484.0		6.6	10.8	700	13.4	53.1	<0.002	0.04	<0.05	4.2	<1	8.7	45.1	0.79	<0.05
ESA012D_484.0-486.0		4.4	14.8	550	25.6	32.0	<0.002	0.01	<0.05	2.6	<1	4.4	38.4	0.54	<0.05
ESA012D_486.0-488.0		3.0	17.0	290	40.3	49.5	<0.002	<0.01	0.11	2.5	<1	2.1	12.4	0.33	<0.05
ESA012D_488.0-490.0		5.3	24.9	640	33.4	26.3	<0.002	0.01	<0.05	4.1	<1	2.4	32.3	0.63	<0.05
ESA012D_490.0-492.0		4.4	19.4	470	29.7	30.9	<0.002	0.08	<0.05	3.2	1	2.6	28.3	0.56	<0.05
ESA012D_492.0-494.0		3.8	13.1	290	28.9	38.6	<0.002	0.04	0.05	2.2	<1	1.8	13.0	0.41	<0.05



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
 UNIT 8
 7-29 BRIDGE RD
 STANMORE NSW 2048

Page: 2 - D
 Total # Pages: 3 (A - E)
 Plus Appendix Pages
 Finalized Date: 4-JUN-2025
 Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

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
ESA12D_013		0.024	0.44	0.4	4	0.1	2.1	<2	56.9	0.37	0.24	0.19	0.41	0.08	0.05	3.4
ESA12D_014		0.211	1.40	2.1	45	6.7	9.9	8160	40.2	2.31	1.00	0.71	3.20	0.39	0.13	18.6
ESA12D_015																
ESA012D_400.0-405.0		0.148	0.28	27.1	10	0.5	18.0	5	98.2	3.34	1.60	0.41	3.50	0.61	0.19	17.8
ESA012D_405.0-410.0		0.117	0.26	26.7	13	0.5	12.1	3	85.0	2.66	1.24	0.33	3.00	0.45	0.15	16.6
ESA012D_410.0-415.0		0.149	0.17	20.9	14	0.4	13.0	3	102.5	2.94	1.20	0.40	3.31	0.49	0.13	16.0
ESA012D_415.0-420.0		0.114	0.21	22.8	12	0.6	15.0	2	98.8	3.11	1.34	0.41	3.70	0.53	0.13	19.6
ESA012D_420.0-422.0		0.134	0.17	18.8	13	0.6	16.5	5	104.0	3.16	1.42	0.38	3.59	0.57	0.16	18.9
ESA012D_422.0-424.0		0.107	0.20	17.5	12	0.5	11.8	2	89.5	2.47	1.20	0.32	2.89	0.45	0.15	14.6
ESA012D_424.0-426.0		0.101	0.17	18.8	13	0.4	11.5	8	101.0	2.52	1.10	0.34	2.84	0.44	0.13	15.8
ESA012D_426.0-428.0		0.087	0.33	35.1	14	0.4	13.0	<2	149.5	2.85	1.23	0.43	3.80	0.48	0.14	27.7
ESA012D_428.0-430.0		0.120	0.93	25.7	16	0.7	15.2	4	112.0	2.96	1.32	0.34	3.25	0.51	0.16	14.9
ESA012D_430.0-435.0		0.149	0.62	26.6	19	0.8	18.4	10	127.5	3.63	1.64	0.29	3.46	0.62	0.21	12.3
ESA012D_435.0-440.0		0.184	0.78	15.6	41	1.2	16.2	12	86.0	3.13	1.46	0.32	3.25	0.54	0.16	15.0
ESA012D_440.0-445.0		0.116	0.35	20.6	22	0.6	11.0	7	102.5	2.34	1.05	0.29	2.85	0.41	0.13	21.4
ESA012D_445.0-450.0		0.061	0.06	27.3	6	0.4	8.6	2	126.5	1.87	0.84	0.23	2.35	0.33	0.10	16.0
ESA012D_450.0-452.0		0.083	0.44	18.4	22	0.5	9.5	6	76.9	1.89	0.93	0.15	1.84	0.36	0.12	8.1
ESA012D_452.0-454.0		0.108	0.62	13.4	33	0.9	13.8	8	85.9	2.63	1.31	0.17	2.14	0.49	0.14	6.0
ESA012D_454.0-456.0		0.112	0.61	20.1	55	0.7	18.0	13	115.0	3.38	1.69	0.19	2.54	0.64	0.20	5.3
ESA012D_456.0-458.0		0.052	0.15	9.8	12	0.2	9.8	8	67.9	1.92	0.96	0.15	1.77	0.37	0.10	6.0
ESA012D_458.0-460.0		0.057	0.43	13.0	28	0.6	8.4	10	74.7	1.56	0.76	0.10	1.40	0.30	0.09	3.3
ESA012D_460.0-462.0		0.108	0.37	19.3	53	0.8	9.2	12	73.7	1.94	0.98	0.12	1.54	0.36	0.12	4.2
ESA012D_462.0-464.0		0.050	0.18	10.4	18	0.3	6.9	4	52.9	1.38	0.67	0.09	1.16	0.26	0.08	3.4
ESA012D_464.0-466.0		0.048	0.18	13.1	29	0.4	7.8	11	81.5	1.55	0.72	0.12	1.50	0.28	0.08	5.9
ESA012D_466.0-468.0		0.043	0.16	9.0	10	0.4	6.5	4	78.6	1.32	0.63	0.11	1.26	0.24	0.07	4.9
ESA012D_468.0-470.0		0.053	0.19	24.5	25	0.3	7.5	13	101.5	1.48	0.77	0.08	1.22	0.28	0.10	3.2
ESA012D_470.0-471.0		0.040	0.35	9.4	15	0.4	5.8	30	67.0	1.18	0.60	0.06	0.95	0.22	0.07	1.7
ESA012D_471.0-472.0		0.035	0.37	8.2	14	0.3	4.8	46	34.4	1.00	0.50	0.05	0.79	0.18	0.06	1.5
ESA012D_472.0-473.0		0.016	0.15	3.4	5	0.4	2.0	18	10.4	0.42	0.21	0.03	0.38	0.08	0.02	1.6
ESA012D_473.0-474.0		0.014	0.26	3.5	9	0.2	1.5	29	10.0	0.33	0.16	<0.03	0.29	0.06	0.02	1.0
ESA012D_474.0-476.0		0.017	0.33	5.5	17	0.2	2.5	49	13.6	0.54	0.27	0.03	0.39	0.10	0.04	1.2
ESA012D_476.0-478.0		0.017	0.21	7.2	15	0.2	3.8	49	14.4	0.72	0.37	0.06	0.67	0.14	0.06	3.4
ESA012D_478.0-480.0		0.019	0.35	14.2	16	0.3	2.4	25	17.5	0.46	0.24	0.04	0.47	0.09	0.03	2.2
ESA012D_480.0-482.0		0.081	0.92	32.5	33	1.3	8.2	26	89.2	1.86	0.84	0.18	2.16	0.32	0.10	14.8
ESA012D_482.0-484.0		0.050	0.25	45.9	21	0.4	10.6	46	60.6	2.35	1.00	0.23	2.67	0.40	0.11	16.9
ESA012D_484.0-486.0		0.033	0.19	33.8	18	0.3	5.0	161	45.0	1.32	0.57	0.13	1.48	0.21	0.07	10.9
ESA012D_486.0-488.0		0.021	0.27	13.0	20	0.8	3.8	298	19.1	0.82	0.36	0.10	1.12	0.15	0.04	10.1
ESA012D_488.0-490.0		0.039	0.17	11.5	31	0.4	5.7	434	40.1	1.30	0.64	0.12	1.42	0.24	0.08	8.6
ESA012D_490.0-492.0		0.032	0.19	10.0	23	0.4	5.4	254	33.5	1.14	0.59	0.09	1.15	0.22	0.07	6.9
ESA012D_492.0-494.0		0.026	0.24	9.1	16	0.3	5.8	201	26.0	1.24	0.60	0.09	1.13	0.23	0.07	7.0



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048

Page: 2 - E
Total # Pages: 3 (A - E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

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
ESA12D_013		0.88	0.57	0.06	0.04	0.31
ESA12D_014		4.52	3.79	0.42	0.13	0.87
ESA12D_015						
ESA012D_400.0-405.0		4.65	4.15	0.57	0.23	1.50
ESA012D_405.0-410.0		4.34	3.61	0.46	0.17	1.18
ESA012D_410.0-415.0		3.93	3.73	0.52	0.15	0.98
ESA012D_415.0-420.0		5.07	4.33	0.56	0.17	1.04
ESA012D_420.0-422.0		4.89	4.26	0.56	0.20	1.28
ESA012D_422.0-424.0		3.69	3.33	0.45	0.17	1.08
ESA012D_424.0-426.0		4.11	3.42	0.43	0.15	1.03
ESA012D_426.0-428.0		7.51	5.33	0.53	0.16	1.04
ESA012D_428.0-430.0		3.73	3.74	0.49	0.19	1.22
ESA012D_430.0-435.0		3.02	3.31	0.57	0.24	1.50
ESA012D_435.0-440.0		3.83	3.59	0.52	0.18	1.20
ESA012D_440.0-445.0		5.84	3.95	0.41	0.15	0.94
ESA012D_445.0-450.0		4.80	3.01	0.33	0.11	0.69
ESA012D_450.0-452.0		2.32	1.90	0.29	0.14	0.86
ESA012D_452.0-454.0		1.58	1.72	0.36	0.18	1.12
ESA012D_454.0-456.0		1.34	1.88	0.48	0.23	1.42
ESA012D_456.0-458.0		1.59	1.64	0.30	0.13	0.80
ESA012D_458.0-460.0		0.85	1.08	0.23	0.10	0.62
ESA012D_460.0-462.0		1.11	1.26	0.28	0.14	0.91
ESA012D_462.0-464.0		0.91	0.94	0.20	0.09	0.56
ESA012D_464.0-466.0		1.68	1.50	0.24	0.09	0.59
ESA012D_466.0-468.0		1.38	1.30	0.20	0.08	0.52
ESA012D_468.0-470.0		0.85	0.95	0.21	0.11	0.67
ESA012D_470.0-471.0		0.40	0.66	0.16	0.08	0.50
ESA012D_471.0-472.0		0.36	0.58	0.15	0.07	0.43
ESA012D_472.0-473.0		0.44	0.40	0.06	0.03	0.18
ESA012D_473.0-474.0		0.27	0.28	0.05	0.02	0.15
ESA012D_474.0-476.0		0.30	0.34	0.07	0.04	0.25
ESA012D_476.0-478.0		0.95	0.75	0.11	0.06	0.36
ESA012D_478.0-480.0		0.60	0.48	0.07	0.03	0.22
ESA012D_480.0-482.0		4.32	3.11	0.30	0.12	0.76
ESA012D_482.0-484.0		4.92	3.86	0.39	0.14	0.85
ESA012D_484.0-486.0		3.26	2.30	0.21	0.08	0.54
ESA012D_486.0-488.0		2.95	1.80	0.14	0.05	0.30
ESA012D_488.0-490.0		2.52	1.82	0.21	0.09	0.56
ESA012D_490.0-492.0		2.01	1.42	0.18	0.08	0.53
ESA012D_492.0-494.0		2.08	1.39	0.18	0.08	0.51



Project: ESA12D

Page: 3 – A
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

[illegible]

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



**To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048**

Project: ESA12D

Page: 3 – B
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

[illegible]

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



Project: ESA12D

Page: 3 – C
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

[illegible]



**To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048**

Project: ESA12D

Page: 3 – D
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

[illegible]

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



Project: ESA12D

Page: 3 – E
Total # Pages: 3 (A – E)
Plus Appendix Pages
Finalized Date: 4-JUN-2025
Account: EARTOP

CERTIFICATE OF ANALYSIS AD25136414

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



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

To: EARTH AI OPERATIONS AUSTRALIA PTY LTD
UNIT 8
7-29 BRIDGE RD
STANMORE NSW 2048

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-JUN-2025
Account: EARTOP

Project: ESA12D

CERTIFICATE OF ANALYSIS AD25136414

	CERTIFICATE COMMENTS
	<p>ANALYTICAL COMMENTS</p> <p>Applies to Method: REEs may not be totally soluble in this method. ME-MS61r</p> <p>LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Perth located at 29 & 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>