



Australian Laboratory Services Pty. Ltd.
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To: **ROCKWELL MINERALS (TASMANIA)**
PO BOX 10555
ADELAIDE ST
BRISBANE QLD 4000

Page: 1
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 19-SEP-2022
 Account: ROCMINTAS

QC CERTIFICATE BU22171725

Project: Elementos

This report is for 121 samples of Drill Core submitted to our lab in Burnie, TAS, Australia on 27-JUN-2022.

The following have access to data associated with this certificate:

CHRIS CREAGH	JIE YU	
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
LEV-01	Waste Disposal Levy
BAG-21	Raw Sample in a new bag
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS89L	Super Trace DL Na2O2 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:

Saa Traxler, Director, North Vancouver Operations



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QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method Analyte Units LOD	ME-MS89L														
		Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe %
		5	4	2	0.4	0.1	0.1	0.8	0.2	0.5	0.1	20	0.03	0.02	0.03	0.05
STANDARDS																
AMIS0341		<5	26	154	220	21.8	0.5	<0.8	0.9	4.0	447	50	0.31	0.16	<0.03	0.96
AMIS0341		6	24	145	219	20.9	0.5	<0.8	0.9	3.3	406	50	0.29	0.15	0.04	0.88
AMIS0341		5	25	157	211	21.4	0.4	<0.8	1.0	3.9	436	60	0.25	0.14	0.05	0.96
Target Range - Lower Bound		<5	13	136	<0.4	21.6	0.4	<0.8	0.6	2.4	404	<20	0.20	0.09	<0.03	0.79
Upper Bound		10	32	170	0.8	26.6	0.8	1.6	1.5	4.8	494	100	0.34	0.19	0.13	1.08
AMIS0343		5	17	77	230	2.4	0.2	<0.8	1.0	2.8	348	60	0.17	0.13	<0.03	0.90
AMIS0343		6	50	76	230	3.0	0.2	<0.8	1.1	2.6	327	50	0.17	0.08	0.03	0.88
AMIS0343		<5	20	74	230	2.4	0.3	<0.8	1.2	2.7	350	50	0.12	0.10	0.06	0.87
Target Range - Lower Bound		<5	<4	68	209	2.2	<0.1	<0.8	0.6	1.5	309	<20	0.09	<0.02	<0.03	0.71
Upper Bound		10	22	87	257	2.9	0.5	1.6	1.6	3.7	377	90	0.23	0.10	0.09	0.99
GTA-01		8	6	57	179.0	1.5	0.2	<0.8	0.3	0.8	151.5	<20	0.07	<0.02	0.05	0.53
GTA-01		8	<4	51	183.5	1.5	0.2	<0.8	0.3	0.7	137.5	<20	0.09	<0.02	<0.03	0.53
GTA-01		5	<4	51	182.0	1.4	0.1	<0.8	0.2	0.8	148.0	<20	0.04	<0.02	0.03	0.57
Target Range - Lower Bound		<5	<4	48	165.0	1.4	<0.1	<0.8	<0.2	<0.5	132.5	<20	<0.03	<0.02	<0.03	0.41
Upper Bound		15	10	64	202	2.0	0.5	2.1	0.7	1.6	162.0	50	0.15	0.07	0.09	0.66
OREAS 146		<5	6	13150	13.0	3.0	12.2	1.8	4140	32.6	0.5	40	209	82.5	112.5	19.55
OREAS 146		<5	4	13300	13.9	2.9	12.7	1.7	4060	31.4	0.5	30	211	82.3	116.0	18.50
OREAS 146		5	<4	13900	12.7	3.0	12.5	1.8	4450	35.0	0.6	40	214	80.3	112.5	20.5
Target Range - Lower Bound		<5	<4	11900	11.8	2.3	10.8	<0.8	3910	30.0	0.3	<20	202	78.3	111.0	18.30
Upper Bound		15	22	14600	15.3	3.1	13.4	3.7	4790	37.8	0.7	80	246	95.7	136.0	22.5
OREAS-77b		<5	2280	124	0.5	3.1	3.0	1.5	26.5	1605	2.1	3500	1.42	0.77	0.29	>25.0
OREAS-77b		<5	2250	123	0.7	3.1	3.0	1.4	25.8	1540	2.2	3200	1.40	0.84	0.35	>25.0
OREAS-77b		<5	2150	119	<0.4	3.9	3.1	0.9	25.0	1495	2.4	3140	1.40	0.79	0.34	>25.0
Target Range - Lower Bound		<5	2030	110	<0.4	2.7	2.7	<0.8	22.9	1450	1.9	2950	1.17	0.71	0.30	28.6
Upper Bound		15	2490	138	1.3	3.5	3.5	2.7	28.5	1770	2.5	3650	1.49	0.91	0.46	>25.0
SY-5		<5	<4	6270	5.6	0.2	4.8	<0.8	427	25.2	0.4	40	10.80	5.43	7.50	7.65
SY-5		<5	<4	6440	4.6	0.1	4.5	<0.8	406	24.1	0.6	40	10.05	5.14	6.80	7.51
SY-5		<5	<4	6550	5.1	0.1	5.0	<0.8	453	24.5	0.6	40	11.05	5.15	7.11	7.49
Target Range - Lower Bound		<5	<4	5830	3.6	0.6	6.2	<0.8	413	20.3	0.4	<20	10.15	4.82	6.85	8.95
Upper Bound		10	9	7130	5.7	1.1	7.8	1.7	505	25.9	0.8	80	12.50	5.94	8.43	11.05



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QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method Analyte Units LOD	ME-MS89L														
		Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	0.01	10	2	0.8	0.07	10
STANDARDS																
AMIS0341		45.5	0.24	8.8	0.03	<0.3	2.85	0.70	4880	<0.05	0.20	1790	6	117.0	0.48	30
AMIS0341		40.5	0.27	8.0	0.05	<0.3	2.78	0.60	4930	<0.05	0.20	1720	5	116.0	0.48	20
AMIS0341		45.2	0.18	9.8	0.05	<0.3	2.78	0.74	4740	<0.05	0.20	1850	6	125.0	0.57	20
Target Range - Lower Bound		36.9	0.14	<0.5	0.03	<0.3	2.50	0.40	4530	<0.05		1450	<2	111.5	0.32	<10
Upper Bound		46.2	0.28	1.4	0.07	0.6	3.16	0.78	5550	0.12		1790	8	138.5	0.64	40
AMIS0343		43.3	0.18	8.3	0.02	<0.3	2.43	0.58	7030	<0.05	0.12	930	4	42.1	0.50	20
AMIS0343		45.3	0.14	7.9	0.04	<0.3	2.41	0.69	7010	<0.05	0.11	980	7	42.5	0.70	40
AMIS0343		44.5	0.22	7.0	0.03	<0.3	2.48	0.68	7100	<0.05	0.12	1000	4	41.4	0.53	<10
Target Range - Lower Bound		39.7	0.09	6.1	<0.01	<0.3	2.16	0.39	6310	<0.05		840	<2	37.0	0.44	<10
Upper Bound		49.7	0.23	8.9	0.05	0.7	2.76	0.77	7720	0.12		1040	8	47.0	0.78	30
GTA-01		55.0	0.07	6.4	0.01	<0.3	2.19	0.26	3300	<0.05	0.03	910	6	38.9	<0.07	20
GTA-01		57.0	0.06	6.7	<0.01	<0.3	2.18	0.36	3400	<0.05	0.02	930	4	46.0	0.21	10
GTA-01		56.9	<0.03	6.6	<0.01	<0.3	2.15	0.22	3270	<0.05	0.02	970	4	44.9	0.10	20
Target Range - Lower Bound		47.5	<0.03	5.7	<0.01	<0.3	1.91	<0.08	3020	<0.05		800	<2	41.5	<0.07	<10
Upper Bound		59.1	0.13	8.5	0.03	0.7	2.45	0.42	3700	0.13		1000	6	52.5	0.25	40
OREAS 146		7.7	316	4.9	32.3	<0.3	1.08	2390	23	5.74	3.94	18800	59	354	1975	90
OREAS 146		7.9	309	5.0	32.4	<0.3	1.08	2320	26	5.84	4.03	18600	56	364	1975	70
OREAS 146		5.3	328	5.3	33.2	0.4	1.07	2480	24	5.59	3.99	19900	61	388	2090	100
Target Range - Lower Bound		7.2	309	4.3	31.8	<0.3	0.90	2260	21	5.62	3.72	18550	52	348	1935	60
Upper Bound		10.0	377	6.9	38.8	1.0	1.22	2760	31	6.98	4.56	22700	68	428	2370	110
OREAS-77b		5.2	1.64	1.6	0.27	<0.3	0.35	14.55	18	0.11	2.47	670	2	1.1	8.95	>25000
OREAS-77b		4.7	1.47	1.0	0.28	<0.3	0.36	14.25	19	0.12	2.42	670	6	3.2	8.94	>25000
OREAS-77b		2.2	1.44	0.6	0.31	<0.3	0.37	14.00	11	0.18	2.47	650	4	2.1	8.91	>25000
Target Range - Lower Bound		3.3	1.33	<0.5	0.24	<0.3	0.25	12.95	16	<0.05		590	<2	0.9	8.39	102000
Upper Bound		5.7	1.69	2.7	0.31	0.9	0.49	16.05	26	0.21		750	8	4.4	10.40	>25000
SY-5		19.7	18.60	1.7	1.85	<0.3	3.35	217	47	0.62	1.81	980	9	21.4	200	80
SY-5		20.1	18.05	1.5	1.84	<0.3	3.36	218	43	0.58	1.75	1010	12	22.6	189.0	90
SY-5		20.9	18.95	1.7	1.90	<0.3	3.50	224	47	0.63	1.84	1060	9	22.1	199.5	60
Target Range - Lower Bound		18.9	17.80	<0.5	1.83	<0.3	3.55	202	43	0.57	2.69	<10	4	19.2	187.0	60
Upper Bound		24.3	21.8	2.1	2.25	0.7	4.45	248	56	0.84	3.31	20	13	25.2	229	100



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QC CERTIFICATE OF ANALYSIS BU22171725

Method Analyte Units LOD	ME-MS89L Pb ppm	ME-MS89L Pr ppm	ME-MS89L Rb ppm	ME-MS89L Re ppm	ME-MS89L Sb ppm	ME-MS89L Se ppm	ME-MS89L Sm ppm	ME-MS89L Sn ppm	ME-MS89L Sr ppm	ME-MS89L Ta ppm	ME-MS89L Tb ppm	ME-MS89L Te ppm	ME-MS89L Th ppm	ME-MS89L Ti %	ME-MS89L Tl ppm
Sample Description	0.5	0.03	0.5	0.01	0.3	3	0.04	3	20	0.04	0.01	0.5	0.1	0.005	0.02
STANDARDS															
AMIS0341	11.4	0.11	4150	<0.01	12.4	<3	0.09	95	20	717	0.05	<0.5	5.0	0.015	35.0
AMIS0341	10.3	0.14	3820	<0.01	11.6	<3	0.14	80	20	719	0.05	<0.5	5.0	0.013	36.0
AMIS0341	11.7	0.10	4220	<0.01	12.4	<3	0.09	92	20	726	0.03	<0.5	4.8	0.015	36.0
Target Range - Lower Bound	9.1	0.09	<0.5	<0.01	11.5	<3	0.10	31	<20	666	0.03	<0.5	4.7	<0.005	30.0
Upper Bound	12.3	0.23	1.0	0.02	14.7	6	0.28	47	70	814	0.07	1.0	5.9	0.021	36.8
AMIS0343	6.7	0.12	3860	<0.01	7.1	4	0.14	86	<20	164.5	0.03	<0.5	2.5	0.010	30.8
AMIS0343	6.8	0.15	3870	<0.01	6.7	3	0.14	81	<20	160.5	0.03	<0.5	2.6	0.008	30.8
AMIS0343	6.4	0.12	3670	<0.01	6.7	4	0.15	82	20	171.5	0.03	<0.5	3.7	0.005	32.2
Target Range - Lower Bound	5.1	0.04	3280	<0.01	6.0	<3	<0.04	74	<20	160.0	<0.01	<0.5	2.2	<0.005	27.5
Upper Bound	7.7	0.18	4000	0.03	8.0	8	0.20	97	60	196.0	0.04	1.5	2.9	0.021	33.7
GTA-01	13.3	<0.03	3780	<0.01	<0.3	7	0.08	399	<20	400	0.02	<0.5	3.7	<0.005	25.7
GTA-01	12.1	0.04	3610	<0.01	0.3	3	0.04	397	20	415	0.02	<0.5	4.0	<0.005	28.0
GTA-01	12.8	<0.03	3880	<0.01	<0.3	<3	0.07	400	20	380	<0.01	<0.5	3.4	<0.005	27.3
Target Range - Lower Bound	10.2	<0.03	3310	<0.01	<0.3	<3	<0.04	391	<20	373	<0.01	<0.5	3.3	<0.005	24.3
Upper Bound	13.6	0.09	4040	0.03	1.0	10	0.15	485	70	457	0.04	1.9	4.3	0.010	29.7
OREAS 146	709	507	26.9	0.01	0.4	6	399	47	2860	3.89	38.1	<0.5	829	0.886	0.41
OREAS 146	672	503	26.4	0.01	0.4	3	401	44	2780	3.69	38.2	<0.5	840	0.888	0.42
OREAS 146	738	516	28.4	<0.01	0.5	7	418	53	3030	4.01	39.3	<0.5	863	0.894	0.42
Target Range - Lower Bound	657	493	24.6	<0.01	<0.3	<3	390	38	2770	3.65	37.0	<0.5	805	0.752	0.39
Upper Bound	804	603	31.2	0.03	1.3	9	476	54	3430	4.55	45.2	1.0	985	1.030	0.52
OREAS-77b	54.8	2.74	19.0	0.02	9.9	16	1.84	5	40	0.27	0.20	1.4	6.0	0.065	1.31
OREAS-77b	57.1	2.79	17.5	0.02	8.1	11	1.79	4	30	0.27	0.24	1.6	6.4	0.065	1.31
OREAS-77b	52.2	2.71	19.8	0.12	8.2	6	1.47	3	30	0.32	0.30	1.1	5.6	0.062	1.40
Target Range - Lower Bound	51.7	2.57	16.0	<0.01	7.6	<3	1.45	<3	<20	0.16	0.21	<0.5	5.4	0.049	1.14
Upper Bound	64.3	3.21	20.6	0.05	10.0	12	1.87	10	80	0.34	0.27	2.6	6.9	0.082	1.44
SY-5	63.3	54.9	78.8	<0.01	0.3	4	30.6	4	2960	0.94	2.22	<0.5	23.5	1.065	0.62
SY-5	61.5	51.0	78.0	<0.01	0.5	4	28.0	4	2820	0.92	2.02	<0.5	23.1	1.055	0.63
SY-5	67.0	50.8	75.3	0.01	0.4	6	28.3	4	3000	0.94	2.16	<0.5	25.8	1.065	0.60
Target Range - Lower Bound	58.8	49.7	68.7		<0.3		28.0	<3	2770	0.91	2.02	<0.5	22.6	1.525	0.53
Upper Bound	73.0	60.9	85.1		1.2		34.3	9	3430	1.21	2.50	1.0	27.8	2.08	0.70



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Sample Description	Method Analyte Units LOD	ME-MS89L Tm ppm 0.01	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10
STANDARDS								
AMIS0341		0.02	12.2	6	5.4	2.0	0.16	100
AMIS0341		0.02	11.7	6	5.0	1.7	0.09	100
AMIS0341		0.01	12.2	5	5.5	1.7	0.10	110
Target Range - Lower Bound		<0.01	11.3	3	3.7	1.2	0.07	<10
Upper Bound		0.04	14.3	7	5.3	2.2	0.17	20
AMIS0343		0.02	5.8	7	3.9	1.1	0.08	80
AMIS0343		0.02	5.7	6	3.7	1.3	0.07	80
AMIS0343		0.01	6.5	6	3.3	1.3	0.04	80
Target Range - Lower Bound		<0.01	5.1	3	2.7	0.7	<0.02	60
Upper Bound		0.03	6.7	7	4.3	1.7	0.09	100
GTA-01		<0.01	6.1	<1	5.4	0.5	<0.02	60
GTA-01		0.01	5.6	1	5.0	0.6	<0.02	50
GTA-01		<0.01	5.3	<1	5.2	0.3	0.03	60
Target Range - Lower Bound		<0.01	5.0	<1	4.5	0.3	<0.02	50
Upper Bound		0.03	6.6	4	6.2	1.2	0.06	90
OREAS 146		9.05	2.4	158	26.7	882	50.9	1440
OREAS 146		9.14	2.3	150	25.8	822	46.9	1380
OREAS 146		9.03	2.4	165	25.9	901	48.9	1490
Target Range - Lower Bound		8.45	1.9	144	24.2	814	47.1	1360
Upper Bound		10.35	2.9	178	30.2	996	57.7	1680
OREAS-77b		0.11	1.6	37	3.1	7.7	0.71	230
OREAS-77b		0.13	1.7	36	3.2	7.0	0.76	210
OREAS-77b		0.18	1.9	34	3.8	6.8	0.85	190
Target Range - Lower Bound		0.07	1.2	32	2.3	6.3	0.63	170
Upper Bound		0.12	2.2	42	3.8	8.1	0.81	230
SY-5		0.71	4.9	147	0.5	55.1	4.55	140
SY-5		0.68	4.5	144	0.5	50.5	4.05	140
SY-5		0.71	5.0	145	<0.3	55.9	4.05	140
Target Range - Lower Bound		0.64	4.4	118	<0.3	50.5	4.16	100
Upper Bound		0.81	5.8	146	0.6	62.1	5.12	160



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QC CERTIFICATE OF ANALYSIS BU22171725

Method Analyte Units LOD	ME-MS89L															
Sample Description	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe %	
	5	4	2	0.4	0.1	0.1	0.8	0.2	0.5	0.1	20	0.03	0.02	0.03	0.05	
BLANKS																
BLANK	23	<4	<2	<0.4	<0.1	<0.1	1.0	<0.2	0.5	<0.1	<20	<0.03	<0.02	0.05	<0.05	
BLANK	17	<4	<2	<0.4	0.1	<0.1	0.9	<0.2	<0.5	0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	8	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	0.03	0.03	<0.05	
BLANK	8	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	0.03	<0.03	<0.05	
BLANK	12	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	0.8	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	10	<4	4	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	9	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	6	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	11	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	7	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	7	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
BLANK	<5	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
Target Range - Lower Bound	<5	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05	
Upper Bound	10	8	4	0.8	0.2	0.2	1.6	0.4	1.0	0.2	40	0.06	0.04	0.06	0.10	
DUPLICATES																
130414	5	83	278	4.0	1.7	0.7	2.7	62.7	9.4	11.9	140	4.77	2.96	0.95	4.84	
DUP	<5	72	276	4.5	1.6	0.7	2.4	61.1	9.8	11.8	130	4.81	2.72	1.00	4.88	
Target Range - Lower Bound	<5	70	261	3.5	1.5	0.6	1.6	58.6	8.6	11.2	110	4.52	2.68	0.90	4.57	
Upper Bound	10	85	293	5.0	1.8	0.8	3.5	65.2	10.6	12.5	160	5.06	3.00	1.05	5.15	
130514	<5	<4	216	11.1	538	1.7	<0.8	66.5	10.0	41.2	<20	5.30	2.54	0.96	4.50	
DUP	<5	<4	208	10.5	431	1.7	<0.8	65.3	9.4	39.8	<20	5.11	2.54	0.97	4.36	
Target Range - Lower Bound	<5	<4	199	9.6	460	1.5	<0.8	62.4	8.7	38.4	<20	4.91	2.39	0.89	4.16	
Upper Bound	10	8	225	12.0	509	1.9	1.6	69.4	10.7	42.6	40	5.50	2.69	1.04	4.70	
130531	6	32	76	10.6	56.3	2.7	0.8	63.8	6.7	18.3	50	4.95	3.01	0.85	4.60	
DUP	6	27	77	9.1	53.1	2.7	<0.8	61.6	6.3	19.2	40	4.75	2.77	0.94	4.33	
Target Range - Lower Bound	<5	24	71	8.7	51.9	2.5	<0.8	59.4	5.7	17.7	<20	4.58	2.73	0.82	4.19	
Upper Bound	10	35	82	11.0	57.5	2.9	1.6	66.0	7.3	19.8	70	5.12	3.05	0.97	4.74	
ORIGINAL	6	7	276	2.1	0.2	1.6	<0.8	29.0	20.5	2.1	40	2.93	1.85	0.41	5.21	
DUP	<5	6	276	1.8	0.3	1.6	<0.8	30.1	20.4	2.1	40	3.01	1.86	0.45	5.12	
Target Range - Lower Bound	<5	<4	260	1.4	<0.1	1.4	<0.8	27.9	18.9	1.9	<20	2.79	1.74	0.38	4.86	
Upper Bound	10	8	292	2.5	0.4	1.8	1.6	31.2	22.0	2.3	60	3.15	1.97	0.48	5.47	



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 Finalized Date: 19-SEP-2022
 Account: ROCMINTAS

Project: Elementos

QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method Analyte Units LOD	ME-MS89L														
		Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	0.01	10	2	0.8	0.07	10
BLANKS																
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	3	7.6	<0.07	20
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	2	3.8	<0.07	20
BLANK		<0.5	0.05	<0.5	0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	4	1.1	0.07	20
BLANK		<0.5	<0.03	<0.5	0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	4	1.3	<0.07	20
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	5	3.6	<0.07	70
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	4	2.3	<0.07	10
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	<2	<0.8	<0.07	<10
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	10	<2	<0.8	<0.07	30
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	10	3	3.1	<0.07	10
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	10	2	1.0	<0.07	10
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	2	3.0	<0.07	10
BLANK		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<0.01	<10	<2	1.5	<0.07	10
Target Range - Lower Bound		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05		<10	<2	<0.8	<0.07	<10
Upper Bound		1.0	0.06	1.0	0.02	0.6	0.10	0.16	4	0.10		20	4	1.6	0.14	20
DUPLICATES																
130414		11.2	5.28	1.9	0.92	<0.3	1.46	27.5	62	0.38	0.90	4290	2	10.0	25.5	20
DUP		11.5	5.58	1.9	0.86	<0.3	1.42	27.0	62	0.39	0.90	4280	<2	7.5	25.6	30
Target Range - Lower Bound		10.3	5.13	1.3	0.84	<0.3	1.32	25.8	57	0.32	0.85	4060	<2	7.5	24.2	<10
Upper Bound		12.4	5.73	2.5	0.94	0.6	1.56	28.7	67	0.45	0.96	4510	4	10.0	26.9	40
130514		24.9	5.44	2.8	1.01	<0.3	2.77	31.8	122	0.38	1.31	1280	201	9.7	29.7	10
DUP		24.2	5.45	3.1	0.86	<0.3	2.81	31.1	121	0.33	1.33	1240	190	9.8	29.9	30
Target Range - Lower Bound		22.8	5.14	2.3	0.88	<0.3	2.60	29.8	113	0.29	1.24	1190	184	8.5	28.2	<10
Upper Bound		26.3	5.75	3.6	0.99	0.6	2.98	33.1	130	0.42	1.40	1330	207	11.0	31.4	30
130531		34.5	4.99	4.4	0.89	0.8	1.28	30.7	86	0.37	0.95	1730	91	9.9	28.7	30
DUP		33.3	4.70	3.6	0.88	0.8	1.29	30.0	80	0.35	0.94	1670	87	9.9	28.0	20
Target Range - Lower Bound		31.7	4.57	3.3	0.83	0.5	1.17	28.8	77	0.29	0.89	1610	83	8.6	26.9	<10
Upper Bound		36.1	5.12	4.7	0.94	1.1	1.40	31.9	89	0.43	1.00	1800	95	11.2	29.8	40
ORIGINAL		16.2	2.70	1.7	0.57	<0.3	0.97	15.80	18	0.32	1.12	810	4	24.5	12.50	70
DUP		17.5	2.80	2.2	0.61	<0.3	0.96	16.25	18	0.38	1.12	780	3	22.7	12.20	70
Target Range - Lower Bound		15.5	2.58	1.4	0.55	<0.3	0.87	15.15	15	0.28	1.05	750	<2	21.6	11.65	60
Upper Bound		18.2	2.92	2.5	0.63	0.6	1.06	16.90	21	0.42	1.19	840	4	25.6	13.05	80



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Project: Elementos

QC CERTIFICATE OF ANALYSIS BU22171725

Method Analyte Units LOD	ME-MS89L Pb ppm 0.5	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02
BLANKS															
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	19	<20	0.05	<0.01	<0.5	<0.1	0.007	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	39	<0.04	14	<20	<0.04	<0.01	<0.5	<0.1	0.006	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	3	<20	<0.04	0.01	<0.5	<0.1	<0.005	0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	4	<20	<0.04	0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	9	<20	<0.04	<0.01	<0.5	<0.1	0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	5	<20	0.07	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	80	<0.04	<3	<20	0.11	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	72	<0.04	<3	<20	0.05	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	0.01	<0.3	60	<0.04	9	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	70	<0.04	5	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	5	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02
BLANK	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	<3	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02
Target Range - Lower Bound	<0.5	<0.03	<0.5	<0.01	<0.3	<3	<0.04	<3	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02
Upper Bound	1.0	0.06	1.0	0.02	0.6	6	0.08	6	40	0.08	0.02	1.0	0.2	0.010	0.04
DUPLICATES															
130414	217	7.39	137.5	<0.01	3.0	8	4.82	29	20	0.68	0.82	<0.5	10.8	0.281	0.99
DUP	218	7.07	137.0	<0.01	2.8	8	5.50	25	20	0.69	0.76	<0.5	11.0	0.273	1.01
Target Range - Lower Bound	206	6.84	130.0	<0.01	2.5	5	4.86	23	<20	0.61	0.74	<0.5	10.3	0.251	0.93
Upper Bound	229	7.62	144.5	0.02	3.3	11	5.46	31	40	0.76	0.84	1.0	11.5	0.303	1.07
130514	11.4	7.82	854	0.02	2.8	6	6.24	50	20	0.67	0.82	0.8	11.9	0.331	7.24
DUP	10.7	7.69	828	0.01	2.8	13	6.10	44	20	0.71	0.79	<0.5	11.7	0.337	7.13
Target Range - Lower Bound	10.0	7.34	798	<0.01	2.4	6	5.82	42	<20	0.62	0.75	<0.5	11.1	0.304	6.81
Upper Bound	12.1	8.17	884	0.02	3.2	13	6.52	52	40	0.76	0.86	1.0	12.5	0.364	7.56
130531	28.4	7.93	380	0.02	1.9	5	5.94	188	40	0.66	0.79	<0.5	10.9	0.320	3.01
DUP	27.0	7.51	377	0.01	2.1	3	5.64	214	40	0.68	0.74	<0.5	10.9	0.318	2.74
Target Range - Lower Bound	25.8	7.30	359	<0.01	1.6	<3	5.46	188	<20	0.60	0.72	<0.5	10.3	0.290	2.71
Upper Bound	29.6	8.14	398	0.02	2.4	6	6.12	214	60	0.74	0.81	1.0	11.5	0.348	3.04
ORIGINAL	12.8	3.09	82.3	0.01	0.6	<3	2.76	9	40	3.47	0.37	<0.5	12.7	0.573	0.53
DUP	12.6	3.42	83.3	<0.01	0.7	<3	2.41	7	40	3.30	0.42	<0.5	13.1	0.571	0.51
Target Range - Lower Bound	11.6	3.06	78.2	<0.01	<0.3	<3	2.42	5	<20	3.18	0.37	<0.5	12.2	0.524	0.47
Upper Bound	13.8	3.45	87.4	0.02	1.0	6	2.75	11	60	3.59	0.42	1.0	13.6	0.620	0.57



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 Finalized Date: 19-SEP-2022
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Project: Elementos

QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method Analyte Units LOD	ME-MS89L Tm ppm	ME-MS89L U ppm	ME-MS89L V ppm	ME-MS89L W ppm	ME-MS89L Y ppm	ME-MS89L Yb ppm	ME-MS89L Zn ppm
		0.01	0.2	1	0.3	0.2	0.02	10
BLANKS								
BLANK		<0.01	<0.2	1	0.5	0.4	<0.02	<10
BLANK		<0.01	<0.2	<1	0.4	0.3	<0.02	<10
BLANK		0.01	<0.2	1	<0.3	0.2	<0.02	<10
BLANK		0.02	<0.2	1	<0.3	<0.2	0.02	<10
BLANK		<0.01	<0.2	1	0.3	<0.2	<0.02	<10
BLANK		<0.01	<0.2	1	<0.3	<0.2	<0.02	<10
BLANK		<0.01	0.2	1	<0.3	<0.2	<0.02	10
BLANK		<0.01	0.2	1	<0.3	<0.2	<0.02	10
BLANK		0.01	<0.2	<1	<0.3	<0.2	<0.02	<10
BLANK		<0.01	<0.2	<1	<0.3	<0.2	<0.02	<10
BLANK		<0.01	<0.2	<1	<0.3	<0.2	<0.02	10
BLANK		<0.01	<0.2	<1	0.3	<0.2	<0.02	<10
Target Range - Lower Bound		<0.01	<0.2	<1	<0.3	<0.2	<0.02	<10
Upper Bound		0.02	0.4	2	0.6	0.4	0.04	20
DUPLICATES								
130414		0.37	1.8	113	3.7	27.2	2.53	660
DUP		0.39	1.8	110	3.8	25.7	2.88	630
Target Range - Lower Bound		0.35	1.5	105	3.3	24.9	2.55	600
Upper Bound		0.41	2.1	118	4.2	28.0	2.86	690
130514		0.39	12.1	74	642	26.7	2.66	130
DUP		0.39	12.5	73	587	26.1	2.26	120
Target Range - Lower Bound		0.36	11.5	69	583	24.9	2.32	110
Upper Bound		0.42	13.1	78	646	27.9	2.60	140
130531		0.43	3.4	63	570	25.2	2.76	180
DUP		0.39	3.2	62	555	24.0	2.38	180
Target Range - Lower Bound		0.38	2.9	58	534	23.2	2.42	160
Upper Bound		0.44	3.7	67	591	26.0	2.72	200
ORIGINAL		0.29	1.8	159	6.0	17.7	2.04	60
DUP		0.29	1.9	157	6.1	18.0	2.17	50
Target Range - Lower Bound		0.27	1.6	149	5.4	16.8	1.98	40
Upper Bound		0.31	2.1	167	6.7	18.9	2.23	70



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QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method	Analyte	Units	LOD	ME-MS89L														
					Ag	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Fe
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					5	4	2	0.4	0.1	0.1	0.8	0.2	0.5	0.1	20	0.03	0.02	0.03	0.05
DUPLICATES																			
ORIGINAL					<5	<4	735	0.6	0.2	0.9	<0.8	132.0	4.7	0.4	<20	2.59	1.12	1.36	1.96
DUP					<5	<4	720	0.7	0.1	1.0	<0.8	128.0	4.4	0.4	<20	2.52	1.04	1.27	1.86
Target Range - Lower Bound					<5	<4	689	<0.4	<0.1	0.8	<0.8	123.5	3.8	0.3	<20	2.40	1.01	1.22	1.76
Upper Bound					10	8	766	0.8	0.2	1.1	1.6	136.5	5.3	0.5	40	2.71	1.15	1.41	2.06

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



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 Account: ROCMINTAS

Project: Elementos

QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method	Analyte	Units	LOD	ME-MS89L														
					Ga	Gd	Ge	Ho	In	K	La	Li	Lu	Mg	Mn	Mo	Nb	Nd	Ni
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
					0.5	0.03	0.5	0.01	0.3	0.05	0.08	2	0.05	0.01	10	2	0.8	0.07	10
DUPLICATES																			
ORIGINAL					16.6	4.14	0.9	0.41	<0.3	4.74	74.1	13	0.10	0.46	230	3	5.9	45.9	40
DUP					15.8	4.32	1.0	0.37	<0.3	4.55	72.3	11	0.10	0.44	220	3	5.2	46.2	10
Target Range - Lower Bound					14.9	3.99	<0.5	0.36	<0.3	4.36	69.5	9	<0.05	0.42	200	<2	4.5	43.7	<10
Upper Bound					17.5	4.47	1.0	0.42	0.6	4.93	76.9	15	0.16	0.48	250	4	6.6	48.4	40

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QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method	Analyte	Units	LOD	ME-MS89L														
					Pb	Pr	Rb	Re	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
					ppm	ppm	%	ppm											
					0.5	0.03	0.5	0.01	0.3	3	0.04	3	20	0.04	0.01	0.5	0.1	0.005	0.02
DUPLICATES																			
ORIGINAL					19.3	14.05	116.0	<0.01	<0.3	<3	6.51	<3	310	0.36	0.47	<0.5	12.4	0.261	0.46
DUP					18.4	13.80	110.0	<0.01	<0.3	<3	6.13	<3	310	0.30	0.48	<0.5	12.0	0.250	0.41
Target Range - Lower Bound					17.4	13.20	107.0	<0.01	<0.3	<3	5.96	<3	270	0.27	0.44	<0.5	11.5	0.231	0.39
Upper Bound					20.3	14.65	119.0	0.02	0.6	6	6.68	6	350	0.39	0.51	1.0	12.9	0.280	0.48

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QC CERTIFICATE OF ANALYSIS BU22171725

Sample Description	Method Analyte Units LOD	ME-MS89L Tm ppm 0.01	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10
		DUPLICATES						
ORIGINAL		0.11	0.4	36	0.3	11.7	0.89	30
DUP		0.13	0.4	35	0.3	11.3	0.67	30
Target Range - Lower Bound		0.10	<0.2	33	<0.3	10.7	0.72	20
Upper Bound		0.14	0.6	38	0.6	12.3	0.84	40

