



Australian Laboratory Services Pty. Ltd.

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ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
No: 825, Corporate Site No: 818.

To: TINONE RESOURCES AUSTRALIA PTY LTD  
31 BENNETTS ROAD  
CAMP HILL QLD 4152

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Total # Pages: 6 (A - D)  
Plus Appendix Pages  
Finalized Date: 2-JUN-2022  
This copy reported on 7-JUN-2022  
Account: TINONEAUS

**QC CERTIFICATE BU22052100**

Project: Panama Project 1-3-22

This report is for 170 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 1-MAR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>STANDARDS</b>																
EMOG-17			67.8	4.67	591	770	1.76	5.44	1.93	20.3	46.7	752	55	7.27	8340	4.92
EMOG-17			70.4	4.78	602	830	1.81	5.68	1.97	20.3	46.5	764	54	7.34	8420	5.00
EMOG-17			64.6	4.52	568	180	1.60	5.57	1.90	19.50	46.9	730	54	6.85	8140	4.74
EMOG-17			66.3	4.54	579	620	1.69	5.56	1.91	19.70	45.0	758	55	7.12	8160	4.77
Target Range - Lower Bound			60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound			74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GBM321-8			2.92	7.24	56.9	1120	1.46	1.22	3.90	1.78	108.5	25.6	142	3.98	3610	5.65
GBM321-8			2.96	7.17	60.8	1110	1.44	1.23	3.77	1.81	112.5	27.0	142	4.04	3610	5.55
GBM321-8			2.80	7.03	57.5	1080	1.46	1.24	3.73	1.65	107.5	26.0	133	4.06	3510	5.43
GBM321-8			2.58	6.41	50.4	990	1.40	1.08	3.41	1.64	98.7	21.8	129	3.51	3280	5.04
Target Range - Lower Bound			2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380	4.98
Upper Bound			3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890	6.10
GLG313-1		0.031														
GLG313-1		0.030														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.55														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MRGeo08			4.61	7.81	35.4	1110	3.50	0.66	2.74	2.35	75.9	20.0	94	13.10	628	4.02
MRGeo08			4.39	7.79	35.1	1120	3.26	0.64	2.68	2.31	78.3	20.1	94	12.05	631	4.03
MRGeo08			4.26	7.83	35.4	1100	3.03	0.67	2.70	2.26	79.5	20.0	94	12.50	616	3.99
MRGeo08			4.43	7.40	33.9	1090	3.35	0.66	2.66	2.27	69.7	18.4	92	12.15	633	3.94
Target Range - Lower Bound			3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55
Upper Bound			4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37
OREAS 152a			0.68	7.17	32.9	80	0.41	0.12	1.52	0.21	7.53	11.2	18	0.54	3860	3.60
OREAS 152a			0.72	7.36	33.4	80	0.49	0.15	1.53	0.21	8.31	11.0	18	0.57	3870	3.67
OREAS 152a			0.68	7.63	33.3	80	0.44	0.13	1.49	0.20	9.07	11.1	17	0.59	3740	3.54
OREAS 152a			0.67	9.43	34.7	80	0.42	0.12	1.71	0.22	7.81	11.2	18	0.53	3830	3.87
Target Range - Lower Bound			0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610	3.37
Upper Bound			0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150	4.14
OREAS 237		2.38														
OREAS 237		2.28														
OREAS 237		2.25														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.250														



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 Account: TINONEAUS

Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>STANDARDS</b>																
EMOG-17		12.55	0.62	1.7	0.893	1.64	22.0	25.2	0.96	731	1080	1.12	13.8	7690	820	7300
EMOG-17		12.70	0.43	2.0	0.853	1.67	23.9	25.8	0.98	734	1090	1.15	14.4	7830	830	7410
EMOG-17		12.00	0.15	1.8	0.865	1.60	23.1	24.6	0.92	714	1035	1.07	14.4	7310	780	6900
EMOG-17		12.20	0.14	1.8	0.893	1.63	23.1	26.4	0.93	718	1090	1.10	14.2	7440	810	7200
Target Range - Lower Bound		10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570
Upper Bound		13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030
GBM321-8		21.7	0.61	4.0	0.083	2.12	57.2	10.8	1.87	802	61.1	2.21	10.1	2300	990	2060
GBM321-8		22.9	0.48	4.0	0.072	2.14	56.4	10.7	1.84	812	62.0	2.18	10.9	2240	990	2040
GBM321-8		22.2	0.54	4.0	0.077	2.07	56.0	10.8	1.81	778	62.1	2.17	10.2	2210	960	1995
GBM321-8		18.85	0.48	3.4	0.062	1.88	51.2	9.8	1.64	711	56.2	1.96	9.4	2060	860	1860
Target Range - Lower Bound		18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020		1845
Upper Bound		22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480		2250
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		19.95	0.32	3.2	0.170	3.19	37.0	33.5	1.37	559	15.55	2.05	21.0	718	1070	1100
MRGeo08		19.05	0.33	3.3	0.163	3.21	38.9	30.5	1.39	573	14.95	2.02	21.2	713	1060	1105
MRGeo08		19.15	0.55	3.4	0.167	3.13	40.8	31.0	1.38	555	15.10	2.02	20.1	705	1060	1080
MRGeo08		19.65	0.36	3.4	0.172	3.10	32.8	33.1	1.33	555	14.90	1.99	21.3	711	1040	1085
Target Range - Lower Bound		17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971
Upper Bound		21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185
OREAS 152a		17.20	0.37	0.1	0.022	1.36	2.8	5.6	2.04	288	77.7	2.30	0.9	10.9	620	5.2
OREAS 152a		18.30	0.30	0.1	0.027	1.39	3.3	6.3	2.09	290	81.6	2.32	0.9	11.3	630	6.1
OREAS 152a		18.05	0.21	0.1	0.026	1.36	3.4	6.6	1.99	275	78.6	2.21	0.9	10.0	590	5.4
OREAS 152a		17.95	0.07	<0.1	0.018	1.48	3.0	6.1	2.22	290	79.3	2.33	0.8	10.6	630	5.5
Target Range - Lower Bound		16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550	5.0
Upper Bound		20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690	7.7
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>STANDARDS</b>																
EMOG-17		106.0	0.301	3.26	793	8.0	6	2.5	208	0.86	1.30	10.80	0.324	2.05	3.2	72
EMOG-17		110.5	0.314	3.30	799	7.9	7	2.5	214	0.98	1.36	10.90	0.326	2.12	3.1	72
EMOG-17		104.0	0.304	3.13	726	7.6	6	2.4	200	0.88	1.30	11.10	0.313	2.13	3.1	70
EMOG-17		110.5	0.311	3.18	784	7.4	7	2.6	203	0.85	1.34	10.45	0.319	2.17	2.9	71
Target Range - Lower Bound		98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67
Upper Bound		121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84
GBM321-8		166.5	<0.002	0.43	1.61	19.3	1	3.0	296	0.76	0.06	17.25	0.672	1.29	2.3	141
GBM321-8		174.5	<0.002	0.41	1.73	19.0	1	3.2	289	0.79	0.08	18.50	0.661	1.26	2.4	142
GBM321-8		164.0	<0.002	0.40	1.55	18.4	1	3.0	289	0.78	0.06	17.45	0.647	1.26	2.3	137
GBM321-8		149.5	<0.002	0.36	1.50	16.6	1	2.9	261	0.61	0.07	16.80	0.596	1.11	2.0	123
Target Range - Lower Bound		153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0	123
Upper Bound		187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6	153
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		195.5	0.009	0.31	4.60	12.5	1	4.1	314	1.55	<0.05	20.3	0.510	1.10	5.5	111
MRGeo08		225	0.011	0.31	4.40	11.8	1	3.9	312	1.48	<0.05	21.0	0.505	1.04	5.7	111
MRGeo08		213	0.008	0.31	4.44	11.8	1	3.9	309	1.53	<0.05	20.6	0.500	1.02	5.6	108
MRGeo08		173.0	0.006	0.30	4.68	12.0	1	4.1	304	1.50	0.05	19.05	0.506	1.12	5.3	111
Target Range - Lower Bound		173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97
Upper Bound		212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121
OREAS 152a		15.6	0.276	0.90	1.46	17.6	7	1.4	111.0	0.05	0.17	0.20	0.327	0.19	0.1	297
OREAS 152a		18.2	0.311	0.91	1.50	19.6	8	1.4	111.5	0.06	0.19	0.26	0.321	0.22	0.1	306
OREAS 152a		21.4	0.283	0.86	1.42	21.2	7	1.4	113.5	0.10	0.15	0.25	0.308	0.21	0.1	291
OREAS 152a		18.0	0.286	0.91	1.43	18.0	8	1.4	116.0	0.06	0.19	0.21	0.378	0.18	0.1	300
Target Range - Lower Bound		19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1	269
Upper Bound		24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3	331
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	0.1	2	0.5
<b>STANDARDS</b>					
EMOG-17		3.7	15.4	7600	62.1
EMOG-17		4.1	15.5	7580	66.5
EMOG-17		3.7	15.2	7290	66.6
EMOG-17		3.7	15.6	7350	63.6
Target Range - Lower Bound		3.3	14.3	6800	55.6
Upper Bound		4.7	17.7	8320	76.4
GBM321-8		3.4	36.6	1055	140.5
GBM321-8		3.9	38.4	1075	140.0
GBM321-8		3.3	35.5	1030	146.0
GBM321-8		3.3	32.2	954	128.0
Target Range - Lower Bound		2.9	35.2	961	117.5
Upper Bound		4.1	43.2	1180	160.5
GLG313-1					
GLG313-1					
Target Range - Lower Bound					
Upper Bound					
KIP-19					
Target Range - Lower Bound					
Upper Bound					
MGeo08		5.6	26.5	801	112.0
MGeo08		4.9	28.0	819	108.5
MGeo08		4.7	26.5	795	114.0
MGeo08		4.9	23.9	811	108.5
Target Range - Lower Bound		4.1	23.8	722	92.2
Upper Bound		5.8	29.3	886	126.0
OREAS 152a		3.6	8.6	84	1.5
OREAS 152a		4.1	8.9	86	1.6
OREAS 152a		3.6	9.8	81	1.5
OREAS 152a		3.8	9.3	85	2.2
Target Range - Lower Bound		3.4	9.7	76	0.8
Upper Bound		4.8	12.1	98	3.2
OREAS 237					
OREAS 237					
OREAS 237					
Target Range - Lower Bound					
Upper Bound					
OREAS 253					



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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>STANDARDS</b>																
OREAS 253		1.210														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
TAZ-20		0.322														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.3	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.3	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2	<0.01
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02

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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		0.05	0.08	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.3	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.3	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10	<0.5
Target Range - Lower Bound		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0

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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	0.2	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2

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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
ORIGINAL			0.06	6.84	10.4	350	1.76	0.31	3.58	0.12	49.4	10.5	27	15.95	32.0	5.66
DUP			0.05	6.87	10.0	350	1.76	0.28	3.61	0.10	48.7	10.4	26	15.45	32.2	5.66
Target Range - Lower Bound			0.04	6.50	9.5	310	1.62	0.27	3.41	0.08	46.6	9.8	24	14.85	30.8	5.37
Upper Bound			0.07	7.21	10.9	390	1.90	0.32	3.78	0.14	51.5	11.1	29	16.55	33.4	5.95
ORIGINAL			0.18	6.35	3.0	330	1.00	0.09	5.23	0.08	23.5	41.5	216	3.65	420	8.27
DUP			0.17	6.20	3.1	320	0.93	0.09	5.11	0.07	22.9	40.7	208	3.63	413	8.07
Target Range - Lower Bound			0.16	5.95	2.7	290	0.87	0.08	4.90	0.05	22.0	38.9	200	3.41	402	7.75
Upper Bound			0.19	6.60	3.4	360	1.06	0.10	5.44	0.10	24.4	43.3	224	3.87	431	8.59
ORIGINAL		0.007														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000006		0.043														
DUP		0.049														
Target Range - Lower Bound		0.039														
Upper Bound		0.053														
TRD000011			0.09	7.87	13.6	730	2.45	0.41	0.01	<0.02	23.7	2.7	86	3.26	25.6	4.46
DUP			0.09	7.76	13.2	710	2.28	0.42	0.01	<0.02	23.9	2.8	84	3.08	24.8	4.37
Target Range - Lower Bound			0.08	7.41	12.5	660	2.20	0.38	<0.01	<0.02	22.6	2.5	80	2.96	24.1	4.18
Upper Bound			0.10	8.22	14.3	780	2.53	0.45	0.02	0.04	25.0	3.0	90	3.38	26.3	4.65
TRD000026		0.012														
DUP		0.011														
Target Range - Lower Bound		0.006														
Upper Bound		0.017														
TRD000031			0.03	4.35	6.5	320	1.32	0.12	0.01	<0.02	67.7	1.4	53	2.57	10.6	2.45
DUP			0.03	4.56	6.7	330	1.30	0.12	0.01	<0.02	68.4	1.4	52	2.70	10.7	2.54
Target Range - Lower Bound			0.02	4.22	6.1	290	1.19	0.10	<0.01	<0.02	64.6	1.2	49	2.45	10.1	2.36
Upper Bound			0.04	4.69	7.1	360	1.43	0.14	0.02	0.04	71.5	1.6	56	2.82	11.2	2.63
TRD000046		<0.005	0.09	7.79	12.8	610	2.62	0.48	0.01	0.17	116.5	19.8	65	8.03	37.4	3.44
DUP		<0.005	0.10	8.06	17.3	620	2.83	0.50	0.01	0.15	118.5	19.1	68	8.40	36.3	3.52
Target Range - Lower Bound		<0.005	0.08	7.52	14.1	560	2.54	0.46	<0.01	0.13	111.5	18.4	62	7.75	35.4	3.30
Upper Bound		0.010	0.11	8.33	16.0	670	2.91	0.52	0.02	0.19	123.5	20.5	71	8.68	38.3	3.66



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**QC CERTIFICATE OF ANALYSIS BU22052100**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
ORIGINAL		16.20	0.39	2.7	0.056	1.16	22.1	37.2	0.51	2230	0.89	0.61	6.1	13.8	>10000	13.4
DUP		16.05	0.72	2.6	0.048	1.17	21.3	38.7	0.51	2240	0.86	0.61	6.1	13.4	>10000	13.0
Target Range - Lower Bound		15.25	0.46	2.4	0.044	1.10	20.1	35.9	0.47	2120	0.78	0.57	5.7	12.7	9490	12.0
Upper Bound		17.00	0.65	2.9	0.060	1.23	23.3	40.0	0.55	2350	0.97	0.65	6.5	14.5	>10000	14.4
ORIGINAL		16.85	0.85	1.3	0.079	2.10	10.8	31.4	5.96	988	0.65	2.48	2.7	92.7	1870	6.6
DUP		16.75	0.74	1.1	0.075	2.08	10.4	30.2	5.76	961	0.55	2.42	2.7	82.0	1830	6.5
Target Range - Lower Bound		15.90	0.69	1.0	0.068	1.98	9.6	29.1	5.56	921	0.52	2.32	2.5	82.8	1750	5.7
Upper Bound		17.70	0.90	1.4	0.086	2.20	11.6	32.5	6.16	1030	0.68	2.58	2.9	91.9	1950	7.4
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000006																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000011		20.9	0.68	3.3	0.072	2.55	11.1	9.6	0.22	106	0.27	0.10	14.9	11.5	390	23.1
DUP		19.25	0.50	3.2	0.068	2.53	11.6	9.0	0.21	107	0.27	0.10	14.5	11.6	400	22.2
Target Range - Lower Bound		19.00	0.50	3.0	0.062	2.40	10.3	8.6	0.19	96	0.21	0.09	13.9	10.8	370	21.0
Upper Bound		21.1	0.68	3.5	0.079	2.68	12.4	10.0	0.24	117	0.33	0.12	15.5	12.3	420	24.3
TRD000026																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000031		10.80	0.18	3.2	0.038	1.21	32.8	5.8	0.16	93	0.72	0.05	9.5	9.3	510	7.8
DUP		11.20	0.38	3.2	0.034	1.26	32.5	6.0	0.16	99	0.72	0.05	9.7	8.0	530	8.1
Target Range - Lower Bound		10.40	0.21	2.9	0.029	1.16	30.5	5.4	0.14	86	0.63	0.04	9.0	8.0	480	7.1
Upper Bound		11.60	0.35	3.5	0.043	1.31	34.8	6.4	0.18	106	0.81	0.06	10.2	9.3	560	8.8
TRD000046		21.5	0.44	3.6	0.069	2.76	61.6	35.4	1.11	741	1.37	0.12	15.5	42.8	140	25.1
DUP		23.0	0.60	3.9	0.072	2.83	63.2	36.5	1.14	723	1.34	0.13	15.4	40.4	150	26.1
Target Range - Lower Bound		21.1	0.43	3.5	0.062	2.65	58.8	34.0	1.06	690	1.24	0.11	14.6	39.3	130	23.8
Upper Bound		23.4	0.61	4.0	0.079	2.94	66.0	37.9	1.19	774	1.47	0.14	16.3	43.9	160	27.4



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
<b>DUPLICATES</b>																
ORIGINAL		70.8	0.002	0.34	0.91	16.0	1	1.5	130.5	0.45	0.09	7.30	0.301	0.44	1.4	167
DUP		71.1	0.002	0.35	1.00	14.8	1	1.5	131.0	0.45	0.09	7.07	0.301	0.40	1.4	170
Target Range - Lower Bound		67.3	<0.002	0.32	0.83	14.5	<1	1.2	124.0	0.38	<0.05	6.82	0.281	0.37	1.2	159
Upper Bound		74.6	0.004	0.37	1.08	16.3	2	1.8	137.5	0.52	0.10	7.55	0.321	0.47	1.6	178
ORIGINAL		74.6	0.003	0.04	0.47	34.1	<1	1.0	455	0.16	0.05	1.58	0.403	0.18	0.5	285
DUP		75.3	0.002	0.04	0.48	32.9	1	0.9	442	0.15	0.06	1.56	0.395	0.20	0.5	275
Target Range - Lower Bound		71.1	<0.002	0.03	0.39	31.7	<1	0.7	426	0.10	<0.05	1.48	0.374	0.16	0.4	265
Upper Bound		78.8	0.004	0.05	0.56	35.3	2	1.2	471	0.21	0.10	1.66	0.424	0.22	0.6	295
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000006																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000011		104.0	<0.002	0.03	1.13	18.9	1	4.1	40.1	1.13	0.06	19.50	0.426	0.47	3.6	92
DUP		104.5	<0.002	0.03	1.15	17.6	<1	4.1	39.5	1.04	<0.05	19.65	0.412	0.45	3.5	87
Target Range - Lower Bound		98.9	<0.002	0.02	1.00	17.2	<1	3.7	37.6	0.98	<0.05	18.60	0.393	0.41	3.3	84
Upper Bound		109.5	0.004	0.04	1.28	19.3	2	4.5	42.0	1.19	0.10	20.6	0.445	0.51	3.8	95
TRD000026																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000031		65.1	<0.002	0.02	0.66	11.4	<1	2.2	27.4	0.78	<0.05	12.20	0.280	0.31	2.9	44
DUP		67.6	<0.002	0.02	0.66	11.2	1	2.2	28.1	0.79	<0.05	12.25	0.293	0.31	2.9	45
Target Range - Lower Bound		62.9	<0.002	<0.01	0.56	10.6	<1	1.9	26.2	0.70	<0.05	11.60	0.267	0.27	2.7	41
Upper Bound		69.8	0.004	0.03	0.76	12.0	2	2.5	29.3	0.87	0.10	12.85	0.306	0.35	3.1	48
TRD000046		158.5	0.002	0.27	1.84	14.0	1	4.0	43.4	1.31	0.06	19.10	0.420	0.98	3.7	108
DUP		155.5	0.003	0.28	1.82	15.2	1	4.0	43.0	1.37	0.06	19.85	0.431	1.01	3.8	111
Target Range - Lower Bound		149.0	<0.002	0.25	1.64	13.8	<1	3.6	40.8	1.22	<0.05	18.50	0.399	0.90	3.5	103
Upper Bound		165.0	0.004	0.30	2.02	15.4	2	4.4	45.6	1.46	0.10	20.5	0.452	1.09	4.0	116



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>DUPLICATES</b>					
ORIGINAL		1.2	27.6	67	97.3
DUP		1.1	27.6	68	102.0
Target Range - Lower Bound		1.0	26.1	62	91.7
Upper Bound		1.3	29.1	73	107.5
ORIGINAL		1.0	12.6	51	33.8
DUP		1.0	12.6	50	32.4
Target Range - Lower Bound		0.8	11.9	46	30.1
Upper Bound		1.2	13.3	55	36.1
ORIGINAL					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000006					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000011		3.3	9.1	41	127.5
DUP		3.1	10.2	40	125.0
Target Range - Lower Bound		2.9	9.1	36	116.5
Upper Bound		3.5	10.2	45	136.0
TRD000026					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000031		2.8	10.6	27	105.5
DUP		2.8	11.0	26	107.0
Target Range - Lower Bound		2.5	10.2	23	97.8
Upper Bound		3.1	11.4	30	114.5
TRD000046		2.8	45.8	118	127.0
DUP		3.1	44.4	120	127.0
Target Range - Lower Bound		2.6	42.7	111	117.0
Upper Bound		3.3	47.5	127	137.0



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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000065			0.07	7.88	29.3	500	2.89	0.59	0.12	0.10	90.5	19.0	64	10.35	44.2	3.76
DUP			0.07	7.84	28.6	500	2.69	0.53	0.12	0.12	80.4	18.8	66	9.90	44.8	3.77
Target Range - Lower Bound			0.06	7.46	27.3	450	2.60	0.52	0.10	0.08	81.2	17.9	61	9.57	42.7	3.57
Upper Bound			0.08	8.26	30.6	550	2.98	0.60	0.14	0.14	89.7	19.9	69	10.70	46.3	3.96
TRD000080			0.03	7.80	14.4	530	2.82	0.31	0.12	0.02	98.9	13.4	68	9.55	37.8	4.44
DUP			0.03	8.15	15.6	550	2.65	0.30	0.12	0.02	96.3	13.8	68	9.04	34.0	4.59
Target Range - Lower Bound			0.02	7.57	14.1	490	2.55	0.28	0.10	<0.02	92.7	12.8	64	8.78	34.4	4.28
Upper Bound			0.04	8.38	16.0	590	2.92	0.33	0.14	0.04	102.5	14.4	72	9.81	37.4	4.75
TRD000083			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000100			0.04	8.22	22.9	590	2.47	0.36	0.01	0.05	125.0	25.9	71	6.83	46.2	3.73
DUP			0.04	7.80	22.3	570	2.44	0.39	0.01	0.04	121.0	25.6	67	6.90	45.4	3.66
Target Range - Lower Bound			0.03	7.60	21.3	530	2.28	0.35	<0.01	<0.02	117.0	24.4	65	6.47	44.0	3.50
Upper Bound			0.05	8.42	23.9	630	2.63	0.40	0.02	0.07	129.0	27.1	73	7.26	47.6	3.89
TRD000104			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000115			0.03	8.23	5.7	610	2.49	0.38	0.02	0.03	48.1	12.9	68	8.48	55.5	4.11
DUP			0.03	8.02	5.5	590	2.50	0.40	0.02	0.03	46.3	12.6	66	8.44	53.0	3.96
Target Range - Lower Bound			0.02	7.71	5.1	550	2.32	0.36	<0.01	<0.02	44.8	12.0	63	7.99	52.2	3.82
Upper Bound			0.04	8.54	6.1	660	2.67	0.42	0.03	0.04	49.6	13.5	71	8.93	56.3	4.25
TRD000124			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000161			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000065		22.2	0.31	3.6	0.072	3.00	44.6	45.6	1.51	1015	1.23	0.44	15.2	42.2	530	29.3
DUP		21.0	0.40	3.6	0.069	3.01	39.4	43.9	1.50	1020	1.30	0.44	15.3	42.4	520	27.3
Target Range - Lower Bound		20.5	0.28	3.3	0.062	2.84	39.4	42.3	1.42	962	1.15	0.41	14.4	40.0	490	26.4
Upper Bound		22.7	0.43	3.9	0.079	3.17	44.6	47.2	1.59	1075	1.38	0.47	16.1	44.6	560	30.2
TRD000080		21.8	0.50	3.5	0.065	2.89	50.0	49.4	1.51	1060	1.08	0.49	14.9	36.8	500	16.0
DUP		21.1	0.44	3.3	0.071	2.98	48.0	47.4	1.58	1095	1.09	0.52	14.9	37.6	540	15.5
Target Range - Lower Bound		20.3	0.38	3.1	0.060	2.78	46.1	45.8	1.46	1020	0.98	0.47	14.1	35.1	480	14.5
Upper Bound		22.6	0.56	3.7	0.076	3.09	52.0	51.0	1.63	1135	1.19	0.54	15.7	39.3	560	17.0
TRD000083																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000100		21.2	0.25	3.6	0.075	2.74	43.2	23.5	0.50	690	2.61	0.11	16.0	25.4	120	16.6
DUP		21.4	0.31	3.6	0.071	2.66	43.0	22.9	0.48	670	2.63	0.11	15.9	25.0	110	17.4
Target Range - Lower Bound		20.2	0.21	3.3	0.064	2.56	40.4	21.8	0.46	641	2.44	0.09	15.1	23.7	100	15.7
Upper Bound		22.4	0.35	3.9	0.082	2.85	45.8	24.6	0.52	719	2.80	0.13	16.8	26.7	130	18.4
TRD000104																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000115		20.7	0.33	3.3	0.071	2.88	34.1	35.2	1.02	669	0.41	0.18	15.6	46.0	80	17.6
DUP		20.7	0.24	3.3	0.079	2.79	34.4	33.7	0.97	643	0.37	0.18	15.4	43.3	80	17.5
Target Range - Lower Bound		19.60	0.21	3.0	0.066	2.68	32.0	32.5	0.94	618	0.32	0.16	14.6	42.2	70	16.2
Upper Bound		21.8	0.36	3.6	0.084	2.99	36.5	36.4	1.05	694	0.46	0.20	16.4	47.1	90	18.9
TRD000124																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000161																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>DUPLICATES</b>																
TRD000065		178.5	0.002	0.42	3.23	14.4	1	4.1	30.3	1.25	0.05	19.40	0.426	1.15	3.8	106
DUP		170.0	<0.002	0.42	3.23	13.2	1	3.9	30.2	1.25	0.05	16.65	0.424	1.09	3.5	106
Target Range - Lower Bound		165.5	<0.002	0.39	2.94	13.0	<1	3.6	28.5	1.14	<0.05	17.10	0.399	1.02	3.4	100
Upper Bound		183.0	0.004	0.45	3.52	14.6	2	4.4	32.0	1.36	0.10	18.95	0.451	1.22	3.9	112
TRD000080		170.0	<0.002	0.16	2.97	14.0	1	3.9	28.9	1.22	<0.05	18.35	0.415	1.10	2.4	88
DUP		175.0	<0.002	0.17	2.96	13.4	1	4.0	29.7	1.18	<0.05	17.45	0.431	1.06	2.3	93
Target Range - Lower Bound		164.0	<0.002	0.15	2.69	12.9	<1	3.6	27.6	1.09	<0.05	17.00	0.397	0.98	2.1	85
Upper Bound		181.0	0.004	0.18	3.24	14.5	2	4.3	31.0	1.31	0.10	18.80	0.449	1.18	2.6	96
TRD000083																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000100		152.5	<0.002	0.03	0.93	14.8	1	3.9	28.3	1.18	0.09	18.80	0.429	0.94	4.0	102
DUP		152.5	<0.002	0.03	0.87	15.0	<1	4.0	28.7	1.22	0.08	19.40	0.423	0.94	4.1	102
Target Range - Lower Bound		145.0	<0.002	0.02	0.78	14.1	<1	3.6	26.9	1.09	<0.05	18.15	0.400	0.85	3.7	96
Upper Bound		160.0	0.004	0.04	1.02	15.7	2	4.3	30.1	1.31	0.10	20.1	0.452	1.03	4.4	108
TRD000104																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000115		171.0	<0.002	0.02	1.04	13.2	<1	4.1	24.1	1.15	<0.05	17.75	0.434	0.80	2.7	92
DUP		169.5	<0.002	0.02	0.99	13.2	<1	3.9	23.7	1.15	<0.05	17.65	0.414	0.77	2.6	92
Target Range - Lower Bound		161.5	<0.002	<0.01	0.89	12.4	<1	3.6	22.5	1.04	<0.05	16.80	0.398	0.71	2.4	86
Upper Bound		179.0	0.004	0.03	1.14	14.0	2	4.4	25.3	1.26	0.10	18.60	0.450	0.86	2.9	98
TRD000124																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000161																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>DUPLICATES</b>					
TRD000065		3.4	23.9	103	119.0
DUP		3.4	23.5	105	122.0
Target Range - Lower Bound		3.0	22.4	97	111.0
Upper Bound		3.8	25.0	111	130.0
TRD000080		3.4	29.8	85	116.5
DUP		3.2	29.3	89	117.5
Target Range - Lower Bound		3.0	28.0	81	107.5
Upper Bound		3.6	31.1	93	126.5
TRD000083					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000100		5.1	28.5	95	122.5
DUP		5.2	29.1	93	124.0
Target Range - Lower Bound		4.7	27.3	87	113.5
Upper Bound		5.6	30.3	101	133.0
TRD000104					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000115		4.4	26.4	130	117.5
DUP		4.4	26.4	126	113.5
Target Range - Lower Bound		4.0	25.0	120	106.5
Upper Bound		4.8	27.8	136	124.5
TRD000124					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000161					
DUP					
Target Range - Lower Bound					
Upper Bound					



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**QC CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000168			0.03	7.92	4.6	500	2.67	0.50	0.15	0.03	96.8	15.3	69	10.45	41.4	3.83
DUP			0.03	7.74	1.9	490	2.69	0.46	0.14	0.03	93.3	15.2	64	10.10	41.4	3.73
Target Range - Lower Bound			0.02	7.43	2.9	450	2.50	0.45	0.13	<0.02	90.3	14.4	62	9.71	39.8	3.58
Upper Bound			0.04	8.23	3.6	540	2.86	0.51	0.16	0.04	99.8	16.1	71	10.85	43.0	3.98
TRD000303			0.15	7.24	8.0	460	2.07	0.38	0.01	0.17	89.5	6.2	72	9.83	42.2	1.91
DUP			0.13	7.44	7.4	460	2.07	0.36	0.01	0.27	83.1	6.2	68	9.57	38.4	1.92
Target Range - Lower Bound			0.12	6.96	7.1	420	1.92	0.34	<0.01	0.19	82.0	5.8	66	9.17	38.7	1.81
Upper Bound			0.16	7.72	8.3	500	2.22	0.40	0.02	0.25	90.6	6.6	75	10.25	41.9	2.02
TRD000376		0.008														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.06	8.24	2.1	610	2.11	0.12	5.52	0.09	100.0	13.4	9	4.19	23.0	3.99	
DUP		0.06	7.97	2.1	590	1.88	0.12	5.38	0.06	96.7	12.8	9	4.04	22.0	3.89	
Target Range - Lower Bound		0.05	7.69	1.8	550	1.85	0.10	5.17	0.05	93.4	12.3	8	3.86	21.5	3.73	
Upper Bound		0.07	8.52	2.4	660	2.14	0.14	5.73	0.10	103.5	13.9	10	4.37	23.5	4.15	
ORIGINAL		0.06	7.70	7.7	90	1.60	0.67	17.65	0.13	200	8.0	19	2.31	34.5	7.86	
DUP		0.06	7.56	6.9	90	1.62	0.66	17.10	0.10	196.5	7.9	18	2.24	34.8	7.70	
Target Range - Lower Bound		0.05	7.24	6.7	70	1.48	0.62	16.50	0.09	188.5	7.5	17	2.11	33.2	7.38	
Upper Bound		0.07	8.02	7.9	110	1.74	0.71	18.25	0.14	208	8.4	20	2.44	36.1	8.18	



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 Account: TINONEAUS

Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000168		22.2	0.43	3.8	0.071	2.93	48.2	40.1	1.41	933	0.53	0.66	15.4	38.3	530	14.3
DUP		21.4	0.48	3.7	0.068	2.85	46.4	39.1	1.37	902	0.54	0.65	15.4	37.8	510	14.4
Target Range – Lower Bound		20.7	0.37	3.5	0.061	2.74	44.4	37.4	1.31	867	0.46	0.61	14.5	35.9	480	13.1
Upper Bound		22.9	0.54	4.0	0.078	3.04	50.2	41.8	1.47	968	0.61	0.70	16.3	40.2	560	15.6
TRD000303		20.8	0.11	3.9	0.071	2.82	46.4	20.0	0.52	97	3.08	0.09	15.6	16.9	140	28.4
DUP		19.70	0.11	3.7	0.058	2.79	41.6	20.0	0.52	98	2.83	0.09	14.1	16.6	140	27.8
Target Range – Lower Bound		19.20	<0.05	3.5	0.056	2.65	41.3	18.8	0.48	88	2.76	0.08	14.0	15.7	120	26.2
Upper Bound		21.3	0.17	4.1	0.073	2.96	46.7	21.2	0.56	107	3.15	0.10	15.7	17.8	160	30.0
TRD000376																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL		24.0	0.20	1.6	0.190	2.65	43.5	19.2	0.34	1465	1.82	2.44	12.0	3.7	2710	11.2
DUP		23.3	0.26	1.5	0.164	2.57	41.5	18.4	0.32	1445	1.75	2.38	11.2	3.4	2630	10.8
Target Range – Lower Bound		22.4	0.16	1.4	0.163	2.47	39.9	17.7	0.30	1375	1.65	2.28	10.9	3.2	2530	10.0
Upper Bound		24.9	0.30	1.7	0.191	2.75	45.1	19.9	0.36	1535	1.92	2.54	12.3	3.9	2810	12.1
ORIGINAL		19.35	0.16	3.4	1.480	0.40	140.0	10.7	0.30	5260	4.45	0.43	4.8	8.4	680	5.8
DUP		19.25	0.24	3.3	1.510	0.38	138.5	10.8	0.29	5100	4.28	0.42	4.7	8.9	660	5.7
Target Range – Lower Bound		18.30	0.14	3.1	1.415	0.36	132.0	10.0	0.27	4920	4.10	0.39	4.4	8.0	630	5.0
Upper Bound		20.3	0.27	3.6	1.575	0.42	146.5	11.5	0.32	5440	4.63	0.46	5.1	9.3	710	6.5

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



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Project: Panama Project 1-3-22

**QC CERTIFICATE OF ANALYSIS BU22052100**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
<b>DUPLICATES</b>																
TRD000168		179.5	<0.002	0.02	0.89	14.2	<1	3.7	54.0	1.31	0.07	18.30	0.442	0.86	3.4	91
DUP		180.5	<0.002	0.02	0.95	13.4	<1	3.6	54.2	1.24	0.06	17.50	0.420	0.84	3.2	87
Target Range - Lower Bound		171.0	<0.002	<0.01	0.80	13.0	<1	3.3	51.2	1.16	<0.05	17.00	0.404	0.77	3.0	84
Upper Bound		189.0	0.004	0.03	1.04	14.6	2	4.0	57.0	1.39	0.10	18.80	0.458	0.93	3.6	94
TRD000303		178.0	<0.002	1.12	3.99	13.0	1	3.8	40.5	1.11	<0.05	17.95	0.393	1.11	4.0	100
DUP		160.5	<0.002	1.11	3.84	12.4	<1	3.6	37.3	1.05	0.08	16.15	0.401	1.06	3.7	101
Target Range - Lower Bound		160.5	<0.002	1.05	3.57	12.0	<1	3.3	36.8	0.98	<0.05	16.20	0.372	0.98	3.6	94
Upper Bound		178.0	0.004	1.18	4.26	13.4	2	4.1	41.0	1.18	0.10	17.90	0.422	1.19	4.1	107
TRD000376																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		55.8	0.003	0.90	0.33	9.4	<1	2.4	1455	0.62	<0.05	6.86	0.622	13.35	2.1	148
DUP		53.0	0.004	0.87	0.35	9.0	1	2.3	1410	0.58	<0.05	6.17	0.606	13.05	2.0	146
Target Range - Lower Bound		51.6	<0.002	0.83	0.26	8.6	<1	2.0	1360	0.52	<0.05	6.18	0.578	12.20	1.8	139
Upper Bound		57.2	0.004	0.94	0.42	9.8	2	2.7	1505	0.68	0.10	6.85	0.650	14.20	2.3	155
ORIGINAL		14.6	0.008	0.75	1.04	14.3	1	18.3	317	0.31	<0.05	5.92	0.327	4.05	4.8	95
DUP		14.2	0.013	0.73	1.10	13.9	<1	18.2	306	0.30	<0.05	5.81	0.317	3.98	4.8	93
Target Range - Lower Bound		13.6	0.008	0.69	0.94	13.3	<1	17.1	296	0.24	<0.05	5.56	0.301	3.69	4.5	88
Upper Bound		15.2	0.013	0.79	1.20	14.9	2	19.4	327	0.37	0.10	6.17	0.343	4.34	5.1	100



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**QC CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	0.1	2	0.5
<b>DUPLICATES</b>					
TRD000168		3.8	24.7	92	121.5
DUP		3.7	24.6	89	123.5
Target Range - Lower Bound		3.4	23.3	84	113.0
Upper Bound		4.1	26.0	97	132.0
TRD000303		3.3	22.2	26	137.0
DUP		3.1	20.4	25	131.0
Target Range - Lower Bound		2.9	20.1	22	123.5
Upper Bound		3.5	22.5	29	144.5
TRD000376					
DUP					
Target Range - Lower Bound					
Upper Bound					
ORIGINAL		5.4	17.9	50	37.3
DUP		5.3	16.9	48	35.1
Target Range - Lower Bound		4.8	16.4	45	33.0
Upper Bound		5.9	18.4	53	39.4
ORIGINAL		1.9	19.8	96	112.5
DUP		1.8	19.5	94	109.5
Target Range - Lower Bound		1.6	18.6	88	102.0
Upper Bound		2.1	20.7	102	120.0

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<b>QC CERTIFICATE OF ANALYSIS BU22052100</b>
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	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>ACCREDITATION COMMENTS</b>								
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
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 BAG-21								
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23								
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61								
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">BAG-01</td> <td style="width: 25%;">CRU-21</td> <td style="width: 25%;">LEV-01</td> <td style="width: 25%;">LOG-22</td> </tr> <tr> <td>PUL-23</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	BAG-01	CRU-21	LEV-01	LOG-22	PUL-23	PUL-QC	SPL-21	WEI-21
BAG-01	CRU-21	LEV-01	LOG-22						
PUL-23	PUL-QC	SPL-21	WEI-21						



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Account: TINONEAUS

**QC CERTIFICATE BU22066014**

Project: Panama Project

This report is for 188 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 17-MAR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				67.9	4.58	581	750	1.84	5.61	1.89	19.95	45.0	758	54	6.94	8360
EMOG-17				64.8	4.36	552	390	1.75	5.54	1.82	20.1	46.2	696	53	7.33	7920
EMOG-17				64.5	4.52	567	340	1.68	5.51	1.90	18.35	45.8	720	53	6.94	7930
EMOG-17				66.3	4.54	579	620	1.69	5.56	1.91	19.70	45.0	758	55	7.12	8160
EMOG-17				70.3	4.81	614	780	1.92	5.63	1.94	21.3	49.4	786	57	7.36	8740
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			99.7													
G319-9			100.0													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.79	7.23	57.0	1130	1.52	1.12	3.78	1.73	109.0	26.1	147	3.86	3740
GBM321-8				2.87	7.31	58.7	1120	1.48	1.12	3.92	1.79	100.5	26.4	143	3.90	3690
GBM321-8				2.93	6.95	59.9	1120	1.55	1.12	3.75	1.70	104.5	26.8	142	3.77	3650
GBM321-8				2.77	6.71	57.7	1040	1.60	1.12	3.59	1.80	104.5	25.8	133	3.64	3430
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1		0.029														
GLG313-1		0.031														
GLG313-1		0.027														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.45														
KIP-19		2.58														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
KIP-19			2.53													
KIP-19			2.46													
Target Range - Lower Bound			2.23													
Upper Bound			2.63													
MRGeo08				4.18	7.63	34.8	1110	3.41	0.60	2.64	2.14	70.6	19.2	97	12.85	641
MRGeo08				4.40	7.74	36.4	1120	3.35	0.66	2.74	2.36	73.4	20.4	96	13.05	643
MRGeo08				4.20	6.39	34.2	1100	3.34	0.66	2.62	2.27	55.6	19.2	91	10.95	637
MRGeo08				4.30	7.35	33.5	1070	3.30	0.66	2.60	2.29	68.6	18.5	92	11.80	618
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		4.81	11.75	0.18	1.8	0.907	1.66	23.3	25.6	0.93	732	1110	1.12	13.8	7600	830
EMOG-17		4.60	12.60	0.44	1.8	0.930	1.54	22.8	26.4	0.89	694	1060	1.04	14.2	7110	750
EMOG-17		4.74	11.35	0.14	1.7	0.888	1.60	21.8	22.4	0.93	701	1090	1.09	13.2	7280	770
EMOG-17		4.77	12.20	0.14	1.8	0.893	1.63	23.1	26.4	0.93	718	1090	1.10	14.2	7440	810
EMOG-17		4.97	12.60	0.17	2.1	0.916	1.68	24.9	27.8	0.95	775	1120	1.14	15.4	7970	860
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.48	21.2	0.17	3.6	0.075	2.11	55.7	10.9	1.83	821	64.6	2.18	10.1	2330	1030
GBM321-8		5.71	21.5	0.38	3.6	0.066	2.14	51.5	10.9	1.89	817	65.3	2.25	10.7	2300	990
GBM321-8		5.43	19.65	0.19	3.8	0.080	2.14	53.7	11.4	1.84	800	59.6	2.19	10.5	2280	1030
GBM321-8		5.21	19.50	0.19	3.5	0.073	2.00	54.7	12.2	1.73	742	59.5	2.03	10.2	2090	900
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		3.87	18.95	0.14	3.1	0.161	3.10	35.1	31.4	1.32	575	14.65	1.99	19.7	733	1070
MRGeo08		4.06	20.2	0.38	3.3	0.172	3.20	36.9	32.5	1.38	567	16.15	2.05	21.6	719	1060
MRGeo08		3.87	17.80	0.20	3.1	0.151	3.16	27.0	31.9	1.25	565	14.50	2.01	19.9	725	1070
MRGeo08		3.83	17.75	0.12	3.0	0.165	3.08	33.7	33.1	1.30	541	15.20	1.92	20.1	687	990
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160



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 Account: TINONEAUS

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		7320	106.5	0.302	3.24	815	7.8	6	2.5	203	0.92	1.24	10.90	0.314	2.05	3.2
EMOG-17		6740	109.0	0.314	3.02	748	7.6	7	2.5	199.0	0.92	1.39	11.15	0.301	2.12	3.2
EMOG-17		7160	102.0	0.304	3.06	745	7.7	6	2.4	197.5	0.89	1.26	10.35	0.310	2.13	3.1
EMOG-17		7200	110.5	0.311	3.18	784	7.4	7	2.6	203	0.85	1.34	10.45	0.319	2.17	2.9
EMOG-17		7530	114.0	0.321	3.36	852	8.5	7	2.8	214	0.87	1.41	11.05	0.329	2.19	3.0
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		2070	165.0	<0.002	0.42	1.49	20.1	1	3.1	295	0.76	0.05	17.60	0.675	1.18	2.1
GBM321-8		2050	166.5	<0.002	0.42	1.66	17.6	1	2.9	311	0.75	0.06	18.20	0.669	1.21	2.1
GBM321-8		2070	170.5	<0.002	0.42	1.87	18.9	1	3.3	291	0.76	0.06	17.70	0.656	1.21	2.2
GBM321-8		1940	163.5	<0.002	0.41	1.76	18.5	1	3.0	275	0.66	0.08	17.45	0.624	1.09	2.1
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1095	187.5	0.009	0.31	4.30	12.8	1	3.7	306	1.48	<0.05	18.45	0.509	0.95	5.1
MRGeo08		1095	216	0.009	0.31	4.76	12.1	1	4.2	324	1.55	<0.05	22.1	0.506	1.09	5.9
MRGeo08		1110	143.5	0.008	0.31	4.41	10.2	1	3.8	296	1.45	<0.05	15.90	0.492	1.01	4.4
MRGeo08		1065	178.0	0.009	0.32	4.54	11.4	1	4.0	297	1.40	<0.05	19.80	0.489	0.92	5.0
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
EMOG-17		71	3.9	16.0	7580	61.9
EMOG-17		69	4.4	15.4	7260	60.7
EMOG-17		70	3.8	15.0	7260	59.2
EMOG-17		71	3.7	15.6	7350	63.6
EMOG-17		74	4.1	16.1	7820	70.7
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		142	3.2	37.1	1150	141.5
GBM321-8		136	3.3	37.6	1075	131.5
GBM321-8		142	3.1	39.1	1115	136.5
GBM321-8		129	3.3	36.7	1025	141.5
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
MRGeo08		109	4.6	25.6	867	104.0
MRGeo08		110	4.9	28.0	820	108.0
MRGeo08		112	4.5	22.7	850	99.9
MRGeo08		105	4.2	25.0	804	109.5
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
OREAS 152a				0.70	7.89	35.0	80	0.49	0.13	1.57	0.23	9.37	12.4	19	0.62	3970
OREAS 152a				0.69	6.18	33.3	80	0.46	0.14	1.36	0.24	8.52	11.5	18	0.63	3830
OREAS 152a				0.67	7.79	32.3	80	0.48	0.13	1.56	0.23	8.83	11.4	18	0.60	3790
OREAS 152a				0.67	9.43	34.7	80	0.42	0.12	1.71	0.22	7.81	11.2	18	0.53	3830
OREAS 152a				0.63	6.48	34.1	80	0.44	0.11	1.43	0.23	6.13	11.1	18	0.46	3850
Target Range - Lower Bound				0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610
Upper Bound				0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150
OREAS 237		2.24														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
TAZ-20		0.305														
TAZ-20		0.306														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.05													
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.5
BLANK				0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
OREAS 152a		3.73	18.15	0.13	0.1	0.025	1.46	3.7	6.1	2.11	292	81.2	2.32	0.9	11.2	660
OREAS 152a		3.45	18.75	0.52	0.1	0.022	1.32	3.2	6.8	1.96	277	81.3	2.22	1.0	11.3	590
OREAS 152a		3.68	17.15	0.10	0.1	0.028	1.41	3.1	6.9	2.08	283	77.8	2.31	0.9	10.8	620
OREAS 152a		3.87	17.95	0.07	<0.1	0.018	1.48	3.0	6.1	2.22	290	79.3	2.33	0.8	10.6	630
OREAS 152a		3.48	16.60	0.10	0.1	0.022	1.29	2.3	6.1	1.89	288	78.0	2.22	0.9	10.9	630
Target Range - Lower Bound		3.37	16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550
Upper Bound		4.14	20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	0.07	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
OREAS 152a		5.7	23.9	0.285	0.93	1.59	21.8	7	1.4	118.5	0.06	0.18	0.27	0.334	0.19	0.1
OREAS 152a		6.0	20.7	0.295	0.88	1.50	19.8	8	1.5	108.5	0.06	0.18	0.24	0.330	0.19	0.1
OREAS 152a		5.4	19.8	0.285	0.90	1.34	20.6	7	1.4	116.5	0.06	0.16	0.24	0.313	0.20	0.1
OREAS 152a		5.5	18.0	0.286	0.91	1.43	18.0	8	1.4	116.0	0.06	0.19	0.21	0.378	0.18	0.1
OREAS 152a		5.2	12.5	0.279	0.90	1.45	16.4	7	1.4	104.0	0.05	0.16	0.15	0.310	0.20	0.1
Target Range - Lower Bound		5.0	19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1
Upper Bound		7.7	24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.02	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		0.6	<0.1	<0.002	0.02	<0.05	<0.1	<1	0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1

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





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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>BLANKS</b>																
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.3
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4
<b>DUPLICATES</b>																
ORIGINAL				0.12	6.28	5.4	650	0.97	0.18	4.90	0.04	34.7	34.6	182	0.69	336
DUP				0.18	6.50	5.1	670	0.91	0.18	5.04	0.04	37.1	34.7	183	0.71	342
Target Range - Lower Bound				0.13	6.06	4.8	600	0.84	0.16	4.71	<0.02	34.1	32.8	172	0.62	327
Upper Bound				0.17	6.72	5.7	720	1.04	0.20	5.23	0.06	37.7	36.5	193	0.79	351
ORIGINAL				0.20	6.48	4.5	490	1.12	0.09	3.90	0.09	15.50	17.2	50	0.42	1955
DUP				0.21	6.91	4.1	480	1.05	0.08	3.85	0.06	16.45	17.4	51	0.46	1915
Target Range - Lower Bound				0.18	6.35	3.9	440	0.98	0.07	3.67	0.05	15.15	16.3	47	0.37	1865
Upper Bound				0.23	7.04	4.7	530	1.19	0.10	4.08	0.10	16.80	18.3	54	0.51	2000
ORIGINAL				0.81	6.20	233	690	1.18	0.17	0.13	0.02	30.8	8.7	36	11.10	19.2
DUP				0.83	6.37	239	710	1.28	0.18	0.13	0.03	32.9	9.0	38	11.50	20.1
Target Range - Lower Bound				0.77	5.96	224	640	1.12	0.16	0.11	<0.02	30.2	8.3	34	10.70	18.8
Upper Bound				0.87	6.61	248	760	1.34	0.19	0.15	0.04	33.5	9.4	40	11.90	20.5
TRD000184				0.03	8.37	8.0	730	2.63	0.27	0.01	0.03	54.2	2.7	68	4.71	26.2
DUP				0.02	9.21	8.0	760	2.89	0.29	0.01	0.03	73.2	2.7	71	5.18	26.8
Target Range - Lower Bound				<0.01	8.34	7.4	680	2.57	0.26	<0.01	<0.02	60.5	2.5	65	4.65	25.4
Upper Bound				0.04	9.24	8.6	810	2.95	0.30	0.02	0.04	66.9	2.9	74	5.24	27.6
TRD000199				0.02	8.93	2.0	800	2.92	0.17	0.01	0.03	47.7	4.4	70	7.62	18.8
DUP				0.02	7.67	1.6	740	3.25	0.17	0.01	0.02	31.5	4.1	70	7.21	18.2
Target Range - Lower Bound				<0.01	7.88	1.5	700	2.88	0.15	<0.01	<0.02	37.6	3.9	66	6.99	17.7
Upper Bound				0.03	8.73	2.1	840	3.29	0.19	0.02	0.04	41.6	4.6	75	7.84	19.3
TRD000204				<0.005												
DUP				0.006												
Target Range - Lower Bound				<0.005												
Upper Bound				0.010												



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**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>BLANKS</b>																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20
<b>DUPLICATES</b>																
ORIGINAL		9.10	15.65	0.19	1.5	0.123	2.70	16.6	19.4	4.86	956	3.92	1.78	3.1	70.6	1830
DUP		9.46	16.10	0.25	1.7	0.132	2.81	17.6	18.8	5.01	984	4.14	1.84	3.0	71.3	1890
Target Range - Lower Bound		8.81	15.05	0.15	1.4	0.116	2.61	15.7	17.9	4.68	917	3.78	1.71	2.8	67.2	1760
Upper Bound		9.75	16.70	0.29	1.8	0.139	2.90	18.5	20.3	5.19	1025	4.28	1.91	3.3	74.7	1960
ORIGINAL		4.37	14.75	0.17	1.5	0.054	2.46	6.9	14.8	1.79	568	63.1	3.14	4.6	27.8	1330
DUP		4.33	13.45	0.10	1.5	0.044	2.40	7.4	13.7	1.83	559	59.6	3.08	4.6	28.1	1340
Target Range - Lower Bound		4.12	13.35	0.07	1.3	0.042	2.30	6.3	13.3	1.71	530	58.2	2.94	4.3	26.4	1260
Upper Bound		4.58	14.85	0.20	1.7	0.056	2.56	8.0	15.2	1.91	597	64.5	3.28	4.9	29.5	1410
ORIGINAL		2.41	14.20	0.07	2.4	0.022	5.00	15.5	81.4	0.58	378	1.59	0.09	5.1	15.4	230
DUP		2.47	14.40	0.07	2.5	0.017	4.80	16.8	80.9	0.59	388	1.66	0.09	5.1	16.0	250
Target Range - Lower Bound		2.31	13.55	<0.05	2.2	0.014	4.65	14.8	76.9	0.55	359	1.49	0.08	4.7	14.7	220
Upper Bound		2.57	15.05	0.10	2.7	0.025	5.16	17.5	85.4	0.62	407	1.76	0.10	5.5	16.7	260
TRD000184		2.28	22.7	0.08	3.4	0.072	2.82	25.3	12.8	0.23	59	0.48	0.12	14.6	11.3	140
DUP		2.39	24.3	0.09	3.5	0.074	2.89	34.4	15.0	0.25	63	0.51	0.12	15.6	11.6	150
Target Range - Lower Bound		2.21	22.3	<0.05	3.2	0.064	2.70	27.9	13.0	0.22	53	0.42	0.10	14.2	10.7	130
Upper Bound		2.46	24.7	0.10	3.7	0.082	3.01	31.8	14.8	0.26	69	0.57	0.14	16.0	12.2	160
TRD000199		2.84	22.6	0.09	3.5	0.082	3.21	31.4	19.0	0.36	69	0.27	0.13	15.8	15.8	110
DUP		2.61	22.5	0.10	3.3	0.080	2.86	19.2	19.9	0.31	64	0.25	0.12	14.7	15.4	100
Target Range - Lower Bound		2.58	21.4	<0.05	3.1	0.072	2.87	23.5	18.3	0.31	58	0.20	0.11	14.4	14.6	90
Upper Bound		2.87	23.7	0.10	3.7	0.090	3.20	27.1	20.6	0.36	75	0.32	0.14	16.1	16.6	120
TRD000204																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>BLANKS</b>																
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2
<b>DUPLICATES</b>																
ORIGINAL		2.5	50.7	0.006	2.10	1.18	31.7	2	1.0	400	0.18	0.27	1.89	0.389	0.21	0.9
DUP		2.7	51.0	0.007	2.18	1.18	32.8	3	1.0	413	0.18	0.29	1.95	0.396	0.20	0.9
Target Range - Lower Bound		2.0	48.2	0.004	2.02	1.04	30.5	<1	0.8	386	0.12	0.22	1.81	0.368	0.17	0.8
Upper Bound		3.2	53.5	0.009	2.26	1.32	34.0	4	1.3	427	0.24	0.34	2.03	0.417	0.24	1.0
ORIGINAL		3.3	25.8	0.154	0.18	1.42	18.0	2	1.1	355	0.24	0.07	0.98	0.405	0.11	1.3
DUP		3.4	30.7	0.141	0.19	1.52	18.4	2	1.2	350	0.23	0.07	1.12	0.402	0.09	1.3
Target Range - Lower Bound		2.7	26.7	0.138	0.17	1.31	17.2	<1	0.9	335	0.17	<0.05	0.99	0.378	0.07	1.1
Upper Bound		4.0	29.8	0.157	0.20	1.63	19.2	3	1.4	370	0.30	0.10	1.11	0.429	0.13	1.5
ORIGINAL		12.1	272	<0.002	1.15	8.95	9.5	<1	3.5	34.8	0.44	<0.05	9.20	0.199	3.01	1.9
DUP		11.0	256	<0.002	1.19	9.11	10.4	<1	3.3	35.4	0.47	<0.05	9.99	0.205	3.17	2.0
Target Range - Lower Bound		10.5	251	<0.002	1.10	8.30	9.4	<1	3.0	33.1	0.38	<0.05	9.11	0.187	2.84	1.8
Upper Bound		12.6	277	0.004	1.24	9.76	10.5	2	3.8	37.1	0.53	0.10	10.10	0.217	3.34	2.1
TRD000184		10.0	117.5	<0.002	0.01	0.68	14.9	1	4.0	53.6	1.22	<0.05	15.25	0.431	0.47	2.6
DUP		10.6	130.0	<0.002	0.02	0.75	17.4	<1	4.2	59.2	1.24	<0.05	19.25	0.450	0.47	2.8
Target Range - Lower Bound		9.3	117.5	<0.002	<0.01	0.61	15.2	<1	3.7	53.4	1.12	<0.05	16.40	0.413	0.41	2.5
Upper Bound		11.3	130.0	0.004	0.02	0.82	17.1	2	4.5	59.4	1.34	0.10	18.10	0.468	0.53	2.9
TRD000199		6.3	147.5	<0.002	0.01	0.82	16.0	<1	4.0	43.2	1.24	<0.05	18.65	0.467	0.58	2.7
DUP		6.2	118.0	<0.002	0.01	0.81	14.6	<1	3.9	37.4	1.22	<0.05	13.70	0.439	0.58	2.6
Target Range - Lower Bound		5.4	126.0	<0.002	<0.01	0.70	14.4	<1	3.6	38.1	1.12	<0.05	15.35	0.425	0.52	2.4
Upper Bound		7.1	139.5	0.004	0.02	0.93	16.2	2	4.3	42.5	1.34	0.10	17.00	0.481	0.64	2.9
TRD000204																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>BLANKS</b>						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0
<b>DUPLICATES</b>						
ORIGINAL		248	3.2	14.7	42	54.2
DUP		258	1.9	15.1	43	52.8
Target Range - Lower Bound		239	2.3	14.1	38	49.0
Upper Bound		267	2.8	15.7	47	58.0
ORIGINAL		184	2.9	14.8	30	51.2
DUP		181	3.0	16.9	30	54.2
Target Range - Lower Bound		172	2.6	15.0	27	48.2
Upper Bound		193	3.3	16.7	34	57.2
ORIGINAL		64	3.3	11.5	41	70.7
DUP		64	3.4	11.8	40	72.6
Target Range - Lower Bound		60	3.0	11.0	36	65.8
Upper Bound		68	3.7	12.3	45	77.5
TRD000184		96	4.4	16.0	66	117.0
DUP		100	4.6	20.0	68	124.0
Target Range - Lower Bound		92	4.1	17.0	62	111.0
Upper Bound		104	4.9	19.0	72	130.0
TRD000199		99	6.5	27.0	61	123.5
DUP		93	6.6	19.2	57	114.5
Target Range - Lower Bound		90	6.0	21.8	54	109.5
Upper Bound		102	7.1	24.4	64	128.5
TRD000204						
DUP						
Target Range - Lower Bound						
Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD000218				0.12	7.31	33.1	780	2.64	1.18	0.01	0.17	96.2	28.9	66	8.60	40.5
DUP				0.17	7.74	31.1	780	2.75	1.02	0.01	0.12	133.0	27.5	65	9.41	39.1
Target Range - Lower Bound				0.13	7.14	30.3	710	2.51	1.04	<0.01	0.12	109.0	26.7	61	8.50	38.2
Upper Bound				0.16	7.91	33.9	850	2.88	1.17	0.02	0.17	120.5	29.7	70	9.51	41.4
TRD000233				0.02	4.77	3.2	400	1.94	0.12	0.01	<0.02	83.3	2.9	44	5.78	11.9
DUP				0.02	4.68	3.3	400	1.91	0.12	0.01	0.02	82.1	2.9	46	5.85	11.7
Target Range - Lower Bound				<0.01	4.48	2.9	360	1.78	0.10	<0.01	<0.02	78.6	2.7	42	5.47	11.2
Upper Bound				0.03	4.97	3.6	440	2.07	0.14	0.02	0.04	86.8	3.1	48	6.16	12.4
TRD000251		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000252				0.01	4.09	11.6	290	1.38	0.08	0.15	0.02	60.2	10.3	48	5.66	10.2
DUP				0.01	4.17	11.0	300	1.44	0.09	0.16	0.02	62.3	10.5	46	5.66	10.2
Target Range - Lower Bound				<0.01	3.91	10.5	260	1.29	0.07	0.14	<0.02	58.2	9.8	44	5.33	9.6
Upper Bound				0.02	4.35	12.1	330	1.53	0.10	0.17	0.04	64.3	11.0	50	5.99	10.8
TRD000267				0.04	8.48	9.7	440	2.22	0.45	0.01	0.02	93.1	1.8	80	8.85	23.5
DUP				0.04	7.16	9.9	430	2.20	0.50	0.01	0.02	56.5	1.8	84	8.38	23.7
Target Range - Lower Bound				0.03	7.42	9.1	390	2.05	0.44	<0.01	<0.02	71.1	1.6	77	8.13	22.6
Upper Bound				0.05	8.22	10.5	480	2.37	0.51	0.02	0.04	78.6	2.0	87	9.10	24.6
TRD000271		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000286				0.13	7.54	7.2	470	2.31	0.46	0.01	0.04	92.6	1.3	66	8.42	16.5
DUP				0.13	7.38	6.8	460	2.31	0.46	0.01	0.03	92.2	1.4	63	8.47	16.7
Target Range - Lower Bound				0.11	7.08	6.5	420	2.14	0.43	<0.01	<0.02	87.8	1.2	60	7.97	15.8
Upper Bound				0.15	7.84	7.6	510	2.48	0.49	0.02	0.04	97.0	1.5	69	8.92	17.4
TRD000300				0.12	6.19	11.1	380	2.25	0.43	0.01	1.09	84.6	8.7	60	8.56	43.3
DUP				0.15	6.34	10.7	390	2.46	0.44	0.01	1.27	87.5	8.9	62	8.63	44.2
Target Range - Lower Bound				0.12	5.94	10.2	350	2.19	0.40	<0.01	1.10	81.7	8.3	57	8.12	42.0
Upper Bound				0.15	6.59	11.6	420	2.52	0.47	0.02	1.26	90.4	9.3	65	9.07	45.5



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000218		2.56	19.45	0.16	3.7	0.062	3.24	45.3	34.9	1.06	320	0.57	0.11	15.4	40.8	190
DUP		2.57	19.50	0.19	3.7	0.057	3.17	67.0	35.2	1.10	328	0.53	0.11	14.8	39.8	180
Target Range - Lower Bound		2.43	18.45	0.11	3.4	0.052	3.03	52.8	33.1	1.02	303	0.47	0.09	14.2	38.1	170
Upper Bound		2.70	20.5	0.24	4.0	0.067	3.38	59.5	37.0	1.14	345	0.63	0.13	16.0	42.5	200
TRD000233		1.30	11.80	0.12	3.3	0.041	1.78	39.4	17.4	0.28	74	1.92	0.06	10.7	12.2	190
DUP		1.27	11.55	0.15	3.3	0.042	1.74	39.4	17.7	0.27	73	2.10	0.06	10.4	12.6	190
Target Range - Lower Bound		1.21	11.05	0.07	3.0	0.034	1.66	36.9	16.5	0.25	65	1.86	0.05	9.9	11.6	170
Upper Bound		1.36	12.30	0.20	3.6	0.049	1.86	41.9	18.6	0.30	82	2.16	0.07	11.2	13.2	210
TRD000251																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000252		1.81	11.25	0.34	3.4	0.044	1.41	29.7	18.4	0.61	326	1.66	0.36	9.7	21.6	690
DUP		1.86	11.20	0.32	3.4	0.033	1.44	30.1	19.2	0.62	335	1.72	0.36	10.1	21.5	700
Target Range - Lower Bound		1.73	10.60	0.26	3.1	0.032	1.34	27.9	17.7	0.57	309	1.56	0.33	9.3	20.3	650
Upper Bound		1.94	11.85	0.40	3.7	0.045	1.51	31.9	19.9	0.66	352	1.82	0.39	10.5	22.8	740
TRD000267		1.95	21.6	0.25	3.7	0.088	2.88	47.2	26.4	0.39	96	2.36	0.10	14.6	14.7	220
DUP		1.89	22.4	0.32	3.8	0.072	2.99	25.6	26.0	0.34	88	2.42	0.10	15.0	14.6	220
Target Range - Lower Bound		1.81	20.9	0.21	3.5	0.071	2.78	34.1	24.7	0.34	82	2.22	0.09	14.0	13.7	200
Upper Bound		2.03	23.2	0.36	4.0	0.089	3.09	38.7	27.7	0.39	102	2.56	0.12	15.6	15.6	240
TRD000271																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000286		0.93	22.6	0.32	4.4	0.077	2.86	47.3	19.4	0.37	52	3.26	0.09	16.9	8.4	200
DUP		0.91	22.1	0.36	4.1	0.066	2.76	47.6	19.2	0.36	51	3.39	0.09	16.7	8.5	190
Target Range - Lower Bound		0.86	21.2	0.26	3.9	0.063	2.66	44.6	18.1	0.34	44	3.11	0.08	15.9	7.8	180
Upper Bound		0.98	23.5	0.42	4.6	0.080	2.96	50.3	20.5	0.39	59	3.54	0.10	17.7	9.1	210
TRD000300		1.74	16.35	0.10	3.5	0.058	2.29	43.7	20.6	0.47	95	3.48	0.06	12.9	19.2	170
DUP		1.76	16.70	0.13	3.6	0.058	2.37	44.4	22.6	0.48	100	3.36	0.05	13.6	19.1	180
Target Range - Lower Bound		1.65	15.65	0.06	3.3	0.050	2.20	41.3	20.3	0.44	88	3.20	0.04	12.5	18.0	160
Upper Bound		1.85	17.40	0.17	3.8	0.066	2.46	46.8	22.9	0.51	107	3.64	0.07	14.0	20.3	190



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000218		25.6	131.5	<0.002	0.07	1.03	12.1	1	3.9	52.4	1.17	<0.05	13.85	0.437	0.78	4.1
DUP		33.5	158.5	<0.002	0.07	1.08	13.2	<1	4.0	54.8	1.16	0.05	19.00	0.431	0.77	4.4
Target Range - Lower Bound		27.6	137.5	<0.002	0.06	0.93	11.9	<1	3.6	50.7	1.06	<0.05	15.60	0.407	0.70	3.9
Upper Bound		31.5	152.5	0.004	0.08	1.18	13.4	2	4.3	56.5	1.27	0.10	17.25	0.461	0.85	4.6
TRD000233		6.7	91.4	<0.002	0.01	0.87	7.4	<1	2.5	45.3	0.86	<0.05	12.35	0.316	0.41	2.5
DUP		7.4	89.5	<0.002	0.01	0.95	7.4	<1	2.4	43.7	0.84	<0.05	12.40	0.310	0.43	2.6
Target Range - Lower Bound		6.2	85.8	<0.002	<0.01	0.79	6.9	<1	2.1	42.1	0.76	<0.05	11.75	0.292	0.37	2.3
Upper Bound		7.9	95.1	0.004	0.02	1.03	7.9	2	2.8	46.9	0.94	0.10	13.00	0.334	0.47	2.8
TRD000251																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000252		7.0	85.8	<0.002	0.02	0.56	6.3	<1	2.2	30.8	0.78	<0.05	11.05	0.281	0.45	2.3
DUP		7.2	88.4	<0.002	0.02	0.61	6.2	<1	2.3	31.7	0.78	<0.05	11.40	0.288	0.44	2.3
Target Range - Lower Bound		6.2	82.6	<0.002	<0.01	0.49	5.8	<1	1.9	29.5	0.69	<0.05	10.65	0.265	0.39	2.1
Upper Bound		8.0	91.6	0.004	0.03	0.68	6.7	2	2.6	33.0	0.87	0.10	11.80	0.304	0.50	2.5
TRD000267		29.7	177.0	<0.002	0.02	1.90	14.0	1	4.0	90.7	1.14	0.08	32.1	0.388	0.89	2.8
DUP		29.4	167.0	<0.002	0.02	1.94	12.6	2	4.1	83.6	1.16	0.06	22.4	0.402	0.76	2.7
Target Range - Lower Bound		27.6	163.5	<0.002	<0.01	1.73	12.5	<1	3.6	82.6	1.04	<0.05	25.9	0.370	0.74	2.5
Upper Bound		31.5	180.5	0.004	0.03	2.11	14.1	2	4.5	91.7	1.26	0.10	28.6	0.420	0.91	3.0
TRD000271																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000286		28.8	167.5	<0.002	0.03	3.47	13.8	1	4.3	83.5	1.31	0.06	21.4	0.417	0.89	4.5
DUP		28.1	168.0	<0.002	0.03	3.55	13.5	1	4.4	81.9	1.31	0.05	20.8	0.402	0.81	4.3
Target Range - Lower Bound		26.5	159.5	<0.002	0.02	3.20	12.9	<1	3.9	78.4	1.19	<0.05	20.0	0.384	0.77	4.1
Upper Bound		30.4	176.0	0.004	0.04	3.82	14.4	2	4.8	87.0	1.43	0.10	22.2	0.435	0.93	4.7
TRD000300		34.0	139.5	<0.002	0.88	3.54	11.6	<1	3.4	36.3	0.97	0.07	17.40	0.339	0.90	3.7
DUP		36.6	144.5	0.002	0.89	3.59	11.3	1	3.4	37.4	1.02	0.05	17.45	0.362	0.97	3.8
Target Range - Lower Bound		33.0	135.0	<0.002	0.83	3.25	10.8	<1	3.0	34.8	0.90	<0.05	16.55	0.328	0.84	3.5
Upper Bound		37.6	149.0	0.004	0.94	3.88	12.1	2	3.8	38.9	1.09	0.10	18.30	0.373	1.03	4.0



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**QC CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000218		100	5.3	46.2	125	132.0
DUP		98	5.3	55.8	119	129.0
Target Range - Lower Bound		93	4.8	48.4	114	120.0
Upper Bound		105	5.8	53.7	130	141.0
TRD000233		55	4.7	24.3	39	112.5
DUP		54	4.6	23.7	39	112.0
Target Range - Lower Bound		51	4.2	22.7	35	103.5
Upper Bound		58	5.1	25.3	43	121.0
TRD000251						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000252		43	3.9	18.3	65	117.5
DUP		44	3.9	19.2	66	117.5
Target Range - Lower Bound		40	3.5	17.7	60	108.0
Upper Bound		47	4.3	19.8	71	127.0
TRD000267		108	3.1	20.9	20	126.0
DUP		113	3.2	15.0	20	126.5
Target Range - Lower Bound		104	2.8	17.0	17	116.5
Upper Bound		117	3.5	18.9	23	136.0
TRD000271						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000286		102	3.1	20.3	23	144.5
DUP		99	3.1	20.4	22	143.0
Target Range - Lower Bound		94	2.8	19.2	19	132.5
Upper Bound		107	3.4	21.5	26	155.0
TRD000300		88	2.6	19.8	26	125.0
DUP		89	2.7	20.8	26	130.0
Target Range - Lower Bound		83	2.4	19.2	23	117.5
Upper Bound		94	2.9	21.4	29	137.5



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD000303				0.15	7.24	8.0	460	2.07	0.38	0.01	0.17	89.5	6.2	72	9.83	42.2
DUP				0.13	7.44	7.4	460	2.07	0.36	0.01	0.27	83.1	6.2	68	9.57	38.4
Target Range - Lower Bound				0.12	6.96	7.1	420	1.92	0.34	<0.01	0.19	82.0	5.8	66	9.17	38.7
Upper Bound				0.16	7.72	8.3	500	2.22	0.40	0.02	0.25	90.6	6.6	75	10.25	41.9
TRD000308		<0.005														
DUP		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000320				1.36	6.24	3860	550	2.28	0.67	0.82	0.07	63.0	12.2	103	8.22	53.0
DUP				1.39	6.21	3850	550	2.13	0.63	0.82	0.07	62.1	12.4	104	7.91	52.4
Target Range - Lower Bound				1.30	5.90	3660	500	2.04	0.61	0.77	0.05	59.4	11.6	97	7.61	50.7
Upper Bound				1.45	6.55	4050	600	2.37	0.69	0.87	0.09	65.7	13.0	110	8.52	54.7
TRD000328		0.013														
DUP		0.021														
Target Range - Lower Bound		0.011														
Upper Bound		0.023														
TRD000335				0.04	7.78	6.4	550	2.60	0.43	0.10	0.02	89.1	16.8	68	11.60	34.7
DUP				0.04	7.64	5.3	540	2.59	0.43	0.10	<0.02	93.6	16.4	69	12.05	35.0
Target Range - Lower Bound				0.03	7.31	5.4	490	2.42	0.40	0.09	<0.02	86.8	15.7	64	11.20	33.4
Upper Bound				0.05	8.11	6.3	600	2.77	0.46	0.12	0.04	95.9	17.5	73	12.45	36.3
TRD000348		0.008														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000354				0.02	4.54	8.6	370	1.72	0.09	0.03	0.02	70.1	8.5	56	6.51	9.0
DUP				0.02	4.60	8.2	380	1.53	0.08	0.03	0.03	74.7	7.9	53	6.73	8.8
Target Range - Lower Bound				<0.01	4.33	7.8	340	1.49	0.07	0.02	<0.02	68.8	7.7	51	6.24	8.4
Upper Bound				0.03	4.81	9.0	410	1.76	0.10	0.04	0.04	76.0	8.7	58	7.00	9.4
TRD000561		0.008														
DUP		0.007														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000303		1.91	20.8	0.11	3.9	0.071	2.82	46.4	20.0	0.52	97	3.08	0.09	15.6	16.9	140
DUP		1.92	19.70	0.11	3.7	0.058	2.79	41.6	20.0	0.52	98	2.83	0.09	14.1	16.6	140
Target Range - Lower Bound		1.81	19.20	<0.05	3.5	0.056	2.65	41.3	18.8	0.48	88	2.76	0.08	14.0	15.7	120
Upper Bound		2.02	21.3	0.17	4.1	0.073	2.96	46.7	21.2	0.56	107	3.15	0.10	15.7	17.8	160
TRD000308																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000320		3.37	15.20	0.14	2.9	0.045	2.57	32.0	37.4	1.23	345	1.50	0.48	10.7	44.8	500
DUP		3.34	15.90	0.16	2.8	0.036	2.55	32.7	36.3	1.22	346	1.32	0.48	10.7	44.3	510
Target Range - Lower Bound		3.18	14.70	0.09	2.6	0.033	2.42	30.2	34.8	1.15	323	1.29	0.45	10.1	42.1	470
Upper Bound		3.53	16.40	0.21	3.1	0.048	2.70	34.5	38.9	1.30	368	1.53	0.51	11.3	47.0	540
TRD000328																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000335		3.95	18.40	0.15	3.4	0.060	3.20	45.8	34.9	1.37	1185	0.47	0.15	15.3	38.4	520
DUP		3.88	18.65	0.14	3.6	0.079	3.15	46.9	35.9	1.35	1155	0.46	0.15	15.4	38.2	520
Target Range - Lower Bound		3.71	17.55	0.08	3.2	0.061	3.01	43.5	33.4	1.28	1105	0.39	0.13	14.5	36.2	480
Upper Bound		4.12	19.50	0.21	3.8	0.078	3.34	49.2	37.4	1.44	1235	0.54	0.17	16.2	40.4	560
TRD000348																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000354		2.30	11.75	0.10	3.7	0.032	1.66	33.0	17.2	0.56	322	2.04	0.20	10.8	22.3	440
DUP		2.37	11.60	0.13	3.5	0.032	1.69	34.2	13.9	0.57	329	1.90	0.21	10.4	22.0	450
Target Range - Lower Bound		2.21	11.05	0.06	3.3	0.025	1.58	31.4	14.6	0.53	304	1.82	0.18	10.0	20.8	410
Upper Bound		2.46	12.30	0.17	3.9	0.039	1.77	35.8	16.5	0.60	347	2.12	0.23	11.2	23.5	480
TRD000561																
DUP																
Target Range - Lower Bound																
Upper Bound																



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 Account: TINONEAUS

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000303		28.4	178.0	<0.002	1.12	3.99	13.0	1	3.8	40.5	1.11	<0.05	17.95	0.393	1.11	4.0
DUP		27.8	160.5	<0.002	1.11	3.84	12.4	<1	3.6	37.3	1.05	0.08	16.15	0.401	1.06	3.7
Target Range - Lower Bound		26.2	160.5	<0.002	1.05	3.57	12.0	<1	3.3	36.8	0.98	<0.05	16.20	0.372	0.98	3.6
Upper Bound		30.0	178.0	0.004	1.18	4.26	13.4	2	4.1	41.0	1.18	0.10	17.90	0.422	1.19	4.1
TRD000308																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000320		31.9	148.5	<0.002	0.77	3670	11.1	1	3.1	99.4	0.77	<0.05	12.80	0.348	0.81	2.3
DUP		31.0	147.0	<0.002	0.77	3640	10.9	1	3.2	98.9	0.77	<0.05	11.55	0.349	0.74	2.3
Target Range - Lower Bound		29.4	140.5	<0.002	0.72	3380	10.4	<1	2.8	94.0	0.68	<0.05	11.55	0.326	0.70	2.1
Upper Bound		33.5	155.0	0.004	0.82	3930	11.7	2	3.5	104.5	0.86	0.10	12.80	0.371	0.85	2.5
TRD000328																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000335		19.4	185.5	<0.002	0.02	1.91	12.8	<1	3.8	38.4	1.09	<0.05	19.30	0.420	0.91	2.9
DUP		20.1	184.0	<0.002	0.02	1.78	13.0	<1	3.6	38.6	1.17	<0.05	19.90	0.416	0.86	2.9
Target Range - Lower Bound		18.3	175.5	<0.002	<0.01	1.66	12.2	<1	3.3	36.4	1.02	<0.05	18.60	0.392	0.80	2.7
Upper Bound		21.2	194.0	0.004	0.03	2.03	13.6	2	4.1	40.6	1.24	0.10	20.6	0.444	0.97	3.1
TRD000348																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000354		8.3	126.0	<0.002	0.01	0.63	7.9	<1	2.6	27.3	0.87	<0.05	13.65	0.301	0.55	2.5
DUP		7.7	119.0	<0.002	0.01	0.56	7.6	<1	2.4	25.6	0.84	<0.05	13.85	0.307	0.56	2.4
Target Range - Lower Bound		7.1	116.5	<0.002	<0.01	0.50	7.3	<1	2.2	24.9	0.76	<0.05	13.05	0.284	0.49	2.2
Upper Bound		8.9	128.5	0.004	0.02	0.69	8.2	2	2.8	28.0	0.95	0.10	14.45	0.324	0.62	2.7
TRD000561																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000303		100	3.3	22.2	26	137.0
DUP		101	3.1	20.4	25	131.0
Target Range - Lower Bound		94	2.9	20.1	22	123.5
Upper Bound		107	3.5	22.5	29	144.5
TRD000308						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000320		82	6.7	12.1	94	103.0
DUP		82	6.4	12.9	94	104.5
Target Range - Lower Bound		77	6.0	11.8	87	95.5
Upper Bound		87	7.1	13.2	101	112.0
TRD000328						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000335		91	2.7	30.9	101	123.5
DUP		87	2.9	30.6	99	118.5
Target Range - Lower Bound		84	2.5	29.1	93	111.5
Upper Bound		94	3.1	32.4	107	130.5
TRD000348						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000354		50	5.4	21.2	51	128.0
DUP		51	5.0	20.8	52	124.0
Target Range - Lower Bound		47	4.7	19.9	47	116.0
Upper Bound		54	5.7	22.2	56	136.0
TRD000561						
DUP						
Target Range - Lower Bound						
Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
ORIGINAL			65.3														
DUP			66.3														
Target Range - Lower Bound			62.5														
Upper Bound			69.1														
ORIGINAL			142.0														
DUP			141.0														
Target Range - Lower Bound			134.5														
Upper Bound			148.5														

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



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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ORIGINAL DUP Target Range – Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range – Lower Bound Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>					
ORIGINAL DUP Target Range - Lower Bound Upper Bound						



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22066014**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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**QC CERTIFICATE BU22069258**

Project: Panama Project

This report is for 211 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 21-MAR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>STANDARDS</b>																
EMOG-17			65.8	4.65	580	430	1.75	5.77	1.90	19.60	45.9	738	54	7.09	8240	4.78
EMOG-17			64.1	4.48	567	650	1.68	5.30	1.87	18.95	46.4	724	54	6.85	8110	4.72
EMOG-17			68.6	4.78	597	580	1.78	5.94	1.96	20.6	47.0	767	56	7.07	8530	4.98
EMOG-17			67.8	4.62	587	420	1.81	5.54	1.91	21.1	47.5	752	54	7.03	8050	4.81
Target Range - Lower Bound			60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound			74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GBM321-8			2.66	6.73	55.0	1040	1.40	1.18	3.62	1.59	102.5	23.7	134	3.45	3520	5.28
GBM321-8			2.74	6.87	56.4	1060	1.34	1.14	3.73	1.64	102.5	24.3	138	3.52	3500	5.34
GBM321-8			2.62	6.92	57.1	1070	1.43	1.10	3.70	1.66	101.0	25.6	140	3.62	3530	5.38
Target Range - Lower Bound			2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380	4.98
Upper Bound			3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890	6.10
GLG313-1		0.030														
GLG313-1		0.031														
GLG313-1		0.029														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.50														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MRGeo08			4.13	7.30	32.8	1050	3.30	0.67	2.60	2.19	81.3	18.2	89	11.90	614	3.79
MRGeo08			4.01	7.49	31.5	1080	3.26	0.64	2.67	2.04	74.1	18.1	91	11.50	630	3.92
MRGeo08			4.08	7.92	34.8	1120	3.48	0.63	2.74	2.23	80.8	19.6	91	12.65	647	4.03
Target Range - Lower Bound			3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55
Upper Bound			4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37
OREAS 152a			0.66	8.04	33.7	80	0.49	0.14	1.59	0.22	9.51	11.0	18	0.64	3900	3.72
OREAS 152a			0.65	6.80	32.0	80	0.38	0.12	1.44	0.21	8.34	11.0	18	0.54	3830	3.46
OREAS 152a			0.63	6.53	32.5	70	0.37	0.14	1.48	0.19	5.88	11.1	18	0.45	3860	3.50
OREAS 152a			0.65	7.26	32.5	80	0.45	0.12	1.47	0.22	8.91	10.5	18	0.61	3690	3.51
Target Range - Lower Bound			0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610	3.37
Upper Bound			0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150	4.14
OREAS 237		2.25														
OREAS 237		2.18														
OREAS 237		2.24														
OREAS 237		2.24														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.210														



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>STANDARDS</b>																
EMOG-17		12.40	0.25	1.8	0.865	1.65	23.0	24.9	0.93	735	1110	1.08	13.8	7430	790	7230
EMOG-17		11.40	0.20	1.7	0.834	1.57	21.8	24.6	0.92	702	1075	1.08	13.3	7220	790	7000
EMOG-17		12.95	0.33	1.9	0.895	1.71	22.9	26.2	0.97	753	1150	1.12	14.4	7710	830	7550
EMOG-17		11.85	0.11	1.9	0.961	1.62	24.5	26.3	0.94	733	1055	1.08	14.3	7630	790	7290
Target Range - Lower Bound		10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570
Upper Bound		13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030
GBM321-8		18.60	0.31	3.3	0.072	1.99	50.3	10.2	1.74	758	58.2	2.11	9.6	2130	930	1945
GBM321-8		20.7	0.34	3.4	0.066	2.01	50.0	10.4	1.79	765	55.9	2.14	9.8	2150	940	1965
GBM321-8		18.90	0.14	3.4	0.072	2.11	51.2	10.4	1.79	777	60.2	2.13	9.6	2150	960	2000
Target Range - Lower Bound		18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020		1845
Upper Bound		22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480		2250
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MGeo08		18.50	0.34	3.2	0.159	2.99	38.5	33.4	1.29	537	14.05	1.94	20.1	667	1020	1030
MGeo08		18.20	0.14	3.0	0.168	3.13	34.9	31.5	1.33	547	14.15	2.00	19.6	687	1040	1065
MGeo08		18.40	0.13	3.2	0.167	3.34	39.4	33.4	1.38	569	15.30	2.04	20.5	711	1080	1100
Target Range - Lower Bound		17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971
Upper Bound		21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185
OREAS 152a		18.10	0.24	0.1	0.027	1.43	3.6	6.1	2.11	294	77.8	2.31	0.9	10.2	630	5.7
OREAS 152a		16.85	0.26	0.1	0.032	1.33	2.9	6.3	1.97	277	75.1	2.22	0.9	12.9	600	6.0
OREAS 152a		17.20	0.28	0.1	0.026	1.32	2.1	5.7	1.90	286	76.3	2.25	0.8	10.0	600	5.1
OREAS 152a		16.90	0.08	0.1	0.024	1.34	3.5	6.0	2.01	282	75.0	2.23	0.9	10.4	610	5.1
Target Range - Lower Bound		16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550	5.0
Upper Bound		20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690	7.7
OREAS 237																
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>STANDARDS</b>																
EMOG-17		105.5	0.295	3.11	784	7.9	7	2.6	208	0.87	1.34	11.15	0.314	2.12	3.1	72
EMOG-17		108.5	0.287	3.13	754	7.2	6	2.4	205	0.88	1.29	10.35	0.312	2.03	2.8	71
EMOG-17		108.5	0.329	3.27	805	7.9	7	2.6	216	0.87	1.36	10.95	0.324	2.23	3.1	75
EMOG-17		110.0	0.305	3.12	768	7.6	7	2.7	207	0.90	1.36	10.70	0.312	2.11	2.9	71
Target Range - Lower Bound		98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67
Upper Bound		121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84
GBM321-8		162.5	<0.002	0.41	1.52	16.9	1	2.8	284	0.79	<0.05	16.45	0.619	1.11	2.0	134
GBM321-8		157.0	<0.002	0.42	1.60	17.7	1	3.0	292	0.75	0.10	16.35	0.636	1.21	2.1	135
GBM321-8		163.5	<0.002	0.41	1.58	17.9	1	2.9	292	0.62	0.06	17.10	0.630	1.10	2.0	135
Target Range - Lower Bound		153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0	123
Upper Bound		187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6	153
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		209	0.006	0.30	4.40	12.0	1	3.9	300	1.52	<0.05	20.8	0.479	1.11	5.4	106
MRGeo08		180.0	0.006	0.30	4.17	11.0	1	3.6	312	1.49	<0.05	19.10	0.489	1.03	5.3	108
MRGeo08		219	0.009	0.30	4.34	12.6	1	3.7	322	1.43	<0.05	21.6	0.503	0.98	5.6	113
Target Range - Lower Bound		173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97
Upper Bound		212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121
OREAS 152a		22.9	0.292	0.90	1.36	22.5	7	1.4	119.5	0.13	0.16	0.29	0.325	0.19	0.1	301
OREAS 152a		19.0	0.268	0.87	2.05	18.6	7	1.3	110.5	0.28	0.19	0.24	0.317	0.17	0.1	292
OREAS 152a		11.0	0.270	0.86	1.56	16.6	7	1.3	106.5	0.08	0.16	0.16	0.311	0.19	0.1	296
OREAS 152a		19.2	0.268	0.86	1.36	21.4	7	1.4	107.5	0.06	0.18	0.23	0.315	0.18	0.1	293
Target Range - Lower Bound		19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1	269
Upper Bound		24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3	331
OREAS 237																
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
<b>STANDARDS</b>					
EMOG-17		3.8	15.0	7390	61.2
EMOG-17		3.6	15.6	7210	58.8
EMOG-17		3.7	16.2	7660	65.5
EMOG-17		4.0	16.6	7480	65.3
Target Range - Lower Bound		3.3	14.3	6800	55.6
Upper Bound		4.7	17.7	8320	76.4
GBM321-8		3.4	35.6	1035	126.0
GBM321-8		3.0	34.8	1045	127.0
GBM321-8		3.1	36.1	1035	126.5
Target Range - Lower Bound		2.9	35.2	961	117.5
Upper Bound		4.1	43.2	1180	160.5
GLG313-1					
GLG313-1					
GLG313-1					
Target Range - Lower Bound					
Upper Bound					
KIP-19					
Target Range - Lower Bound					
Upper Bound					
MGeo08		4.8	26.6	794	101.5
MGeo08		4.6	24.0	809	96.5
MGeo08		4.7	28.5	814	105.5
Target Range - Lower Bound		4.1	23.8	722	92.2
Upper Bound		5.8	29.3	886	126.0
OREAS 152a		3.7	10.3	85	1.5
OREAS 152a		3.7	9.0	84	1.5
OREAS 152a		3.5	7.2	83	1.4
OREAS 152a		3.4	9.4	82	1.6
Target Range - Lower Bound		3.4	9.7	76	0.8
Upper Bound		4.8	12.1	98	3.2
OREAS 237					
OREAS 237					
OREAS 237					
OREAS 237					
Target Range - Lower Bound					
Upper Bound					
OREAS 253					



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>STANDARDS</b>																
OREAS 253		1.235														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
TAZ-20		0.306														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	0.02	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.3	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Target Range - Lower Bound			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound			0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.3	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.06	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
Target Range - Lower Bound		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2

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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
<b>STANDARDS</b>					
OREAS 253					
Target Range - Lower Bound					
Upper Bound					
TAZ-20					
Target Range - Lower Bound					
Upper Bound					
<b>BLANKS</b>					
BLANK					
Target Range - Lower Bound					
Upper Bound					
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	5	<0.5
BLANK		<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5
Upper Bound		0.2	0.2	4	1.0

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
ORIGINAL		0.007														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL			0.24	5.69	126.5	540	1.14	0.16	0.12	0.03	32.9	4.6	25	15.75	6.8	1.50
DUP			0.22	5.60	128.0	540	1.18	0.15	0.13	0.03	31.0	4.7	25	15.10	7.0	1.50
Target Range - Lower Bound			0.21	5.35	120.5	490	1.05	0.14	0.11	<0.02	30.3	4.3	23	14.60	6.5	1.42
Upper Bound			0.25	5.94	134.0	590	1.27	0.17	0.14	0.04	33.6	5.0	27	16.25	7.3	1.59
TRD000161		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000204		<0.005														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000368			0.02	8.82	23.3	570	2.17	1.06	<0.01	0.02	47.8	1.9	85	9.17	46.0	4.49
DUP			0.01	8.57	23.4	560	2.19	1.08	<0.01	<0.02	41.5	2.0	81	8.93	46.0	4.36
Target Range - Lower Bound			<0.01	8.25	22.0	510	2.02	1.01	<0.01	<0.02	42.4	1.8	78	8.55	44.2	4.19
Upper Bound			0.02	9.14	24.7	620	2.34	1.13	0.02	0.04	46.9	2.1	88	9.55	47.8	4.66
TRD000376		0.008														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000383			0.02	8.11	16.8	570	2.52	0.23	<0.01	0.02	76.5	16.6	71	4.63	37.1	3.80
DUP			0.02	7.55	15.8	550	2.41	0.23	<0.01	0.02	58.2	16.1	69	4.50	36.1	3.67
Target Range - Lower Bound			<0.01	7.43	15.3	510	2.29	0.21	<0.01	<0.02	64.0	15.4	66	4.29	35.1	3.54
Upper Bound			0.03	8.23	17.3	610	2.64	0.25	0.02	0.04	70.7	17.3	75	4.84	38.1	3.93
TRD000402			0.02	5.75	4.1	550	2.23	0.10	0.02	<0.02	64.8	9.9	53	13.10	17.1	3.01
DUP			0.02	5.68	3.9	540	2.35	0.11	0.02	0.02	67.5	9.8	53	13.50	17.0	2.99
Target Range - Lower Bound			<0.01	5.42	3.6	490	2.13	0.09	<0.01	<0.02	62.8	9.3	49	12.60	16.3	2.84
Upper Bound			0.03	6.01	4.4	600	2.45	0.12	0.03	0.04	69.5	10.4	57	14.00	17.8	3.16



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
ORIGINAL DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP		12.55	0.06	1.9	0.020	4.77	16.8	86.4	0.54	258	0.90	0.06	4.5	10.2	230	10.2
Target Range - Lower Bound		12.20	0.06	1.9	0.014	4.73	16.4	83.3	0.54	256	0.97	0.06	4.3	10.2	230	10.7
Upper Bound		11.70	<0.05	1.7	0.011	4.50	15.3	80.4	0.50	239	0.84	0.05	4.1	9.5	210	9.4
		13.05	0.10	2.1	0.023	5.00	17.9	89.3	0.58	275	1.03	0.07	4.7	10.9	250	11.5
TRD000161 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000204 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000368 DUP		20.8	0.14	4.0	0.068	2.72	11.8	12.1	0.29	164	1.46	0.09	14.8	7.2	120	16.4
Target Range - Lower Bound		20.4	0.17	3.7	0.060	2.65	9.8	12.2	0.28	158	1.44	0.09	14.8	7.3	120	16.6
Upper Bound		19.50	0.09	3.6	0.056	2.54	9.8	11.3	0.26	148	1.33	0.08	14.0	6.7	100	15.2
		21.7	0.22	4.1	0.072	2.83	11.8	13.0	0.31	174	1.57	0.10	15.6	7.8	140	17.8
TRD000376 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000383 DUP		21.5	0.18	3.2	0.085	2.86	12.3	12.8	0.24	482	0.20	0.10	15.4	8.3	240	14.8
Target Range - Lower Bound		20.9	0.15	3.1	0.073	2.84	8.8	12.2	0.22	461	0.21	0.10	14.6	7.9	230	14.7
Upper Bound		20.1	0.10	2.9	0.070	2.70	9.5	11.7	0.21	443	0.14	0.09	14.2	7.5	210	13.5
		22.3	0.23	3.4	0.088	3.00	11.6	13.3	0.25	500	0.27	0.12	15.9	8.7	260	16.0
TRD000402 DUP		14.15	0.22	3.0	0.051	1.97	30.1	25.5	0.80	920	0.77	0.26	12.0	27.4	400	9.1
Target Range - Lower Bound		14.30	0.19	3.2	0.044	1.96	30.0	25.6	0.79	914	0.77	0.26	12.0	28.9	390	9.5
Upper Bound		13.45	0.14	2.8	0.040	1.86	28.0	24.1	0.75	866	0.68	0.24	11.3	26.5	370	8.3
		15.00	0.27	3.4	0.055	2.07	32.1	27.0	0.84	968	0.86	0.28	12.7	29.8	420	10.3



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
ORIGINAL DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP		327 326	<0.002 <0.002	0.18 0.18	6.65 6.84	5.2 5.1	<1 <1	1.8 1.7	63.0 63.6	0.47 0.47	<0.05 <0.05	10.30 9.96	0.112 0.113	2.40 2.32	2.1 2.0	34 35
Target Range - Lower Bound		310	<0.002	0.16	6.19	4.8	<1	1.5	59.9	0.40	<0.05	9.61	0.102	2.16	1.8	32
Upper Bound		343	0.004	0.20	7.30	5.5	2	2.0	66.7	0.54	0.10	10.65	0.123	2.56	2.3	37
TRD000161 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000204 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000368 DUP		124.5 122.0	<0.002 <0.002	0.03 0.03	2.07 1.92	15.1 15.1	3 2	3.7 3.8	30.4 31.3	1.23 1.14	0.09 0.05	29.6 28.2	0.428 0.414	0.56 0.55	4.7 4.6	108 106
Target Range - Lower Bound		117.0	<0.002	0.02	1.80	14.2	<1	3.4	29.1	1.08	<0.05	27.4	0.395	0.49	4.3	101
Upper Bound		129.5	0.004	0.04	2.19	16.0	4	4.1	32.6	1.29	0.10	30.4	0.447	0.62	5.0	113
TRD000376 DUP		<b>DUPLICATES</b>														
Target Range - Lower Bound																
Upper Bound																
TRD000383 DUP		124.0 119.0	<0.002 <0.002	0.01 0.01	0.81 0.64	17.7 17.6	<1 <1	4.0 3.9	32.4 30.5	1.19 1.12	<0.05 <0.05	19.65 17.45	0.416 0.398	0.61 0.63	4.1 4.0	89 86
Target Range - Lower Bound		115.5	<0.002	<0.01	0.62	16.7	<1	3.6	29.7	1.05	<0.05	17.60	0.382	0.55	3.7	82
Upper Bound		127.5	0.004	0.02	0.83	18.6	2	4.3	33.2	1.26	0.10	19.50	0.432	0.69	4.4	93
TRD000402 DUP		169.5 169.0	<0.002 <0.002	0.01 0.02	0.62 0.56	8.5 8.5	<1 <1	3.1 3.1	51.7 50.6	1.00 0.98	<0.05 <0.05	13.95 14.00	0.339 0.341	1.02 1.00	2.4 2.3	63 62
Target Range - Lower Bound		160.5	<0.002	<0.01	0.50	8.0	<1	2.7	48.4	0.89	<0.05	13.25	0.318	0.91	2.1	58
Upper Bound		178.0	0.004	0.02	0.68	9.0	2	3.5	53.9	1.09	0.10	14.70	0.362	1.11	2.6	67



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<b>DUPLICATES</b>			
ORIGINAL DUP Target Range - Lower Bound Upper Bound		3.3 3.3 3.0 3.6	9.2 9.0 8.5 9.7	29 28 25 32	53.3 52.5 48.4 57.4
TRD000161 DUP Target Range - Lower Bound Upper Bound					
TRD000204 DUP Target Range - Lower Bound Upper Bound					
TRD000368 DUP Target Range - Lower Bound Upper Bound		10.1 10.0 9.2 10.9	12.5 11.8 11.4 12.9	41 40 36 45	135.5 131.5 123.0 144.0
TRD000376 DUP Target Range - Lower Bound Upper Bound					
TRD000383 DUP Target Range - Lower Bound Upper Bound		6.1 5.9 5.5 6.6	14.9 12.3 12.8 14.4	72 71 66 77	112.0 106.5 100.5 118.0
TRD000402 DUP Target Range - Lower Bound Upper Bound		3.6 3.8 3.3 4.1	23.6 23.3 22.2 24.7	70 69 64 75	107.5 106.0 98.2 115.5



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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000405		0.011														
DUP		0.036														
Target Range - Lower Bound		0.017														
Upper Bound		0.030														
TRD000417			0.02	5.31	3.2	380	1.60	0.14	0.06	0.02	67.1	8.9	52	6.38	20.3	3.09
DUP			0.02	5.06	3.4	360	1.72	0.15	0.06	0.02	70.1	9.1	51	6.74	20.5	2.97
Target Range - Lower Bound			<0.01	4.92	2.9	330	1.53	0.13	0.05	<0.02	65.2	8.5	48	6.18	19.5	2.87
Upper Bound			0.03	5.45	3.7	410	1.79	0.16	0.07	0.04	72.0	9.6	55	6.94	21.3	3.19
TRD000425		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000436			0.01	3.38	6.8	230	1.18	0.09	0.06	<0.02	58.5	3.9	46	7.31	8.5	2.30
DUP			0.01	3.32	6.6	220	1.21	0.10	0.06	<0.02	59.8	4.2	44	7.53	8.6	2.26
Target Range - Lower Bound			<0.01	3.17	6.2	200	1.09	0.08	0.05	<0.02	56.2	3.7	42	7.00	8.1	2.16
Upper Bound			0.02	3.53	7.2	250	1.30	0.11	0.07	0.04	62.1	4.4	48	7.84	9.0	2.40
TRD000445		0.008														
DUP		0.015														
Target Range - Lower Bound		0.006														
Upper Bound		0.017														
TRD000451			0.02	3.67	10.0	300	1.20	0.07	0.15	<0.02	61.1	8.0	52	3.96	10.8	1.79
DUP			0.02	3.58	8.7	290	1.00	0.07	0.14	<0.02	54.7	7.3	55	3.46	9.9	1.74
Target Range - Lower Bound			<0.01	3.43	8.7	260	1.00	0.06	0.13	<0.02	55.0	7.2	50	3.47	9.8	1.67
Upper Bound			0.03	3.82	10.0	330	1.21	0.08	0.16	0.04	60.8	8.1	57	3.95	10.9	1.86
TRD000470			0.01	3.16	4.2	260	1.06	0.08	0.17	<0.02	58.0	6.6	53	3.49	9.6	1.76
DUP			0.02	3.19	4.1	260	1.04	0.10	0.17	<0.02	57.4	7.0	49	3.36	9.8	1.78
Target Range - Lower Bound			<0.01	3.01	3.7	230	0.95	0.08	0.15	<0.02	54.8	6.4	47	3.20	9.2	1.67
Upper Bound			0.02	3.34	4.6	290	1.15	0.10	0.19	0.04	60.6	7.2	55	3.65	10.2	1.87
TRD000482		0.009														
DUP		0.009														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000405 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000417		12.30	0.17	2.6	0.041	1.83	31.4	20.3	0.91	653	1.10	0.29	10.6	23.2	490	7.0
DUP		12.95	0.20	2.6	0.044	1.76	32.4	21.3	0.87	625	1.12	0.28	10.8	23.8	460	7.3
Target Range - Lower Bound		11.95	0.12	2.4	0.035	1.70	29.8	19.6	0.84	602	1.00	0.26	10.1	22.1	440	6.3
Upper Bound		13.30	0.25	2.8	0.050	1.89	34.0	22.0	0.94	676	1.22	0.31	11.3	24.9	510	8.0
TRD000425 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000436		8.14	0.16	2.8	0.022	1.05	26.2	12.8	0.47	293	1.49	0.41	7.6	15.8	560	5.8
DUP		8.30	0.16	2.8	0.018	1.02	26.8	13.4	0.46	289	1.66	0.40	7.9	17.0	550	5.8
Target Range - Lower Bound		7.76	0.10	2.6	0.014	0.97	24.7	12.2	0.43	271	1.45	0.37	7.3	15.4	520	5.0
Upper Bound		8.68	0.22	3.0	0.026	1.10	28.3	14.0	0.50	311	1.70	0.44	8.2	17.4	590	6.6
TRD000445 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000451		8.96	0.17	2.9	0.025	1.24	27.8	15.9	0.55	247	1.93	0.44	8.5	17.9	720	5.8
DUP		7.96	0.12	2.4	0.023	1.21	24.2	13.6	0.54	245	1.67	0.43	7.9	17.2	710	5.0
Target Range - Lower Bound		7.99	0.08	2.4	0.018	1.15	24.2	13.8	0.51	229	1.66	0.40	7.7	16.5	670	4.6
Upper Bound		8.93	0.21	2.9	0.030	1.30	27.8	15.7	0.58	263	1.94	0.47	8.7	18.6	760	6.2
TRD000470		8.22	0.15	2.5	0.018	1.06	27.1	12.8	0.54	231	2.39	0.53	7.3	15.3	750	5.9
DUP		8.09	0.18	2.5	0.030	1.07	27.0	12.9	0.55	234	2.51	0.54	7.6	15.6	750	6.0
Target Range - Lower Bound		7.70	0.10	2.3	0.018	1.00	25.2	12.0	0.51	216	2.28	0.50	7.0	14.5	700	5.2
Upper Bound		8.61	0.23	2.7	0.030	1.13	28.9	13.7	0.58	249	2.62	0.57	7.9	16.4	800	6.7
TRD000482 DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61															
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	
<b>DUPLICATES</b>																	
TRD000405 DUP																	
Target Range - Lower Bound																	
Upper Bound																	
TRD000417		110.0	<0.002	0.02	0.33	7.7	<1	2.6	32.3	0.76	<0.05	11.95	0.313	0.52	2.1	58	
DUP		113.5	<0.002	0.01	0.35	8.2	<1	2.6	32.5	0.89	<0.05	12.40	0.299	0.54	2.2	55	
Target Range - Lower Bound		106.0	<0.002	<0.01	0.26	7.5	<1	2.3	30.6	0.73	<0.05	11.55	0.286	0.47	1.9	53	
Upper Bound		117.5	0.004	0.02	0.42	8.4	2	2.9	34.2	0.92	0.10	12.80	0.326	0.59	2.4	60	
TRD000425 DUP																	
Target Range - Lower Bound																	
Upper Bound																	
TRD000436		95.8	<0.002	0.02	0.94	4.7	<1	1.4	47.3	0.60	<0.05	9.75	0.239	0.48	1.8	36	
DUP		99.6	<0.002	0.02	0.39	4.9	<1	1.6	49.2	0.63	<0.05	9.74	0.232	0.48	1.8	36	
Target Range - Lower Bound		92.7	<0.002	<0.01	0.57	4.5	<1	1.2	45.6	0.53	<0.05	9.25	0.219	0.42	1.6	33	
Upper Bound		102.5	0.004	0.03	0.76	5.1	2	1.8	50.9	0.70	0.10	10.25	0.252	0.54	2.0	39	
TRD000445 DUP																	
Target Range - Lower Bound																	
Upper Bound																	
TRD000451		79.0	<0.002	0.02	0.58	5.5	<1	1.9	30.4	0.69	<0.05	10.35	0.258	0.35	1.9	41	
DUP		74.2	<0.002	0.02	0.48	4.8	<1	1.8	28.3	0.59	<0.05	9.00	0.253	0.33	1.6	40	
Target Range - Lower Bound		72.7	<0.002	<0.01	0.44	4.8	<1	1.6	27.7	0.56	<0.05	9.18	0.238	0.29	1.6	37	
Upper Bound		80.5	0.004	0.03	0.62	5.5	2	2.1	31.0	0.72	0.10	10.15	0.273	0.39	1.9	44	
TRD000470		62.6	<0.002	0.01	0.29	4.6	<1	1.7	30.3	0.58	<0.05	8.98	0.224	0.33	2.1	34	
DUP		64.1	<0.002	0.02	0.39	4.6	<1	1.7	30.4	0.59	<0.05	8.96	0.228	0.34	2.1	34	
Target Range - Lower Bound		60.1	<0.002	<0.01	0.26	4.3	<1	1.4	28.6	0.51	<0.05	8.51	0.210	0.29	1.9	31	
Upper Bound		66.6	0.004	0.02	0.42	4.9	2	2.0	32.1	0.66	0.10	9.43	0.242	0.38	2.3	37	
TRD000482 DUP																	
Target Range - Lower Bound																	
Upper Bound																	



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
<b>DUPLICATES</b>					
TRD000405 DUP Target Range - Lower Bound Upper Bound					
TRD000417 DUP Target Range - Lower Bound Upper Bound		2.9 3.0 2.6 3.3	20.9 21.2 19.9 22.2	67 64 60 71	90.2 89.7 82.7 97.2
TRD000425 DUP Target Range - Lower Bound Upper Bound					
TRD000436 DUP Target Range - Lower Bound Upper Bound		5.5 5.7 5.1 6.1	16.8 17.5 16.2 18.1	51 50 46 55	92.5 91.6 84.6 99.5
TRD000445 DUP Target Range - Lower Bound Upper Bound					
TRD000451 DUP Target Range - Lower Bound Upper Bound		6.3 5.4 5.3 6.4	17.0 16.4 15.8 17.6	47 46 42 51	91.8 85.6 81.5 95.9
TRD000470 DUP Target Range - Lower Bound Upper Bound		6.1 6.3 5.6 6.8	18.7 19.4 18.0 20.1	48 49 44 53	85.8 84.3 78.2 91.9
TRD000482 DUP Target Range - Lower Bound Upper Bound					



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**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000486			0.01	4.70	4.4	250	0.95	0.07	0.01	<0.02	81.0	1.4	49	2.64	6.0	1.60
DUP			0.01	4.67	4.5	250	0.88	0.07	0.01	0.02	79.7	1.5	47	2.60	5.8	1.60
Target Range - Lower Bound			<0.01	4.44	4.0	220	0.82	0.06	<0.01	<0.02	76.3	1.3	45	2.44	5.5	1.51
Upper Bound			0.02	4.93	4.9	280	1.01	0.08	0.02	0.04	84.4	1.6	51	2.80	6.3	1.69
TRD000504		<0.005														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000505		<0.01	8.28	1.4	610	2.43	0.07	<0.01	0.02	101.5	14.4	68	6.43	8.7	3.31	
DUP		0.01	8.16	1.0	600	2.47	0.07	<0.01	<0.02	101.0	14.8	68	6.48	9.6	3.25	
Target Range - Lower Bound		<0.01	7.80	0.9	550	2.28	0.06	<0.01	<0.02	96.2	13.8	64	6.08	8.6	3.11	
Upper Bound		0.02	8.64	1.5	660	2.62	0.08	0.02	0.04	106.5	15.4	72	6.83	9.7	3.45	
TRD000520		0.02	7.99	1.3	620	2.30	0.32	0.01	0.03	91.9	13.4	65	6.15	40.5	3.04	
DUP		0.02	7.93	1.2	610	2.18	0.30	0.01	0.02	93.7	12.8	64	6.05	38.4	2.97	
Target Range - Lower Bound		<0.01	7.55	1.0	560	2.08	0.28	<0.01	<0.02	88.2	12.3	60	5.75	37.9	2.84	
Upper Bound		0.03	8.37	1.5	670	2.40	0.34	0.02	0.04	97.5	13.9	69	6.46	41.0	3.17	
TRD000524		0.024														
DUP		0.028														
Target Range - Lower Bound		0.020														
Upper Bound		0.032														
TRD000539		0.04	6.88	3.3	520	2.50	0.35	0.11	0.04	90.2	18.2	65	8.49	39.2	3.00	
DUP		0.03	6.92	3.1	520	2.35	0.34	0.11	0.04	87.2	17.8	64	7.94	38.4	2.99	
Target Range - Lower Bound		0.02	6.55	2.8	470	2.25	0.32	0.09	<0.02	84.3	17.0	60	7.75	37.2	2.84	
Upper Bound		0.05	7.26	3.6	570	2.60	0.37	0.13	0.06	93.1	19.0	69	8.68	40.4	3.15	
TRD000554		0.05	3.80	5.2	250	1.49	0.13	0.02	0.03	60.5	5.1	46	5.41	16.5	2.36	
DUP		0.05	3.74	5.1	250	1.46	0.12	0.02	<0.02	60.9	4.8	45	5.34	16.0	2.33	
Target Range - Lower Bound		0.04	3.57	4.7	220	1.35	0.11	<0.01	<0.02	57.7	4.6	42	5.06	15.5	2.22	
Upper Bound		0.06	3.97	5.6	280	1.60	0.14	0.03	0.04	63.7	5.3	49	5.69	17.0	2.47	
TRD000561		0.008														
DUP		0.007														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000486		10.75	0.17	3.6	0.033	0.94	34.6	4.7	0.14	56	0.93	0.05	9.4	7.5	190	13.6
DUP		10.70	0.18	3.4	0.022	0.95	33.4	5.0	0.13	54	0.93	0.05	9.3	8.4	190	13.5
Target Range - Lower Bound		10.15	0.11	3.2	0.021	0.89	31.8	4.4	0.12	47	0.83	0.04	8.8	7.4	170	12.4
Upper Bound		11.30	0.24	3.8	0.034	1.00	36.2	5.3	0.15	63	1.03	0.06	9.9	8.5	210	14.7
TRD000504																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000505		21.8	0.24	3.1	0.068	3.36	51.2	25.5	1.26	486	0.27	0.11	14.4	29.3	100	7.6
DUP		22.2	0.28	3.1	0.070	3.31	50.1	26.0	1.24	481	0.29	0.11	15.0	30.0	100	7.6
Target Range - Lower Bound		20.9	0.19	2.8	0.061	3.16	47.6	24.3	1.18	454	0.22	0.09	13.9	28.0	90	6.7
Upper Bound		23.2	0.33	3.4	0.077	3.51	53.7	27.2	1.32	513	0.34	0.13	15.5	31.3	120	8.5
TRD000520		21.8	0.25	3.1	0.082	3.31	43.3	24.6	1.03	481	0.67	0.10	14.8	28.5	210	8.9
DUP		21.7	0.28	3.0	0.069	3.25	44.1	24.2	1.01	474	0.70	0.10	14.4	27.8	210	9.0
Target Range - Lower Bound		20.6	0.20	2.8	0.067	3.11	41.0	23.0	0.96	449	0.60	0.09	13.8	26.5	190	8.0
Upper Bound		22.9	0.33	3.3	0.084	3.45	46.4	25.8	1.08	506	0.77	0.12	15.4	29.8	230	9.9
TRD000524																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000539		17.70	0.12	3.6	0.055	2.66	42.2	26.7	1.07	472	3.19	0.30	14.5	54.1	660	12.8
DUP		17.15	0.10	3.4	0.054	2.65	41.6	25.6	1.07	474	3.19	0.30	14.5	52.8	640	12.2
Target Range - Lower Bound		16.50	<0.05	3.2	0.047	2.51	39.3	24.6	1.01	444	2.98	0.28	13.7	50.6	610	11.4
Upper Bound		18.35	0.17	3.8	0.062	2.80	44.5	27.7	1.13	502	3.40	0.33	15.3	56.3	690	13.6
TRD000554		9.21	0.08	2.8	0.030	1.20	28.3	18.4	0.55	253	1.72	0.27	8.6	18.6	520	8.7
DUP		8.89	0.08	2.7	0.020	1.18	28.8	18.0	0.55	248	1.74	0.26	8.4	17.8	520	8.4
Target Range - Lower Bound		8.55	<0.05	2.5	0.019	1.12	26.6	17.1	0.51	233	1.59	0.24	8.0	17.1	480	7.6
Upper Bound		9.55	0.10	3.0	0.031	1.26	30.5	19.3	0.59	268	1.87	0.29	9.0	19.3	560	9.5
TRD000561																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22069258**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>DUPLICATES</b>																
TRD000486		60.3	<0.002	0.02	0.56	7.6	1	2.1	17.0	0.75	<0.05	16.65	0.276	0.29	2.1	42
DUP		60.5	<0.002	0.02	0.51	7.6	1	2.1	17.3	0.75	<0.05	16.50	0.274	0.28	2.1	42
Target Range - Lower Bound		57.3	<0.002	<0.01	0.44	7.1	<1	1.8	16.1	0.66	<0.05	15.75	0.256	0.24	1.9	39
Upper Bound		63.5	0.004	0.03	0.63	8.1	2	2.4	18.2	0.84	0.10	17.40	0.294	0.33	2.3	45
TRD000504																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000505		150.5	<0.002	0.03	0.25	13.4	<1	4.1	27.9	1.15	<0.05	18.55	0.411	0.73	2.6	92
DUP		156.0	0.002	0.03	0.29	13.7	<1	4.2	29.8	1.13	<0.05	18.25	0.412	0.79	2.6	94
Target Range - Lower Bound		145.5	<0.002	0.02	0.20	12.8	<1	3.7	27.2	1.03	<0.05	17.45	0.386	0.68	2.4	87
Upper Bound		161.0	0.004	0.04	0.34	14.3	2	4.6	30.5	1.25	0.10	19.35	0.437	0.84	2.8	99
TRD000520		153.5	<0.002	0.41	0.93	13.6	1	4.3	37.0	1.12	<0.05	18.25	0.401	0.88	2.5	96
DUP		154.0	<0.002	0.40	0.87	13.4	1	4.1	36.3	1.10	<0.05	17.95	0.390	0.83	2.5	94
Target Range - Lower Bound		146.0	<0.002	0.37	0.78	12.7	<1	3.8	34.6	1.00	<0.05	17.20	0.371	0.77	2.3	89
Upper Bound		161.5	0.004	0.44	1.02	14.3	2	4.6	38.7	1.22	0.10	19.00	0.420	0.94	2.7	101
TRD000524																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000539		146.5	<0.002	0.19	1.15	11.8	<1	3.4	32.6	1.06	<0.05	17.25	0.393	0.74	2.9	86
DUP		145.0	<0.002	0.19	1.09	11.4	1	3.4	31.0	1.04	<0.05	16.65	0.392	0.73	2.9	86
Target Range - Lower Bound		138.5	<0.002	0.17	0.99	10.9	<1	3.0	30.0	0.95	<0.05	16.10	0.368	0.66	2.7	81
Upper Bound		153.0	0.004	0.21	1.25	12.3	2	3.8	33.6	1.15	0.10	17.80	0.417	0.81	3.1	91
TRD000554		86.8	<0.002	0.01	0.56	6.0	<1	1.5	35.5	0.65	<0.05	10.30	0.251	0.41	1.9	41
DUP		83.1	<0.002	0.01	0.55	5.8	<1	1.5	34.0	0.63	<0.05	10.05	0.245	0.40	1.9	40
Target Range - Lower Bound		80.6	<0.002	<0.01	0.46	5.5	<1	1.2	32.8	0.56	<0.05	9.66	0.231	0.35	1.7	37
Upper Bound		89.3	0.004	0.02	0.65	6.3	2	1.8	36.7	0.72	0.10	10.70	0.265	0.46	2.1	44
TRD000561																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
<b>DUPLICATES</b>					
TRD000486		6.2	9.7	11	118.0
DUP		6.2	9.7	11	113.0
Target Range - Lower Bound		5.6	9.1	8	106.5
Upper Bound		6.8	10.3	14	124.5
TRD000504					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000505		3.6	26.0	92	104.5
DUP		3.7	26.6	91	109.0
Target Range - Lower Bound		3.3	24.9	85	98.2
Upper Bound		4.0	27.7	98	115.5
TRD000520		6.0	28.3	71	108.0
DUP		5.7	28.6	70	105.5
Target Range - Lower Bound		5.3	26.9	65	98.2
Upper Bound		6.4	30.0	76	115.5
TRD000524					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000539		6.8	27.5	94	119.0
DUP		6.5	27.4	94	114.0
Target Range - Lower Bound		6.1	26.0	87	107.5
Upper Bound		7.2	28.9	101	125.5
TRD000554		5.8	18.7	36	90.8
DUP		5.5	18.3	36	89.3
Target Range - Lower Bound		5.1	17.5	32	82.8
Upper Bound		6.2	19.5	40	97.3
TRD000561					
DUP					
Target Range - Lower Bound					
Upper Bound					



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**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte	Units	LOD	Au-AA23	ME-MS61											
	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
<b>DUPLICATES</b>																
ORIGINAL		0.01	6.39	6.4	310	3.42	0.33	5.08	0.04	83.9	46.5	25	9.89	205	13.35	
DUP		0.01	6.36	6.7	310	3.74	0.33	5.04	0.03	84.4	46.6	25	9.60	205	13.30	
Target Range - Lower Bound		<0.01	6.05	6.0	280	3.35	0.30	4.80	<0.02	79.9	44.1	23	9.21	197.5	12.65	
Upper Bound		0.02	6.70	7.1	340	3.81	0.36	5.32	0.04	88.4	49.0	27	10.30	212	14.00	

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
ORIGINAL		30.4	0.16	2.8	0.157	1.91	34.6	27.7	2.42	1200	0.93	1.80	17.0	29.5	1670	4.7
DUP		30.3	0.18	2.9	0.160	1.89	34.5	29.3	2.41	1175	0.90	1.79	17.1	30.8	1640	4.9
Target Range – Lower Bound		28.8	0.11	2.6	0.146	1.80	32.3	26.9	2.28	1125	0.82	1.70	16.1	28.4	1560	4.1
Upper Bound		31.9	0.23	3.1	0.171	2.01	36.8	30.1	2.55	1250	1.01	1.89	18.0	31.9	1750	5.5

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>DUPLICATES</b>																
ORIGINAL		165.5	<0.002	0.06	1.58	42.4	1	9.9	114.0	1.11	<0.05	7.36	1.600	0.61	2.5	432
DUP		173.5	<0.002	0.06	1.60	42.3	<1	10.4	116.5	1.10	<0.05	7.35	1.595	0.60	2.6	428
Target Range - Lower Bound		161.0	<0.002	0.05	1.42	40.1	<1	9.4	109.5	1.00	<0.05	6.98	1.515	0.54	2.3	408
Upper Bound		178.0	0.004	0.07	1.76	44.6	2	10.9	121.0	1.21	0.10	7.73	1.680	0.67	2.8	453

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**QC CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	0.1	2	0.5
<b>DUPLICATES</b>					
ORIGINAL		4.2	102.0	91	103.5
DUP		4.3	107.0	90	105.5
Target Range - Lower Bound		3.8	99.2	84	96.2
Upper Bound		4.7	110.0	97	113.0

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**QC CERTIFICATE OF ANALYSIS BU22069258**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>ACCREDITATION COMMENTS</b>								
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
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 BAG-21								
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23								
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61								
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">BAG-01</td> <td style="width: 25%;">CRU-21</td> <td style="width: 25%;">LEV-01</td> <td style="width: 25%;">LOG-22</td> </tr> <tr> <td>PUL-23</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	BAG-01	CRU-21	LEV-01	LOG-22	PUL-23	PUL-QC	SPL-21	WEI-21
BAG-01	CRU-21	LEV-01	LOG-22						
PUL-23	PUL-QC	SPL-21	WEI-21						



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 This copy reported on 8-JUL-2022  
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**QC CERTIFICATE BU22073881**

Project: Panama Project

This report is for 157 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 25-MAR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22073881**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				65.6	4.51	572	420	1.66	5.16	1.83	18.70	43.8	755	55	6.46	8220
EMOG-17				69.4	4.66	598	270	1.82	5.77	1.88	21.5	48.6	772	53	7.52	8420
EMOG-17				66.0	4.55	580	730	1.53	5.93	1.90	18.70	44.2	741	53	7.23	8350
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			99.1													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.61	6.91	54.8	1070	1.36	1.00	3.64	1.63	100.5	24.5	139	3.50	3550
GBM321-8				2.92	7.03	61.4	1100	1.52	1.26	3.75	1.87	110.5	26.6	139	3.88	3660
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1		0.027														
GLG313-1		0.038														
GLG313-1		0.030														
GLG313-1		0.031														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.58														
KIP-19		2.48														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MGeo08				4.06	7.60	32.9	1090	3.25	0.61	2.60	2.16	72.4	18.6	93	11.80	633
MGeo08				4.39	7.67	35.9	1100	3.51	0.63	2.64	2.34	77.5	20.1	94	12.45	632
MGeo08				4.26	7.47	36.2	1090	3.58	0.63	2.65	2.26	71.9	19.0	91	12.40	612
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675
OREAS 152a				0.62	6.66	31.0	80	0.43	0.12	1.44	0.19	6.66	10.5	18	0.47	3770
OREAS 152a				0.66	7.38	33.9	80	0.42	0.13	1.48	0.24	7.93	11.1	18	0.59	3810
Target Range - Lower Bound				0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610
Upper Bound				0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150
OREAS 237		2.28														
OREAS 237		2.18														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.255														
OREAS 253		1.225														



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22073881**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		4.66	11.40	0.11	1.7	0.848	1.62	22.3	26.3	0.91	712	1075	1.10	13.2	7490	800
EMOG-17		4.75	13.15	0.43	1.9	0.934	1.68	24.3	28.1	0.94	731	1110	1.12	14.9	7700	840
EMOG-17		4.74	11.05	0.10	1.7	0.842	1.62	21.9	21.3	0.94	726	1110	1.08	13.2	7570	780
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.29	19.10	0.11	3.4	0.083	2.08	52.7	10.0	1.78	770	57.8	2.17	9.9	2220	970
GBM321-8		5.41	20.6	0.37	3.5	0.054	2.14	57.8	11.5	1.84	797	63.6	2.22	10.4	2270	1020
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		3.85	18.20	0.11	3.0	0.171	3.15	36.2	31.4	1.33	557	14.30	2.02	19.4	708	1060
MRGeo08		3.90	19.10	0.30	3.0	0.177	3.20	39.3	36.2	1.35	557	15.65	2.03	20.9	709	1090
MRGeo08		3.98	19.90	0.35	3.1	0.166	3.20	35.5	35.1	1.31	548	15.50	1.99	20.9	693	1050
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160
OREAS 152a		3.42	16.70	0.14	<0.1	0.030	1.34	2.6	6.2	1.92	281	75.2	2.26	0.8	10.2	600
OREAS 152a		3.47	17.65	0.31	0.1	0.029	1.37	3.0	6.3	1.98	284	79.0	2.27	0.9	10.9	620
Target Range - Lower Bound		3.37	16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550
Upper Bound		4.14	20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																



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**QC CERTIFICATE OF ANALYSIS BU22073881**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		7150	103.0	0.286	3.21	793	7.5	6	2.5	199.5	0.82	1.27	10.85	0.318	1.90	2.9
EMOG-17		7310	114.5	0.326	3.36	833	8.3	7	2.7	205	0.95	1.51	11.30	0.326	2.23	3.2
EMOG-17		7300	102.5	0.291	3.14	790	6.8	6	2.5	200	0.86	1.38	10.60	0.320	2.00	3.1
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		2010	157.0	<0.002	0.44	1.62	17.5	<1	3.0	291	0.64	<0.05	17.00	0.657	1.14	2.1
GBM321-8		2090	172.5	<0.002	0.45	1.70	18.8	1	3.1	294	0.73	0.05	16.55	0.668	1.25	2.1
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1085	190.5	0.008	0.32	4.21	11.5	1	3.8	312	1.39	<0.05	19.40	0.501	1.02	5.2
MRGeo08		1095	208	0.007	0.32	4.69	12.6	1	3.7	311	1.49	<0.05	20.3	0.508	1.11	5.5
MRGeo08		1085	184.5	0.008	0.31	4.72	12.4	1	4.0	306	1.43	<0.05	19.15	0.490	1.12	5.3
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2
OREAS 152a		5.1	13.0	0.261	0.90	1.30	17.2	8	1.4	104.0	0.05	0.17	0.18	0.318	0.19	0.1
OREAS 152a		5.5	16.4	0.285	0.92	1.48	21.8	8	1.4	112.5	0.06	0.17	0.24	0.323	0.20	0.1
Target Range - Lower Bound		5.0	19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1
Upper Bound		7.7	24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
EMOG-17		69	3.8	14.7	7510	64.9
EMOG-17		73	4.1	16.0	7670	64.6
EMOG-17		71	3.6	14.4	7540	60.9
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		137	2.7	35.8	1060	134.0
GBM321-8		141	3.2	37.3	1100	136.5
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
MGeo08		108	4.4	26.1	817	105.5
MGeo08		109	4.8	27.6	815	110.0
MGeo08		109	4.7	25.0	801	107.0
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0
OREAS 152a		292	3.4	7.7	83	1.5
OREAS 152a		294	3.8	9.6	84	1.7
Target Range - Lower Bound		269	3.4	9.7	76	0.8
Upper Bound		331	4.8	12.1	98	3.2
OREAS 237						
OREAS 237						
Target Range - Lower Bound						
Upper Bound						
OREAS 253						
OREAS 253						

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**QC CERTIFICATE OF ANALYSIS BU22073881**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>STANDARDS</b>																	
Target Range - Lower Bound		1.140															
Upper Bound		1.300															
OREAS 507				1.40	7.33	47.7	1070	2.74	1.78	1.73	0.67	64.2	8.0	47	11.05	6280	
Target Range - Lower Bound				1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780	
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660	
OXP172			14.90														
Target Range - Lower Bound			14.10														
Upper Bound			16.00														
TAZ-20		0.306															
TAZ-20		0.307															
Target Range - Lower Bound		0.279															
Upper Bound		0.325															
<b>BLANKS</b>																	
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
BLANK			<0.05														
Target Range - Lower Bound			<0.05														
Upper Bound			0.10														
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.3	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	





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**QC CERTIFICATE OF ANALYSIS BU22073881**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		37.4	157.0	0.078	0.72	5.43	8.2	4	4.9	216	1.00	0.70	13.25	0.356	0.83	3.8
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6
OXP172																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
<b>STANDARDS</b>						
Target Range - Lower Bound						
Upper Bound						
OREAS 507		64	8.8	14.6	161	65.7
Target Range - Lower Bound		58	7.8	13.9	143	53.9
Upper Bound		73	10.8	17.2	179	74.1
OXP172						
Target Range - Lower Bound						
Upper Bound						
TAZ-20						
TAZ-20						
Target Range - Lower Bound						
Upper Bound						
<b>BLANKS</b>						
BLANK						
BLANK						
BLANK						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
ORIGINAL				0.03	0.07	0.4	60	<0.05	0.05	0.04	<0.02	10.55	0.3	4	<0.05	1.8
DUP				0.03	0.07	0.4	70	<0.05	0.05	0.04	<0.02	10.80	0.3	4	<0.05	1.3
Target Range - Lower Bound				0.02	0.06	<0.2	50	<0.05	0.04	0.03	<0.02	10.15	0.2	3	<0.05	1.3
Upper Bound				0.04	0.08	0.6	80	0.10	0.06	0.05	0.04	11.20	0.4	5	0.10	1.8
ORIGINAL				18.60	0.86	9.3	30	1.06	<0.01	0.04	0.07	0.09	0.3	23	3.97	3.8
DUP				17.40	0.86	8.4	30	0.74	<0.01	0.04	0.06	0.25	0.2	22	3.92	3.6
Target Range - Lower Bound				17.10	0.81	8.2	20	0.81	<0.01	0.03	0.04	0.15	<0.1	20	3.70	3.4
Upper Bound				18.90	0.91	9.5	40	1.00	0.02	0.05	0.09	0.19	0.4	25	4.19	4.0
TRD000308		<0.005														
DUP		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000328		0.013														
DUP		0.021														
Target Range - Lower Bound		0.011														
Upper Bound		0.023														
TRD000348		0.008														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000584				0.07	6.95	12.2	450	2.59	0.82	0.01	0.02	91.7	2.2	69	3.67	33.2
DUP				0.08	6.67	12.2	430	2.53	0.82	0.01	<0.02	90.2	2.1	66	3.64	32.9
Target Range - Lower Bound				0.06	6.46	11.4	400	2.38	0.77	<0.01	<0.02	86.4	1.9	63	3.42	31.7
Upper Bound				0.09	7.16	13.0	480	2.74	0.87	0.02	0.04	95.5	2.4	72	3.89	34.4
TRD000595		0.009														
DUP		0.010														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000603				0.03	8.09	4.9	550	2.55	0.19	<0.01	0.05	94.9	12.3	68	5.39	24.3
DUP				0.03	8.04	5.8	540	2.66	0.20	0.01	0.03	90.9	12.4	68	5.51	24.8
Target Range - Lower Bound				0.02	7.65	4.9	490	2.42	0.18	<0.01	<0.02	88.2	11.6	64	5.13	23.5
Upper Bound				0.04	8.48	5.8	600	2.79	0.21	0.02	0.06	97.6	13.1	72	5.77	25.6



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
ORIGINAL		0.48	0.19	<0.05	<0.1	<0.005	0.01	5.6	0.7	0.02	57	0.21	0.01	0.1	1.3	20
DUP		0.51	0.21	<0.05	<0.1	0.005	0.01	5.8	0.8	0.02	59	0.21	0.01	0.2	1.5	20
Target Range - Lower Bound		0.46	0.14	<0.05	<0.1	<0.005	<0.01	4.9	0.5	<0.01	50	0.15	<0.01	<0.1	1.1	<10
Upper Bound		0.53	0.26	0.10	0.2	0.010	0.02	6.5	1.0	0.03	66	0.27	0.02	0.2	1.7	30
ORIGINAL		0.83	2.46	<0.05	<0.1	<0.005	0.81	<0.5	111.5	0.01	106	3.43	0.02	0.7	1.5	<10
DUP		0.84	2.24	<0.05	<0.1	<0.005	0.80	<0.5	72.7	0.01	105	3.12	0.02	0.6	1.4	<10
Target Range - Lower Bound		0.78	2.18	<0.05	<0.1	<0.005	0.75	<0.5	87.3	<0.01	95	3.06	<0.01	0.5	1.2	<10
Upper Bound		0.89	2.52	0.10	0.2	0.010	0.86	1.0	96.9	0.02	116	3.49	0.03	0.8	1.7	20
TRD000308																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000328																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000348																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000584		3.67	16.90	0.10	3.3	0.054	2.27	39.8	11.8	0.21	96	0.64	0.09	13.8	13.3	200
DUP		3.53	16.70	0.08	3.3	0.056	2.19	38.8	12.0	0.20	93	0.66	0.09	13.4	13.8	180
Target Range - Lower Bound		3.41	15.90	<0.05	3.0	0.047	2.11	36.8	11.1	0.18	85	0.57	0.08	12.8	12.7	170
Upper Bound		3.79	17.70	0.10	3.6	0.063	2.35	41.8	12.7	0.23	104	0.73	0.10	14.4	14.4	210
TRD000595																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000603		3.63	20.8	0.13	3.0	0.066	2.80	58.3	34.2	1.03	682	0.51	0.10	14.2	35.2	100
DUP		3.57	21.2	0.14	3.2	0.072	2.75	57.7	35.1	1.02	679	0.52	0.10	14.9	35.5	100
Target Range - Lower Bound		3.41	19.90	0.07	2.8	0.061	2.63	54.6	32.7	0.96	641	0.44	0.09	13.7	33.4	90
Upper Bound		3.79	22.1	0.20	3.4	0.077	2.92	61.4	36.6	1.09	720	0.59	0.12	15.4	37.3	120



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
ORIGINAL		4.3	0.3	<0.002	0.01	0.19	0.1	<1	<0.2	4.9	<0.05	<0.05	0.19	0.005	<0.02	<0.1
DUP		4.7	0.4	<0.002	0.01	0.21	0.1	<1	<0.2	5.2	<0.05	<0.05	0.20	0.005	<0.02	<0.1
Target Range - Lower Bound		3.8	0.2	<0.002	<0.01	0.14	<0.1	<1	<0.2	4.6	<0.05	<0.05	0.18	<0.005	<0.02	<0.1
Upper Bound		5.2	0.5	0.004	0.02	0.27	0.2	2	0.4	5.5	0.10	0.10	0.21	0.010	0.04	0.2
ORIGINAL		4.0	41.3	<0.002	0.02	21.1	<0.1	1	1.6	23.2	<0.05	0.90	0.02	<0.005	0.63	<0.1
DUP		3.9	36.9	<0.002	0.02	17.60	<0.1	<1	1.5	20.7	<0.05	0.89	0.03	<0.005	0.63	<0.1
Target Range - Lower Bound		3.3	37.0	<0.002	<0.01	17.85	<0.1	<1	1.3	20.7	<0.05	0.80	<0.01	<0.005	0.56	<0.1
Upper Bound		4.6	41.2	0.004	0.03	20.9	0.2	2	1.8	23.2	0.10	0.99	0.04	0.010	0.70	0.2
TRD000308																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000328																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000348																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000584		25.9	111.0	<0.002	0.02	2.83	12.7	1	3.3	25.5	1.04	0.23	19.55	0.387	0.47	2.9
DUP		26.2	111.5	<0.002	0.02	2.82	12.7	<1	3.3	25.4	1.02	0.20	18.90	0.373	0.49	2.9
Target Range - Lower Bound		24.2	105.5	<0.002	<0.01	2.56	12.0	<1	2.9	24.0	0.93	0.15	18.25	0.356	0.42	2.7
Upper Bound		27.9	117.0	0.004	0.03	3.09	13.4	2	3.7	26.9	1.13	0.28	20.2	0.404	0.54	3.1
TRD000595																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000603		9.8	135.5	<0.002	0.01	0.49	14.3	<1	4.0	32.1	1.07	0.05	17.45	0.433	0.59	2.4
DUP		10.3	138.0	<0.002	0.01	1.24	14.5	<1	4.1	33.4	1.11	0.05	17.70	0.430	0.63	2.5
Target Range - Lower Bound		9.0	130.0	<0.002	<0.01	0.75	13.6	<1	3.6	30.9	0.99	<0.05	16.70	0.405	0.54	2.2
Upper Bound		11.1	143.5	0.004	0.02	0.98	15.2	2	4.5	34.6	1.19	0.10	18.45	0.458	0.68	2.7



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
ORIGINAL		1	0.1	0.4	<2	1.0
DUP		1	0.1	0.5	<2	1.3
Target Range - Lower Bound		<1	<0.1	0.3	<2	0.6
Upper Bound		2	0.2	0.6	4	1.7
ORIGINAL		1	0.3	0.1	24	<0.5
DUP		2	0.3	0.1	24	<0.5
Target Range - Lower Bound		<1	0.2	<0.1	21	<0.5
Upper Bound		2	0.4	0.2	27	1.0
TRD000308						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000328						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000348						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000584		84	5.5	18.9	42	118.0
DUP		82	5.5	20.0	41	118.5
Target Range - Lower Bound		78	5.0	18.4	37	109.0
Upper Bound		88	6.0	20.5	46	127.5
TRD000595						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000603		95	3.0	35.8	141	113.0
DUP		94	3.0	35.2	140	117.5
Target Range - Lower Bound		89	2.7	33.6	131	106.0
Upper Bound		100	3.3	37.4	150	124.5



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD000615		0.005														
DUP		0.007														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000618				<0.01	0.17	2.1	10	0.08	0.01	0.01	<0.02	3.11	0.9	13	0.17	6.5
DUP				<0.01	0.16	1.8	10	0.09	0.02	0.01	<0.02	3.17	0.8	13	0.17	6.2
Target Range - Lower Bound				<0.01	0.15	1.7	<10	<0.05	<0.01	<0.01	<0.02	2.97	0.7	11	0.11	5.9
Upper Bound				0.02	0.18	2.2	20	0.10	0.02	0.02	0.04	3.31	1.0	15	0.23	6.8
TRD000635		0.013														
DUP		0.015														
Target Range - Lower Bound		0.008														
Upper Bound		0.020														
TRD000637				0.03	7.43	0.8	530	3.02	0.23	0.02	0.02	87.8	15.8	63	9.84	20.8
DUP				0.03	7.36	0.8	530	2.85	0.26	0.02	0.02	87.5	15.4	61	10.00	20.6
Target Range - Lower Bound				0.02	7.02	0.6	480	2.74	0.22	<0.01	<0.02	83.3	14.7	58	9.37	19.8
Upper Bound				0.04	7.77	1.0	580	3.13	0.27	0.03	0.04	92.0	16.5	66	10.45	21.6
TRD000652				0.02	7.96	0.8	580	2.87	0.17	0.08	0.02	90.7	15.2	68	9.10	30.4
DUP				0.02	7.92	0.8	570	2.85	0.19	0.08	<0.02	87.9	15.5	68	8.98	31.3
Target Range - Lower Bound				<0.01	7.53	0.6	520	2.67	0.16	0.07	<0.02	84.8	14.5	64	8.54	29.6
Upper Bound				0.03	8.35	1.0	630	3.05	0.20	0.09	0.04	93.8	16.2	72	9.54	32.1
TRD000672				0.05	8.15	1.3	220	0.74	0.04	6.55	0.08	29.8	40.2	5	1.59	124.5
DUP				0.05	7.74	1.2	210	0.71	0.03	6.23	0.09	28.1	37.3	5	1.44	118.0
Target Range - Lower Bound				0.04	7.54	1.0	190	0.64	0.02	6.06	0.06	27.5	36.7	4	1.39	117.0
Upper Bound				0.06	8.35	1.5	240	0.81	0.05	6.72	0.11	30.4	40.8	6	1.64	125.5
TRD000673		0.024														
DUP		0.020														
Target Range - Lower Bound		0.016														
Upper Bound		0.028														
TRD000687				0.18	5.11	63.1	390	1.74	0.47	0.01	<0.02	56.5	2.3	50	2.97	29.7
DUP				0.08	4.91	62.2	380	1.65	0.28	0.02	<0.02	55.6	2.3	48	2.86	28.9
Target Range - Lower Bound				0.11	4.75	59.3	350	1.56	0.35	<0.01	<0.02	53.2	2.1	46	2.72	28.1
Upper Bound				0.15	5.27	66.0	420	1.83	0.40	0.02	0.04	58.9	2.5	52	3.11	30.5



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000615 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000618 DUP		2.26	0.61	<0.05	0.3	<0.005	0.04	1.6	14.2	0.01	250	1.08	0.01	1.1	4.6	10
Target Range - Lower Bound		2.16	0.64	<0.05	0.2	<0.005	0.04	1.6	14.8	0.01	243	0.98	0.01	1.0	4.6	10
Upper Bound		2.09	0.54	<0.05	<0.1	<0.005	0.03	1.0	13.6	<0.01	229	0.93	<0.01	0.9	4.2	<10
TRD000635 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000637 DUP		4.09	20.4	0.30	3.1	0.065	3.01	43.6	48.2	1.54	1245	0.44	0.14	14.2	36.0	90
Target Range - Lower Bound		4.05	20.4	0.30	3.1	0.064	2.99	41.8	46.0	1.52	1235	0.45	0.14	14.4	36.2	90
Upper Bound		3.86	19.35	0.23	2.8	0.056	2.84	40.1	44.5	1.44	1175	0.37	0.12	13.5	34.1	80
TRD000652 DUP		4.00	22.0	0.30	3.1	0.059	3.12	43.9	43.8	1.38	835	0.36	0.37	14.9	37.6	420
Target Range - Lower Bound		3.96	21.9	0.32	3.2	0.065	3.11	43.1	43.3	1.37	833	0.42	0.37	15.4	38.3	420
Upper Bound		3.77	20.8	0.24	2.9	0.054	2.95	40.8	41.2	1.30	787	0.32	0.34	14.3	35.9	390
TRD000672 DUP		7.23	17.25	0.38	3.0	0.055	0.83	14.1	11.5	2.57	1275	0.45	1.50	5.6	43.3	460
Target Range - Lower Bound		6.93	16.95	0.53	2.8	0.049	0.78	13.3	11.1	2.43	1215	0.41	1.45	5.2	40.2	430
Upper Bound		6.72	16.20	0.37	2.7	0.044	0.75	12.5	10.5	2.37	1180	0.36	1.39	5.0	39.5	410
TRD000673 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000687 DUP		2.43	13.40	0.24	3.0	0.045	1.40	27.6	6.8	0.13	80	0.46	0.06	10.6	11.2	160
Target Range - Lower Bound		2.36	13.10	0.39	2.7	0.036	1.35	27.0	6.3	0.12	78	0.49	0.06	10.4	10.3	150
Upper Bound		2.27	12.55	0.24	2.6	0.033	1.30	25.4	6.0	0.11	70	0.40	0.05	9.9	10.0	140



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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000615 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000618 DUP		0.8	2.2	<0.002	0.01	0.85	0.3	<1	0.5	1.1	0.08	<0.05	0.78	0.034	<0.02	0.2
Target Range - Lower Bound		0.7	2.1	<0.002	0.01	0.75	0.3	<1	0.6	1.0	0.07	<0.05	0.84	0.033	<0.02	0.2
Upper Bound		<0.5	1.9	<0.002	<0.01	0.69	0.2	<1	0.3	0.8	<0.05	<0.05	0.76	0.027	<0.02	<0.1
TRD000635 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000637 DUP		12.2	201	<0.002	0.02	0.57	13.3	<1	3.7	34.5	1.07	<0.05	16.20	0.399	1.02	2.4
Target Range - Lower Bound		12.8	203	<0.002	0.02	0.63	13.6	<1	3.8	34.1	1.07	<0.05	16.50	0.398	1.05	2.6
Upper Bound		11.4	192.0	<0.002	<0.01	0.51	12.7	<1	3.4	32.4	0.97	<0.05	15.50	0.374	0.94	2.3
TRD000652 DUP		9.7	190.5	<0.002	0.02	0.41	14.4	<1	3.7	35.9	1.17	<0.05	16.95	0.427	0.93	2.6
Target Range - Lower Bound		9.7	192.0	<0.002	0.02	0.41	14.2	<1	3.9	37.1	1.17	<0.05	16.75	0.425	0.96	2.6
Upper Bound		8.7	181.5	<0.002	<0.01	0.33	13.5	<1	3.4	34.5	1.06	<0.05	16.00	0.400	0.85	2.4
TRD000672 DUP		6.2	35.0	<0.002	0.04	0.14	41.2	1	1.2	148.0	0.37	<0.05	3.89	0.424	0.19	1.0
Target Range - Lower Bound		6.1	27.0	<0.002	0.04	0.16	37.9	<1	1.0	141.0	0.36	<0.05	3.68	0.410	0.21	0.9
Upper Bound		5.3	29.4	<0.002	0.03	0.09	37.5	<1	0.8	137.0	0.30	<0.05	3.59	0.391	0.17	0.8
TRD000673 DUP		7.0	32.7	0.004	0.05	0.21	41.6	2	1.4	152.0	0.43	0.10	3.98	0.443	0.24	1.1
TRD000687 DUP		13.9	77.7	<0.002	0.02	0.92	8.4	<1	3.0	37.2	0.84	0.07	13.35	0.308	0.31	2.6
Target Range - Lower Bound		13.4	75.1	<0.002	0.02	0.87	8.2	<1	3.0	36.1	0.83	0.07	12.90	0.296	0.31	2.5
Upper Bound		12.5	72.5	<0.002	<0.01	0.78	7.8	<1	2.7	34.6	0.74	<0.05	12.45	0.282	0.27	2.3
		14.8	80.3	0.004	0.03	1.01	8.8	2	3.4	38.7	0.93	0.10	13.80	0.322	0.35	2.8



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000615 DUP Target Range - Lower Bound Upper Bound						
TRD000618 DUP Target Range - Lower Bound Upper Bound		3 3 2 4	0.2 0.2 <0.1 0.3	1.2 1.1 1.0 1.3	6 6 4 8	9.8 8.8 8.1 10.5
TRD000635 DUP Target Range - Lower Bound Upper Bound						
TRD000637 DUP Target Range - Lower Bound Upper Bound		86 86 81 91	3.4 3.2 3.0 3.6	22.8 23.4 21.8 24.4	103 103 96 110	115.5 116.5 107.0 125.0
TRD000652 DUP Target Range - Lower Bound Upper Bound		91 90 85 96	3.1 3.2 2.8 3.5	24.8 24.6 23.4 26.0	104 103 96 111	115.0 116.5 106.5 125.0
TRD000672 DUP Target Range - Lower Bound Upper Bound		226 217 209 234	0.5 0.5 0.4 0.6	24.3 22.4 22.1 24.6	89 86 81 94	112.0 106.0 100.5 117.5
TRD000673 DUP Target Range - Lower Bound Upper Bound						
TRD000687 DUP Target Range - Lower Bound Upper Bound		55 53 50 58	7.1 6.9 6.4 7.6	13.3 12.5 12.2 13.6	57 55 51 61	100.0 95.6 90.0 105.5



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**QC CERTIFICATE OF ANALYSIS BU22073881**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD000693		0.016															
DUP		0.016															
Target Range - Lower Bound		0.010															
Upper Bound		0.022															
TRD000706				0.04	6.13	7.8	490	2.21	0.27	0.01	0.03	87.3	10.0	56	5.84	22.6	
DUP				0.05	6.05	7.7	490	2.12	0.25	0.01	0.03	84.8	10.0	55	5.71	22.6	
Target Range - Lower Bound				0.03	5.78	7.2	440	2.01	0.24	<0.01	<0.02	81.7	9.4	52	5.44	21.6	
Upper Bound				0.06	6.40	8.3	540	2.32	0.28	0.02	0.04	90.4	10.6	59	6.11	23.6	
TRD000721				0.01	0.22	1.6	10	0.10	0.02	0.01	<0.02	3.78	1.2	17	0.23	8.2	
DUP				0.01	0.21	2.0	10	0.09	0.02	0.01	<0.02	3.69	1.2	17	0.23	7.8	
Target Range - Lower Bound				<0.01	0.19	1.5	<10	<0.05	<0.01	<0.01	<0.02	3.54	1.0	15	0.17	7.5	
Upper Bound				0.02	0.24	2.1	20	0.10	0.03	0.02	0.04	3.93	1.4	19	0.29	8.5	
TRD000749		0.025															
DUP		0.019															
Target Range - Lower Bound		0.016															
Upper Bound		0.028															
TRD000769		0.005															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD000789		<0.005															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
ORIGINAL			181.5														
DUP			180.5														
Target Range - Lower Bound			172.0														
Upper Bound			190.0														
ORIGINAL				0.08	7.33	35.6	230	1.26	0.50	0.01	0.02	101.5	4.9	65	11.25	36.0	
DUP				0.08	7.30	34.9	230	0.91	0.50	0.02	<0.02	107.0	4.7	63	11.65	35.7	
Target Range - Lower Bound				0.07	6.94	33.3	200	0.98	0.47	<0.01	<0.02	99.0	4.5	60	10.85	34.4	
Upper Bound				0.09	7.69	37.2	260	1.19	0.54	0.02	0.04	109.5	5.1	68	12.05	37.3	



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000693 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000706 DUP		2.67	16.75	0.26	3.1	0.054	2.19	42.5	21.7	0.52	225	0.82	0.09	12.6	25.7	140
Target Range - Lower Bound		2.63	16.60	0.33	3.1	0.058	2.14	41.8	20.8	0.51	223	0.84	0.09	12.6	25.3	130
Upper Bound		2.51	15.80	0.22	2.8	0.048	2.05	39.5	20.0	0.48	208	0.74	0.08	11.9	24.0	120
TRD000721 DUP		2.07	0.88	0.19	0.3	<0.005	0.06	1.8	14.7	0.02	213	1.55	0.02	2.0	6.3	20
Target Range - Lower Bound		2.11	0.83	0.16	0.3	<0.005	0.06	1.8	14.5	0.02	212	1.60	0.01	2.0	6.1	10
Upper Bound		1.98	0.76	0.11	0.2	<0.005	0.05	1.2	13.7	<0.01	197	1.45	<0.01	1.8	5.7	<10
TRD000749 DUP		2.20	0.95	0.24	0.4	0.010	0.07	2.4	15.5	0.03	228	1.70	0.02	2.2	6.7	20
TRD000769 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000789 DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP		3.67	18.05	0.08	2.4	0.063	2.18	35.5	15.4	0.33	100	0.96	0.03	10.9	14.0	270
Target Range - Lower Bound		3.65	17.40	0.07	2.4	0.071	2.15	36.7	11.4	0.33	96	0.93	0.03	10.8	13.6	270
Upper Bound		3.47	16.80	<0.05	2.2	0.059	2.05	33.8	12.5	0.30	88	0.85	0.02	10.2	12.9	250
Upper Bound		3.85	18.65	0.10	2.6	0.075	2.28	38.4	14.3	0.36	108	1.04	0.04	11.5	14.7	290



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000693 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000706 DUP		12.2	114.0	<0.002	0.02	0.52	10.4	<1	3.0	44.4	0.94	0.05	14.55	0.346	0.56	2.3
Target Range - Lower Bound		11.6	113.0	<0.002	0.02	0.61	10.4	<1	3.1	43.9	0.92	<0.05	13.65	0.341	0.52	2.2
Upper Bound		10.8	107.5	<0.002	<0.01	0.47	9.8	<1	2.7	41.7	0.83	<0.05	13.40	0.321	0.48	2.0
TRD000721 DUP		1.6	3.2	<0.002	0.02	0.31	0.4	<1	0.8	1.3	0.09	<0.05	0.98	0.037	0.03	0.2
Target Range - Lower Bound		1.1	3.1	<0.002	0.01	0.54	0.4	<1	0.7	1.2	0.08	<0.05	0.99	0.036	0.02	0.2
Upper Bound		0.8	2.9	<0.002	<0.01	0.34	0.3	<1	0.5	1.0	<0.05	<0.05	0.93	0.030	<0.02	<0.1
TRD000749 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000769 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000789 DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP		70.0	160.5	<0.002	0.02	2.40	15.6	1	3.4	27.9	0.81	<0.05	18.85	0.381	0.77	3.0
Target Range - Lower Bound		72.5	160.5	<0.002	0.02	2.40	13.0	<1	3.2	27.5	0.82	<0.05	19.55	0.377	0.80	3.1
Upper Bound		67.2	152.5	<0.002	<0.01	2.17	13.5	<1	2.9	26.1	0.72	<0.05	18.25	0.355	0.71	2.8
Target Range - Lower Bound		75.3	168.5	0.004	0.03	2.63	15.1	2	3.7	29.3	0.91	0.10	20.2	0.403	0.86	3.3



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**QC CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000693 DUP Target Range - Lower Bound Upper Bound						
TRD000706 DUP Target Range - Lower Bound Upper Bound		67 66 62 71	3.1 3.1 2.8 3.4	24.0 24.2 22.8 25.4	94 92 86 100	110.5 111.0 102.0 119.5
TRD000721 DUP Target Range - Lower Bound Upper Bound		5 5 4 6	0.3 0.3 0.2 0.4	1.3 1.3 1.1 1.5	14 14 11 17	10.8 10.5 9.4 11.9
TRD000749 DUP Target Range - Lower Bound Upper Bound						
TRD000769 DUP Target Range - Lower Bound Upper Bound						
TRD000789 DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound		113 113 106 120	1.6 1.6 1.4 1.8	15.6 16.0 14.9 16.7	59 59 54 64	93.1 94.7 86.4 101.5



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<b>QC CERTIFICATE OF ANALYSIS BU22073881</b>
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	<b>CERTIFICATE COMMENTS</b>
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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**QC CERTIFICATE BU22077763**

Project: Panama Project

This report is for 155 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 29-MAR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>STANDARDS</b>																
EMOG-17			67.4	4.53	566	520	1.84	5.50	1.86	19.35	46.7	730	54	7.11	8070	4.72
Target Range - Lower Bound			60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42
Upper Bound			74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42
GBM321-8			2.82	7.06	58.7	1120	1.35	1.73	3.80	1.72	106.5	25.7	144	3.80	3580	5.63
GBM321-8			2.71	7.19	59.0	1120	1.42	1.26	3.81	1.71	101.0	25.3	144	3.60	3610	5.58
GBM321-8			3.14	7.61	67.6	1200	1.40	1.56	4.06	2.19	121.0	28.0	154	4.17	3870	5.97
Target Range - Lower Bound			2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380	4.98
Upper Bound			3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890	6.10
GLG313-1		0.030														
GLG313-1		0.031														
GLG313-1		0.032														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.48														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MRGeo08			4.11	7.60	34.3	1100	3.00	0.64	2.64	2.21	80.6	19.2	84	12.80	624	3.96
MRGeo08			4.28	7.52	35.4	1090	3.28	0.62	2.60	2.24	71.5	19.4	90	11.80	611	3.88
MRGeo08			4.22	7.41	36.3	1070	2.85	0.65	2.57	2.39	73.2	19.0	89	12.70	609	3.82
Target Range - Lower Bound			3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55
Upper Bound			4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37
OREAS 152a			0.78	8.18	35.0	80	0.45	0.13	1.58	0.21	10.55	11.5	18	0.67	3880	3.72
OREAS 152a			0.69	8.08	35.7	80	0.45	0.13	1.55	0.22	10.35	11.0	19	0.69	3790	3.64
Target Range - Lower Bound			0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610	3.37
Upper Bound			0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150	4.14
OREAS 237		2.18														
OREAS 237		2.32														
OREAS 237		2.27														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.225														
OREAS 253		1.215														
OREAS 253		1.255														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
OREAS 262		0.107														
Target Range - Lower Bound		0.088														
Upper Bound		0.110														
TAZ-20		0.307														
Target Range - Lower Bound		0.279														



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Upper Bound Analyte Units LOD	0.325
Sample Description	



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>STANDARDS</b>																
EMOG-17		11.65	0.11	1.8	0.824	1.60	23.4	24.6	0.93	726	1055	1.06	14.1	7470	770	7110
Target Range - Lower Bound		10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570
Upper Bound		13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030
GBM321-8		18.90	0.21	3.5	0.079	2.11	54.2	10.1	1.80	798	64.4	2.11	10.6	2290	970	2070
GBM321-8		19.50	0.12	3.5	0.075	2.12	53.0	9.5	1.82	807	62.9	2.14	10.1	2230	980	2080
GBM321-8		23.6	0.46	3.9	0.081	2.29	60.9	11.2	1.96	864	71.4	2.35	11.6	2540	1050	2240
Target Range - Lower Bound		18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020		1845
Upper Bound		22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480		2250
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		17.80	0.15	2.9	0.180	3.16	39.9	30.1	1.34	560	14.65	1.95	20.8	702	1020	1075
MRGeo08		17.90	0.09	3.1	0.165	3.12	35.2	30.4	1.32	551	14.90	1.96	20.9	696	1020	1070
MRGeo08		19.05	0.41	3.1	0.185	3.09	36.8	31.8	1.31	547	15.20	1.96	20.7	689	1000	1055
Target Range - Lower Bound		17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971
Upper Bound		21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185
OREAS 152a		17.10	0.07	0.1	0.031	1.42	4.1	6.3	2.12	295	81.0	2.28	0.9	11.8	610	5.5
OREAS 152a		18.60	0.43	0.1	0.036	1.40	4.2	6.1	2.08	289	81.4	2.24	1.0	10.8	600	5.8
Target Range - Lower Bound		16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550	5.0
Upper Bound		20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690	7.7
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																
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Upper Bound																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Sample Description Analyte Units LOD Upper Bound	



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>STANDARDS</b>																
EMOG-17		104.5	0.294	3.06	771	7.7	7	2.6	197.0	0.90	1.37	10.90	0.316	2.03	3.1	68
Target Range - Lower Bound		98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67
Upper Bound		121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84
GBM321-8		160.5	<0.002	0.33	1.74	17.4	<1	3.1	293	0.72	0.06	18.50	0.663	1.14	2.1	139
GBM321-8		165.5	<0.002	0.32	1.74	17.3	<1	3.1	291	0.70	0.05	17.15	0.670	1.21	2.1	142
GBM321-8		179.5	<0.002	0.37	2.10	22.8	2	3.5	312	0.79	0.06	18.55	0.727	1.39	2.3	150
Target Range - Lower Bound		153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0	123
Upper Bound		187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6	153
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MGeo08		199.0	0.008	0.29	4.42	11.5	1	3.9	309	1.43	<0.05	21.8	0.492	0.98	5.4	109
MGeo08		206	0.007	0.28	4.60	11.7	1	4.0	302	1.47	<0.05	20.1	0.495	0.98	5.4	107
MGeo08		195.0	0.009	0.30	4.56	12.8	2	3.8	298	1.44	<0.05	18.90	0.491	1.14	5.2	107
Target Range - Lower Bound		173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97
Upper Bound		212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121
OREAS 152a		25.2	0.284	0.88	1.56	21.8	8	1.5	116.5	0.10	0.21	0.32	0.328	0.18	0.1	302
OREAS 152a		25.6	0.299	0.87	1.58	20.5	8	1.6	116.5	0.06	0.19	0.28	0.333	0.19	0.1	289
Target Range - Lower Bound		19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1	269
Upper Bound		24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3	331
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
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OREAS 262																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
Target Range - Lower Bound																



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Sample Description Analyte Units LOD Upper Bound	



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W	Y	Zn	Zr
		ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5
<b>STANDARDS</b>					
EMOG-17		3.9	15.3	7310	63.7
Target Range - Lower Bound		3.3	14.3	6800	55.6
Upper Bound		4.7	17.7	8320	76.4
GBM321-8		3.1	38.0	1065	135.0
GBM321-8		3.4	36.8	1085	141.0
GBM321-8		3.6	40.7	1165	154.0
Target Range - Lower Bound		2.9	35.2	961	117.5
Upper Bound		4.1	43.2	1180	160.5
GLG313-1					
GLG313-1					
GLG313-1					
Target Range - Lower Bound					
Upper Bound					
KIP-19					
Target Range - Lower Bound					
Upper Bound					
MRGeo08		4.5	27.5	810	101.5
MRGeo08		4.4	27.1	803	109.0
MRGeo08		4.7	26.3	795	113.5
Target Range - Lower Bound		4.1	23.8	722	92.2
Upper Bound		5.8	29.3	886	126.0
OREAS 152a		3.5	10.9	87	1.9
OREAS 152a		4.0	10.9	85	1.7
Target Range - Lower Bound		3.4	9.7	76	0.8
Upper Bound		4.8	12.1	98	3.2
OREAS 237					
OREAS 237					
OREAS 237					
Target Range - Lower Bound					
Upper Bound					
OREAS 253					
OREAS 253					
OREAS 253					
Target Range - Lower Bound					
Upper Bound					
OREAS 262					
Target Range - Lower Bound					
Upper Bound					
TAZ-20					
Target Range - Lower Bound					



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Upper Bound Analyte Units LOD Sample Description	



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	%	ppm	%						
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	0.1	1	<0.05	0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.3	<0.01
BLANK			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2	<0.01
Target Range - Lower Bound			<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01
Upper Bound			0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02
<b>DUPLICATES</b>																
ORIGINAL			0.47	6.22	306	650	0.69	0.03	0.10	<0.02	39.2	2.5	11	5.13	3.1	1.66
DUP			0.46	6.40	307	660	0.61	0.03	0.10	0.02	39.8	2.5	11	5.26	3.2	1.70
Target Range - Lower Bound			0.43	5.98	291	600	0.57	0.02	0.09	<0.02	37.5	2.3	9	4.89	2.8	1.59
Upper Bound			0.50	6.64	322	710	0.73	0.04	0.12	0.04	41.5	2.7	13	5.50	3.5	1.77
TRD000673			0.024													
DUP			0.020													
Target Range - Lower Bound			0.016													
Upper Bound			0.028													
TRD000693			0.016													
DUP			0.016													
Target Range - Lower Bound			0.010													
Upper Bound			0.022													



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>BLANKS</b>																
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	0.008	<0.01	<0.5	<0.2	<0.01	<5	0.05	<0.01	<0.1	0.3	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	0.006	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	0.010	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10	<0.5
BLANK		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10	<0.5
Target Range - Lower Bound		<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5
Upper Bound		0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0
<b>DUPLICATES</b>																
ORIGINAL		12.60	0.30	1.5	0.028	7.35	20.2	43.9	0.17	240	2.37	0.47	5.4	1.0	260	10.6
DUP		12.55	0.27	1.5	0.039	7.50	20.3	41.5	0.17	246	2.54	0.49	5.5	1.6	270	10.9
Target Range - Lower Bound		11.90	0.21	1.3	0.027	7.04	18.7	40.4	0.15	226	2.28	0.45	5.1	1.0	240	9.7
Upper Bound		13.25	0.36	1.7	0.040	7.81	21.8	45.0	0.19	260	2.63	0.51	5.8	1.6	290	11.8
TRD000673																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000693																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
BLANK		<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Target Range - Lower Bound		<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1
Upper Bound		0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2
<b>DUPLICATES</b>																
ORIGINAL		349	<0.002	0.83	6.37	4.7	1	1.3	94.7	0.56	<0.05	11.10	0.130	4.96	2.0	24
DUP		335	<0.002	0.84	6.63	4.7	1	1.4	97.8	0.57	<0.05	11.35	0.133	5.10	2.0	26
Target Range - Lower Bound		325	<0.002	0.78	5.96	4.4	<1	1.1	91.2	0.49	<0.05	10.65	0.120	4.63	1.8	23
Upper Bound		359	0.004	0.89	7.04	5.0	2	1.6	101.5	0.64	0.10	11.80	0.143	5.43	2.2	27
TRD000673																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000693																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22077763**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>BLANKS</b>					
BLANK					
Target Range - Lower Bound					
Upper Bound					
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
BLANK		<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<0.1	<2	<0.5
Upper Bound		0.2	0.2	4	1.0
<b>DUPLICATES</b>					
ORIGINAL		4.5	11.5	29	38.3
DUP		4.8	11.6	29	39.0
Target Range - Lower Bound		4.2	10.9	26	35.3
Upper Bound		5.1	12.2	32	42.0
TRD000673					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000693					
DUP					
Target Range - Lower Bound					
Upper Bound					

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22077763**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000739			0.04	7.71	9.2	610	2.11	0.30	0.01	0.09	91.0	15.4	64	6.61	32.0	3.85
DUP			0.04	7.55	10.0	590	2.19	0.29	0.01	0.08	88.9	14.8	59	6.29	29.2	3.74
Target Range - Lower Bound			0.03	7.24	8.9	550	1.99	0.27	<0.01	0.06	85.4	14.2	57	6.08	29.3	3.60
Upper Bound			0.05	8.02	10.3	660	2.31	0.32	0.02	0.11	94.5	16.0	66	6.82	31.9	3.99
TRD000749		0.025														
DUP		0.019														
Target Range - Lower Bound		0.016														
Upper Bound		0.028														
TRD000754			0.06	7.89	25.5	530	2.45	0.43	0.09	0.07	92.1	23.4	68	7.68	61.7	4.04
DUP			0.07	8.04	29.9	540	2.91	0.48	0.09	0.07	97.9	26.1	67	8.01	67.2	4.12
Target Range - Lower Bound			0.05	7.56	26.1	480	2.50	0.42	0.08	0.05	90.2	23.4	63	7.40	62.0	3.87
Upper Bound			0.08	8.37	29.3	590	2.86	0.49	0.10	0.09	99.8	26.1	72	8.29	66.9	4.29
TRD000769		0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000773			0.02	8.41	11.2	620	2.51	0.54	<0.01	<0.02	56.1	3.7	75	4.95	30.9	3.83
DUP			0.03	8.77	11.1	630	2.34	0.51	<0.01	<0.02	70.2	3.7	74	4.87	30.2	3.84
Target Range - Lower Bound			<0.01	8.15	10.4	570	2.25	0.49	<0.01	<0.02	60.0	3.4	70	4.61	29.3	3.63
Upper Bound			0.04	9.03	11.9	680	2.60	0.56	0.02	0.04	66.3	4.0	79	5.21	31.8	4.04
TRD000788			0.03	8.23	7.4	730	2.64	0.40	<0.01	<0.02	123.5	48.2	72	5.23	40.4	4.07
DUP			0.03	8.56	8.0	730	2.69	0.42	<0.01	0.02	165.0	50.9	68	5.47	41.8	4.09
Target Range - Lower Bound			0.02	7.97	7.1	670	2.48	0.38	<0.01	<0.02	137.0	47.0	66	5.03	39.5	3.87
Upper Bound			0.04	8.82	8.3	790	2.85	0.44	0.02	0.04	151.5	52.1	75	5.67	42.7	4.29
TRD000789		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000807			0.04	8.61	10.5	560	2.60	0.50	0.02	0.02	101.5	17.5	76	9.85	37.8	4.16
DUP			0.05	8.77	10.6	560	2.93	0.52	0.01	0.04	98.4	18.0	76	9.37	39.3	4.21
Target Range - Lower Bound			0.03	8.25	9.8	510	2.58	0.47	<0.01	<0.02	94.9	16.8	71	9.08	37.0	3.97
Upper Bound			0.06	9.13	11.3	610	2.95	0.55	0.02	0.04	105.0	18.7	81	10.15	40.1	4.40



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000739		18.95	0.15	3.1	0.022	2.69	46.0	34.9	1.44	815	0.81	0.09	15.4	37.8	100	13.7
DUP		18.75	0.14	3.0	0.072	2.62	42.9	34.7	1.40	796	0.79	0.09	14.7	36.4	100	13.6
Target Range - Lower Bound		17.85	0.08	2.8	0.040	2.51	41.7	32.9	1.34	760	0.71	0.08	14.2	35.0	90	12.5
Upper Bound		19.85	0.21	3.3	0.054	2.80	47.2	36.7	1.50	851	0.89	0.10	15.9	39.2	120	14.8
TRD000749																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000754		19.55	0.22	3.1	0.041	2.87	45.0	34.6	1.49	1015	0.95	0.55	15.3	43.6	380	30.2
DUP		21.1	0.27	3.5	0.085	2.92	47.6	40.7	1.53	1040	1.02	0.55	15.9	45.8	390	31.9
Target Range - Lower Bound		19.25	0.18	3.0	0.055	2.74	43.5	35.6	1.42	971	0.89	0.51	14.7	42.3	360	29.0
Upper Bound		21.4	0.31	3.6	0.071	3.05	49.1	39.7	1.60	1085	1.08	0.59	16.5	47.1	410	33.1
TRD000769																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000773		22.2	0.07	3.3	0.089	2.67	11.7	10.2	0.22	552	0.43	0.07	16.7	19.1	110	35.0
DUP		21.6	0.06	3.3	0.065	2.66	15.3	9.7	0.24	559	0.42	0.07	16.7	19.3	110	34.2
Target Range - Lower Bound		20.8	<0.05	3.0	0.068	2.52	12.3	9.3	0.21	523	0.35	0.06	15.8	18.0	90	32.4
Upper Bound		23.0	0.10	3.6	0.086	2.81	14.7	10.6	0.25	588	0.50	0.08	17.6	20.4	130	36.8
TRD000788		20.4	0.06	3.3	0.072	2.95	24.2	21.4	0.25	1545	0.39	0.09	16.8	31.5	170	23.7
DUP		21.3	0.07	3.5	0.052	2.93	33.4	22.3	0.26	1555	0.43	0.08	17.2	32.6	160	24.8
Target Range - Lower Bound		19.75	<0.05	3.1	0.054	2.78	26.9	20.6	0.23	1470	0.34	0.07	16.1	30.2	150	22.5
Upper Bound		21.9	0.10	3.7	0.070	3.10	30.7	23.1	0.28	1635	0.48	0.10	18.0	33.9	180	26.0
TRD000789																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000807		22.3	0.10	3.1	0.077	3.04	52.2	36.6	1.45	1050	0.50	0.16	16.3	49.6	120	27.8
DUP		22.1	0.11	3.0	0.092	3.07	50.5	38.7	1.47	1050	0.51	0.16	16.7	50.3	130	27.7
Target Range - Lower Bound		21.0	<0.05	2.8	0.075	2.89	48.3	35.6	1.38	993	0.43	0.14	15.6	47.3	110	25.9
Upper Bound		23.4	0.16	3.3	0.094	3.22	54.4	39.7	1.54	1110	0.58	0.18	17.4	52.6	140	29.6



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**QC CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>DUPLICATES</b>																
TRD000739		138.0	<0.002	0.26	1.00	13.0	<1	4.0	32.6	1.14	<0.05	18.30	0.419	0.77	2.8	98
DUP		130.5	0.002	0.25	0.98	13.0	1	3.9	30.6	1.12	<0.05	18.10	0.408	0.75	2.7	94
Target Range - Lower Bound		127.5	<0.002	0.23	0.87	12.3	<1	3.6	29.8	1.02	<0.05	17.30	0.388	0.68	2.5	90
Upper Bound		141.0	0.004	0.28	1.11	13.8	2	4.3	33.4	1.24	0.10	19.10	0.439	0.84	3.0	102
TRD000749																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000754		151.0	<0.002	0.07	1.16	12.7	<1	3.9	36.9	1.17	0.05	18.35	0.430	0.80	3.7	96
DUP		157.5	<0.002	0.07	1.08	14.2	1	4.3	38.0	1.20	<0.05	19.45	0.435	0.84	3.8	97
Target Range - Lower Bound		146.5	<0.002	0.06	0.99	12.7	<1	3.7	35.4	1.08	<0.05	17.95	0.406	0.74	3.5	91
Upper Bound		162.0	0.004	0.08	1.25	14.2	2	4.5	39.5	1.29	0.10	19.85	0.459	0.90	4.0	102
TRD000769																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000773		130.5	<0.002	<0.01	1.44	17.4	<1	4.4	37.6	1.29	0.06	16.30	0.469	0.59	3.2	105
DUP		135.5	<0.002	<0.01	1.40	17.3	<1	4.4	38.9	1.29	0.07	19.15	0.468	0.59	3.1	104
Target Range - Lower Bound		126.5	<0.002	<0.01	1.26	16.4	<1	4.0	36.1	1.18	<0.05	16.85	0.440	0.53	2.9	98
Upper Bound		140.0	0.004	0.02	1.58	18.3	2	4.8	40.4	1.40	0.10	18.60	0.497	0.65	3.4	111
TRD000788		131.0	<0.002	<0.01	1.17	15.6	<1	4.4	53.2	1.25	0.06	15.60	0.447	1.09	3.0	102
DUP		138.0	<0.002	<0.01	1.26	16.8	<1	4.6	53.4	1.30	0.06	19.50	0.447	1.13	3.2	102
Target Range - Lower Bound		127.5	<0.002	<0.01	1.07	15.3	<1	4.1	50.4	1.16	<0.05	16.65	0.420	1.01	2.8	96
Upper Bound		141.5	0.004	0.02	1.36	17.1	2	4.9	56.2	1.39	0.10	18.45	0.474	1.21	3.4	108
TRD000789																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000807		184.0	<0.002	0.18	1.76	14.3	<1	4.6	37.0	1.27	0.05	19.50	0.453	1.08	2.9	104
DUP		189.0	<0.002	0.18	1.81	15.2	<1	4.4	38.0	1.22	0.05	19.70	0.459	1.13	2.9	105
Target Range - Lower Bound		177.0	<0.002	0.16	1.60	13.9	<1	4.1	35.4	1.13	<0.05	18.60	0.428	1.00	2.7	98
Upper Bound		196.0	0.004	0.20	1.97	15.6	2	4.9	39.6	1.36	0.10	20.6	0.484	1.21	3.1	111



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>DUPLICATES</b>					
TRD000739		4.1	23.9	157	112.0
DUP		4.0	23.0	152	107.5
Target Range - Lower Bound		3.6	22.2	145	101.0
Upper Bound		4.5	24.7	164	118.5
TRD000749					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000754		3.3	24.5	108	113.5
DUP		3.5	25.6	111	122.0
Target Range - Lower Bound		3.0	23.7	102	108.5
Upper Bound		3.8	26.4	117	127.0
TRD000769					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000773		2.8	10.0	72	118.0
DUP		2.8	12.4	72	120.0
Target Range - Lower Bound		2.5	10.5	66	109.5
Upper Bound		3.1	11.9	78	128.5
TRD000788		2.8	12.3	83	121.0
DUP		2.9	14.7	83	121.0
Target Range - Lower Bound		2.5	12.7	77	111.5
Upper Bound		3.2	14.3	89	130.5
TRD000789					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000807		2.7	24.9	104	108.0
DUP		2.5	25.8	110	113.5
Target Range - Lower Bound		2.3	24.0	100	102.0
Upper Bound		2.9	26.7	114	119.5



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000822			0.09	6.88	10.9	430	2.32	0.42	0.01	0.07	83.7	10.5	68	7.19	36.1	2.21
DUP			0.08	6.98	10.6	430	2.22	0.40	0.01	0.07	82.0	10.6	69	6.82	37.6	2.22
Target Range - Lower Bound			0.07	6.57	10.0	390	2.11	0.38	<0.01	0.05	78.7	9.9	64	6.60	35.4	2.09
Upper Bound			0.10	7.29	11.5	470	2.43	0.44	0.02	0.09	87.0	11.2	73	7.41	38.3	2.34
TRD000826			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000841			0.03	6.87	18.3	390	3.62	1.04	0.02	0.04	90.0	18.4	62	6.13	27.4	2.56
DUP			0.03	6.49	16.0	370	2.60	0.29	0.02	0.03	89.7	15.8	59	6.27	25.2	2.42
Target Range - Lower Bound			0.02	6.34	16.1	340	2.90	0.62	<0.01	<0.02	85.3	16.1	56	5.84	25.2	2.36
Upper Bound			0.04	7.02	18.2	420	3.32	0.71	0.03	0.04	94.4	18.1	65	6.56	27.4	2.62
TRD000846			0.005													
DUP			0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000856			0.02	4.86	29.6	300	1.18	0.11	0.01	<0.02	57.8	1.5	54	2.83	11.4	2.24
DUP			0.02	4.72	27.5	290	1.02	0.11	0.01	<0.02	57.1	1.5	53	2.78	11.0	2.15
Target Range - Lower Bound			<0.01	4.54	26.9	260	1.00	0.09	<0.01	<0.02	54.6	1.3	50	2.61	10.6	2.08
Upper Bound			0.03	5.04	30.2	330	1.21	0.13	0.02	0.04	60.3	1.7	57	3.00	11.8	2.31
TRD000866			0.006													
DUP			0.009													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													
TRD000875			0.02	8.40	2.4	760	3.26	0.37	0.01	<0.02	86.5	11.4	66	9.79	31.8	3.94
DUP			0.02	8.41	2.7	760	2.57	0.35	0.01	0.02	84.6	10.4	64	9.68	30.6	3.94
Target Range - Lower Bound			<0.01	7.97	2.2	690	2.72	0.33	<0.01	<0.02	81.3	10.3	61	9.20	29.9	3.73
Upper Bound			0.03	8.84	2.9	830	3.11	0.39	0.02	0.04	89.8	11.5	69	10.25	32.5	4.15
TRD000890			<0.005													
DUP			<0.005													
Target Range - Lower Bound			<0.005													
Upper Bound			0.010													



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 Account: TINONEAUS

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22077763**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
<b>DUPLICATES</b>																
TRD000822		18.30	0.09	3.6	0.069	2.68	43.6	21.8	0.37	83	2.27	0.06	13.1	28.9	350	19.0
DUP		16.75	0.08	3.3	0.050	2.68	43.1	19.5	0.37	84	2.30	0.06	13.0	29.4	350	19.0
Target Range - Lower Bound		16.60	<0.05	3.2	0.052	2.54	40.7	19.4	0.34	74	2.12	0.05	12.3	27.5	320	17.6
Upper Bound		18.45	0.10	3.7	0.067	2.82	46.0	21.9	0.40	93	2.45	0.07	13.8	30.8	380	20.5
TRD000826																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000841		19.05	0.31	4.1	0.081	2.64	44.9	32.7	0.86	520	1.68	0.08	17.7	40.2	130	13.4
DUP		18.05	0.49	3.9	0.067	2.51	45.0	24.4	0.82	494	1.57	0.08	16.6	35.1	120	14.0
Target Range - Lower Bound		17.55	0.32	3.7	0.065	2.44	42.2	26.9	0.79	477	1.49	0.07	16.2	35.6	110	12.5
Upper Bound		19.55	0.48	4.3	0.083	2.71	47.7	30.2	0.89	537	1.76	0.09	18.1	39.7	140	14.9
TRD000846																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000856		12.10	0.37	4.4	0.080	1.07	29.9	7.6	0.16	73	0.76	0.03	10.0	14.9	130	12.4
DUP		11.55	0.43	4.2	0.043	1.03	29.4	6.7	0.15	69	0.71	0.02	9.5	10.2	130	12.6
Target Range - Lower Bound		11.20	0.32	4.0	0.053	0.99	27.7	6.6	0.14	62	0.65	<0.01	9.2	11.7	110	11.4
Upper Bound		12.45	0.48	4.6	0.070	1.11	31.6	7.7	0.17	80	0.82	0.04	10.3	13.4	150	13.6
TRD000866																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000875		22.5	0.25	3.4	0.080	3.16	35.8	25.2	0.48	178	0.22	0.12	16.1	19.9	200	10.4
DUP		21.8	0.30	3.4	0.095	3.18	36.1	20.0	0.49	176	0.20	0.12	16.0	18.6	200	10.2
Target Range - Lower Bound		21.0	0.20	3.1	0.078	3.00	33.7	21.3	0.45	163	0.15	0.10	15.1	18.1	180	9.3
Upper Bound		23.3	0.35	3.7	0.097	3.34	38.2	23.9	0.52	191	0.27	0.14	17.0	20.4	220	11.3
TRD000890																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22077763**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
<b>DUPLICATES</b>																
TRD000822		151.0	<0.002	1.08	2.84	11.8	<1	3.6	71.4	1.03	<0.05	17.50	0.370	0.97	2.7	99
DUP		159.0	<0.002	1.08	2.79	11.2	<1	3.8	73.3	0.96	<0.05	17.20	0.365	0.98	2.7	96
Target Range - Lower Bound		147.0	<0.002	1.02	2.55	10.8	<1	3.3	68.5	0.90	<0.05	16.45	0.344	0.88	2.5	92
Upper Bound		163.0	0.004	1.14	3.08	12.2	2	4.1	76.2	1.09	0.10	18.25	0.391	1.07	2.9	103
TRD000826																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000841		164.0	0.002	0.07	1.78	11.1	1	3.6	35.5	1.25	0.11	16.95	0.411	0.92	2.9	75
DUP		154.5	<0.002	0.06	1.68	10.0	1	3.6	34.0	1.22	<0.05	16.30	0.388	0.89	2.8	72
Target Range - Lower Bound		151.0	<0.002	0.05	1.55	9.9	<1	3.2	32.8	1.12	<0.05	15.80	0.375	0.82	2.6	69
Upper Bound		167.5	0.004	0.08	1.91	11.2	2	4.0	36.7	1.35	0.10	17.45	0.424	0.99	3.1	78
TRD000846																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000856		59.9	<0.002	<0.01	0.77	6.2	1	2.4	23.6	0.80	<0.05	15.65	0.288	0.27	2.0	50
DUP		57.1	<0.002	<0.01	0.83	6.0	1	2.3	23.1	0.78	<0.05	15.40	0.277	0.25	1.9	49
Target Range - Lower Bound		55.5	<0.002	<0.01	0.69	5.7	<1	2.0	22.0	0.70	<0.05	14.75	0.263	0.22	1.8	46
Upper Bound		61.5	0.004	0.02	0.91	6.5	2	2.7	24.7	0.88	0.10	16.30	0.302	0.30	2.1	53
TRD000866																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000875		164.0	<0.002	0.02	1.40	17.4	1	3.9	69.3	1.22	0.05	19.00	0.433	0.80	2.7	86
DUP		161.5	<0.002	0.02	1.56	16.6	1	4.1	68.8	1.15	0.05	18.15	0.434	0.81	2.6	86
Target Range - Lower Bound		154.5	<0.002	<0.01	1.32	16.1	<1	3.6	65.4	1.08	<0.05	17.65	0.407	0.72	2.4	81
Upper Bound		171.0	0.004	0.03	1.64	18.0	2	4.4	72.7	1.29	0.10	19.50	0.460	0.89	2.9	91
TRD000890																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22077763**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		W ppm	Y ppm	Zn ppm	Zr ppm
		0.1	0.1	2	0.5
<b>DUPLICATES</b>					
TRD000822		2.7	18.1	26	119.5
DUP		2.6	18.8	27	121.5
Target Range - Lower Bound		2.4	17.4	23	111.0
Upper Bound		2.9	19.5	30	130.0
TRD000826					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000841		6.6	21.9	116	147.5
DUP		6.4	20.8	109	134.0
Target Range - Lower Bound		5.9	20.2	105	129.5
Upper Bound		7.1	22.5	120	152.0
TRD000846					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000856		4.2	13.9	21	152.0
DUP		3.9	13.9	20	144.0
Target Range - Lower Bound		3.6	13.1	17	136.5
Upper Bound		4.5	14.7	24	159.5
TRD000866					
DUP					
Target Range - Lower Bound					
Upper Bound					
TRD000875		4.7	22.1	105	130.0
DUP		4.5	21.8	106	126.5
Target Range - Lower Bound		4.2	20.8	98	118.0
Upper Bound		5.0	23.1	113	138.5
TRD000890					
DUP					
Target Range - Lower Bound					
Upper Bound					



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**QC CERTIFICATE OF ANALYSIS BU22077763**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	ME-MS61													
		Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
<b>DUPLICATES</b>																
TRD000910		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000930		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														

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



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10
TRD000910 DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>														
TRD000930 DUP Target Range - Lower Bound Upper Bound															

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**QC CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	%	ppm	ppm	ppm							
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
TRD000910 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
TRD000930 DUP Target Range - Lower Bound Upper Bound																

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
TRD000910 DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>				
TRD000930 DUP Target Range - Lower Bound Upper Bound					



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<b>QC CERTIFICATE OF ANALYSIS BU22077763</b>
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	<b>CERTIFICATE COMMENTS</b>
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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 This copy reported on 22-JUN-2022  
 Account: TINONEAUS

**QC CERTIFICATE BU22084838**

Project: Panama Project

This report is for 155 samples of Drill Core submitted to our lab in Burnie, TAS, Australia on 5-APR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				66.2	4.51	571	150	1.82	5.61	1.85	21.4	46.3	726	53	7.35	8050
EMOG-17				66.3	4.56	569	170	1.81	5.69	1.85	21.6	46.2	735	53	7.45	8160
EMOG-17				62.9	4.62	572	740	1.78	5.52	1.84	18.85	45.0	746	51	6.79	8030
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			100.0													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.74	7.10	60.6	1100	1.50	1.36	3.73	1.83	112.5	23.8	139	3.79	3490
GBM321-8				2.83	6.84	60.7	1060	1.58	1.00	3.64	1.81	113.5	24.8	136	3.88	3460
GBM321-8				2.98	7.25	63.2	1120	1.68	1.03	3.87	1.85	112.0	24.7	140	4.04	3610
GBM321-8				2.96	7.19	59.9	1110	1.43	1.03	3.82	1.77	109.0	26.5	142	3.89	3550
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1	0.032															
GLG313-1	0.032															
GLG313-1	0.037															
GLG313-1	0.032															
Target Range - Lower Bound	0.021															
Upper Bound	0.041															
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19			2.46													
Target Range - Lower Bound			2.23													
Upper Bound			2.63													
MRGeo08				4.30	7.68	35.7	1100	3.47	0.63	2.66	2.34	77.2	18.6	93	12.45	620
MRGeo08				4.25	7.38	34.7	1050	3.50	0.65	2.54	2.30	73.3	18.2	87	13.15	604
MRGeo08				4.36	7.76	36.9	1090	3.30	0.63	2.62	2.39	82.7	18.2	91	13.50	623
MRGeo08				4.13	7.15	33.8	1050	3.25	0.68	2.58	2.23	69.5	18.8	92	11.70	604
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675



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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		4.69	12.15	0.14	1.9	0.923	1.57	23.5	25.7	0.92	714	1070	1.06	14.3	7420	780
EMOG-17		4.73	12.20	0.14	1.8	0.947	1.58	24.4	26.2	0.92	718	1070	1.07	14.3	7440	780
EMOG-17		4.81	11.15	0.13	1.7	0.871	1.59	22.3	26.2	0.92	713	1055	1.07	13.2	7480	760
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.40	19.95	0.18	3.8	0.073	2.05	57.7	10.0	1.80	766	61.1	2.15	10.5	2150	970
GBM321-8		5.33	20.4	0.17	3.4	0.065	2.04	58.9	10.3	1.75	768	62.9	2.13	10.3	2180	920
GBM321-8		5.56	21.2	0.20	3.6	0.086	2.12	58.8	11.1	1.85	802	66.2	2.22	10.6	2310	1000
GBM321-8		5.55	21.3	0.25	3.7	0.077	2.11	53.4	11.2	1.84	789	64.1	2.18	10.5	2320	970
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		3.96	19.00	0.14	3.1	0.178	3.14	37.9	30.0	1.36	558	15.45	2.00	21.4	694	1070
MRGeo08		3.78	18.85	0.13	3.1	0.177	3.04	35.5	32.4	1.28	534	14.95	1.94	19.9	679	1000
MRGeo08		3.93	18.95	0.13	3.0	0.167	3.14	42.7	32.8	1.34	550	15.10	2.00	20.4	701	1030
MRGeo08		3.79	18.75	0.26	3.0	0.176	3.00	31.9	33.2	1.28	540	14.80	1.92	19.4	674	1010
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160



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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		7220	111.0	0.315	3.09	760	7.9	7	2.7	195.5	0.91	1.36	10.70	0.311	2.16	3.0
EMOG-17		7230	108.0	0.323	3.14	757	8.2	7	2.6	199.0	0.91	1.36	10.75	0.311	2.03	3.3
EMOG-17		7110	105.5	0.285	3.10	741	7.6	6	2.4	201	0.85	1.24	10.80	0.310	1.95	3.0
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		2010	165.0	<0.002	0.41	1.70	18.0	<1	3.2	288	0.75	0.06	18.05	0.650	1.17	2.1
GBM321-8		1980	164.5	0.002	0.40	1.76	19.1	1	3.2	278	0.72	0.07	18.50	0.632	1.17	2.2
GBM321-8		2110	173.0	<0.002	0.41	1.81	20.0	1	3.4	293	0.80	0.06	18.20	0.667	1.18	2.2
GBM321-8		2010	172.5	<0.002	0.41	1.76	18.9	1	3.3	294	0.73	0.07	17.40	0.660	1.21	2.2
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1070	212	0.009	0.30	4.72	11.6	1	4.1	305	1.47	<0.05	20.7	0.508	1.02	5.1
MRGeo08		1050	194.0	0.009	0.29	4.63	11.8	1	4.0	295	1.53	<0.05	19.20	0.475	0.99	5.2
MRGeo08		1090	224	0.008	0.30	4.68	12.5	1	4.0	307	1.56	<0.05	20.9	0.487	1.03	5.7
MRGeo08		1035	163.0	0.007	0.29	4.29	11.2	1	3.8	292	1.50	<0.05	18.30	0.485	1.00	5.1
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2



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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>STANDARDS</b>						
EMOG-17		70	3.7	16.5	7350	62.9
EMOG-17		70	3.8	16.4	7360	62.2
EMOG-17		67	3.5	15.1	7200	60.6
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		134	3.4	37.1	1015	150.0
GBM321-8		136	3.6	37.4	1015	133.0
GBM321-8		134	4.0	39.2	1065	148.0
GBM321-8		140	3.3	37.7	1045	140.0
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
MRGeo08		111	4.6	27.4	788	113.5
MRGeo08		105	4.7	25.2	756	107.5
MRGeo08		106	4.6	27.9	780	108.5
MRGeo08		107	4.7	24.0	770	102.0
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0



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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
OREAS 152a				0.67	7.55	35.5	80	0.48	0.12	1.46	0.22	8.33	11.0	17	0.61	3750
OREAS 152a				0.69	7.91	36.0	80	0.50	0.13	1.50	0.24	8.33	11.0	17	0.61	3740
Target Range - Lower Bound				0.59	7.07	31.0	50	0.33	0.12	1.42	0.16	8.58	10.8	15	0.58	3610
Upper Bound				0.75	8.66	38.3	110	0.58	0.17	1.75	0.27	10.50	13.5	21	0.85	4150
OREAS 237		2.32														
OREAS 237		2.25														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.215														
OREAS 253		1.215														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
OREAS 507				1.33	7.50	51.9	1100	2.47	1.59	1.71	0.72	69.4	7.7	44	10.65	6220
Target Range - Lower Bound				1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660
TAZ-20		0.306														
TAZ-20		0.318														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														
<b>BLANKS</b>																
BLANK		<0.005														
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BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													

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**QC CERTIFICATE OF ANALYSIS BU22084838**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
OREAS 152a		3.53	17.90	0.21	0.1	0.035	1.36	3.2	6.1	2.04	282	80.4	2.22	1.0	10.6	600
OREAS 152a		3.58	17.40	0.12	0.1	0.033	1.36	3.3	6.4	2.06	278	82.6	2.23	0.9	10.9	600
Target Range - Lower Bound		3.37	16.45	<0.05	<0.1	0.018	1.31	2.7	5.5	1.89	258	72.2	2.06	0.7	10.3	550
Upper Bound		4.14	20.2	0.28	0.3	0.040	1.62	5.1	7.2	2.33	326	88.3	2.54	1.2	13.1	690
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		3.12	18.55	0.14	1.9	0.143	3.10	32.5	50.0	0.70	348	113.5	2.08	12.3	15.6	850
Target Range - Lower Bound		2.81	18.20	<0.05	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770
Upper Bound		3.45	22.4	0.10	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
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Target Range - Lower Bound																
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Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
OREAS 152a		5.4	18.9	0.294	0.87	1.52	19.6	8	1.5	108.0	0.07	0.16	0.28	0.333	0.19	0.1
OREAS 152a		5.7	16.9	0.302	0.89	1.54	20.9	7	1.5	111.0	0.06	0.17	0.31	0.312	0.21	0.1
Target Range - Lower Bound		5.0	19.7	0.264	0.80	1.28	19.4	6	1.1	107.0	<0.05	0.07	0.24	0.278	0.15	<0.1
Upper Bound		7.7	24.2	0.327	1.00	1.85	23.9	10	2.1	131.0	0.17	0.28	0.32	0.351	0.28	0.3
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		37.0	165.5	0.077	0.73	5.30	7.8	4	4.8	221	1.01	0.64	13.45	0.352	0.90	3.6
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
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Target Range - Lower Bound																
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Target Range - Lower Bound																
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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
OREAS 152a		294	3.6	9.1	81	2.2
OREAS 152a		289	3.6	9.5	81	1.6
Target Range - Lower Bound		269	3.4	9.7	76	0.8
Upper Bound		331	4.8	12.1	98	3.2
OREAS 237						
OREAS 237						
Target Range - Lower Bound						
Upper Bound						
OREAS 253						
OREAS 253						
Target Range - Lower Bound						
Upper Bound						
OREAS 507		62	10.0	15.0	159	64.1
Target Range - Lower Bound		58	7.8	13.9	143	53.9
Upper Bound		73	10.8	17.2	179	74.1
TAZ-20						
TAZ-20						
Target Range - Lower Bound						
Upper Bound						
<b>BLANKS</b>						
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Target Range - Lower Bound						
Upper Bound						
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Target Range - Lower Bound						
Upper Bound						

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**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>BLANKS</b>																
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.02	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4
<b>DUPLICATES</b>																
ORIGINAL				2.83	7.01	3.8	900	1.89	3.49	0.18	0.10	71.4	5.3	15	3.55	13.0
DUP				1.54	6.76	3.7	860	1.91	3.24	0.17	0.10	70.5	4.9	14	3.46	12.1
Target Range - Lower Bound				2.07	6.53	3.4	800	1.76	3.19	0.16	0.08	67.4	4.7	13	3.28	11.9
Upper Bound				2.30	7.24	4.1	960	2.05	3.54	0.19	0.13	74.5	5.5	16	3.73	13.2
ORIGINAL				0.04	7.36	3.7	1260	2.17	0.14	0.52	0.21	88.9	8.6	28	7.24	7.2
DUP				0.03	7.30	3.6	1240	2.13	0.14	0.51	0.22	86.4	8.6	28	6.99	7.9
Target Range - Lower Bound				0.02	6.95	3.3	1150	1.99	0.12	0.48	0.18	83.3	8.1	26	6.71	7.1
Upper Bound				0.05	7.71	4.0	1350	2.31	0.16	0.55	0.25	92.0	9.1	30	7.52	8.0
TRD000890				<0.005												
DUP				<0.005												
Target Range - Lower Bound				<0.005												
Upper Bound				0.010												
TRD000898				0.01	3.83	2.2	270	1.21	0.06	0.03	0.02	63.0	10.2	42	7.68	12.6
DUP				0.01	3.86	2.1	270	1.26	0.06	0.03	<0.02	66.5	9.8	42	8.07	13.2
Target Range - Lower Bound				<0.01	3.64	1.8	240	1.12	0.05	0.02	<0.02	61.5	9.4	39	7.43	12.2
Upper Bound				0.02	4.05	2.5	300	1.35	0.07	0.04	0.04	68.0	10.6	45	8.32	13.6



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22084838**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>BLANKS</b>																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.4	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.3	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20
<b>DUPLICATES</b>																
ORIGINAL		2.14	14.10	0.12	2.8	0.037	3.73	31.9	16.8	0.36	288	0.82	1.91	9.9	6.8	620
DUP		2.07	13.90	0.14	2.7	0.041	3.54	32.5	17.2	0.35	277	0.78	1.84	9.5	6.7	590
Target Range - Lower Bound		1.99	13.25	0.07	2.5	0.032	3.44	30.1	16.0	0.33	263	0.71	1.77	9.1	6.2	560
Upper Bound		2.22	14.75	0.19	3.0	0.046	3.83	34.3	18.1	0.38	302	0.89	1.98	10.3	7.3	650
ORIGINAL		3.14	16.70	0.15	3.0	0.059	5.87	39.4	12.6	0.73	448	0.97	0.51	12.3	13.2	640
DUP		3.08	16.65	0.13	2.9	0.050	5.05	40.4	12.2	0.72	441	1.14	0.50	12.1	13.8	630
Target Range - Lower Bound		2.94	15.80	0.08	2.7	0.047	5.18	37.4	11.6	0.68	417	0.95	0.47	11.5	12.6	590
Upper Bound		3.28	17.55	0.20	3.2	0.062	5.74	42.4	13.2	0.77	472	1.16	0.54	12.9	14.4	680
TRD000890																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000898		1.70	9.48	0.10	4.0	0.034	1.13	35.8	21.9	0.29	286	1.16	0.03	9.3	25.2	200
DUP		1.70	9.93	0.17	4.3	0.040	1.14	36.9	22.7	0.29	288	1.22	0.03	9.5	25.2	200
Target Range - Lower Bound		1.61	9.17	0.07	3.8	0.030	1.07	34.0	21.0	0.27	268	1.08	0.02	8.8	23.7	180
Upper Bound		1.80	10.25	0.20	4.5	0.044	1.20	38.7	23.6	0.31	306	1.30	0.04	10.0	26.7	220





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**QC CERTIFICATE OF ANALYSIS BU22084838**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>BLANKS</b>						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	0.2	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0
<b>DUPLICATES</b>						
ORIGINAL		31	2.8	23.1	77	94.0
DUP		30	2.9	22.5	74	91.5
Target Range - Lower Bound		28	2.5	21.6	70	85.3
Upper Bound		33	3.2	24.0	81	100.0
ORIGINAL		67	4.2	26.9	153	106.5
DUP		65	4.1	26.5	151	103.5
Target Range - Lower Bound		62	3.7	25.3	142	96.6
Upper Bound		70	4.6	28.1	162	113.5
TRD000890						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000898		41	6.3	20.6	55	139.0
DUP		41	6.5	19.2	55	141.0
Target Range - Lower Bound		38	5.8	18.8	50	129.0
Upper Bound		44	7.0	21.0	60	151.0



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22084838**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD000899				0.01	4.23	2.5	240	1.99	0.05	0.01	<0.02	92.7	17.2	43	8.80	9.6
DUP				0.02	4.05	2.5	230	1.86	0.05	0.01	<0.02	92.2	16.7	41	8.54	9.6
Target Range - Lower Bound				<0.01	3.92	2.2	210	1.78	0.04	<0.01	<0.02	87.8	16.0	39	8.19	9.1
Upper Bound				0.02	4.36	2.8	260	2.07	0.06	0.02	0.04	97.1	17.9	45	9.15	10.1
TRD000910		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000918				0.03	7.94	2.3	630	2.88	0.47	0.01	0.04	93.4	15.8	67	11.20	26.0
DUP				0.03	7.76	2.2	620	2.71	0.45	0.01	0.06	91.3	15.9	64	10.80	25.5
Target Range - Lower Bound				0.02	7.45	1.9	570	2.61	0.43	<0.01	0.03	87.7	15.0	61	10.40	24.6
Upper Bound				0.04	8.25	2.6	680	2.98	0.49	0.02	0.07	97.0	16.7	70	11.60	26.9
TRD000930		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD000933				0.02	4.52	4.5	280	1.81	0.07	0.01	<0.02	69.7	9.4	46	9.95	13.5
DUP				0.03	4.53	4.5	280	2.03	0.07	0.02	0.02	70.2	9.5	45	9.91	14.3
Target Range - Lower Bound				<0.01	4.29	4.1	250	1.77	0.06	<0.01	<0.02	66.4	8.9	42	9.38	13.2
Upper Bound				0.04	4.76	4.9	310	2.07	0.08	0.02	0.04	73.5	10.0	49	10.50	14.6
TRD000953				0.02	8.46	2.1	630	2.59	0.35	0.06	0.03	35.5	4.0	68	4.50	24.9
DUP				0.02	8.61	2.1	650	2.76	0.33	0.06	<0.02	30.7	4.1	71	4.48	25.3
Target Range - Lower Bound				<0.01	8.10	1.8	580	2.49	0.31	0.05	<0.02	31.4	3.7	65	4.22	24.0
Upper Bound				0.03	8.97	2.4	700	2.86	0.37	0.07	0.04	34.8	4.4	74	4.76	26.2
TRD000968		<0.005		0.03	8.12	0.8	520	3.69	0.32	<0.01	0.02	76.5	19.0	68	8.25	51.1
DUP		0.005		0.02	8.41	0.8	540	3.48	0.32	0.01	0.03	91.2	18.8	69	8.24	51.1
Target Range - Lower Bound		<0.005		<0.01	7.84	0.6	480	3.36	0.29	<0.01	<0.02	79.6	17.9	64	7.78	49.1
Upper Bound		0.010		0.04	8.69	1.0	580	3.81	0.35	0.02	0.04	88.1	19.9	73	8.71	53.1
TRD000987				0.01	7.83	1.0	630	3.00	0.10	0.01	0.02	92.6	20.4	66	8.84	12.2
DUP				0.01	7.84	0.9	630	2.85	0.11	0.01	<0.02	91.3	20.2	62	8.75	11.3
Target Range - Lower Bound				<0.01	7.43	0.7	570	2.73	0.09	<0.01	<0.02	87.3	19.2	60	8.31	11.1
Upper Bound				0.02	8.24	1.2	690	3.12	0.12	0.02	0.04	96.6	21.4	68	9.28	12.4



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**QC CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000899		1.97	10.15	0.13	3.5	0.030	1.25	55.3	23.9	0.30	416	1.33	0.03	9.6	28.3	250
DUP		1.88	9.86	0.13	3.6	0.027	1.19	54.4	23.5	0.29	401	1.32	0.03	9.7	28.5	250
Target Range - Lower Bound		1.82	9.45	0.07	3.3	0.022	1.15	51.6	22.3	0.27	383	1.21	0.02	9.1	26.8	230
Upper Bound		2.03	10.55	0.19	3.8	0.035	1.29	58.1	25.1	0.32	434	1.44	0.04	10.2	30.0	270
TRD000910																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000918		3.95	21.6	0.19	3.5	0.085	3.30	46.2	30.7	1.32	655	0.49	0.17	15.9	37.6	140
DUP		3.88	21.1	0.18	3.4	0.064	3.25	44.9	30.5	1.30	651	0.50	0.17	15.6	38.7	130
Target Range - Lower Bound		3.71	20.2	0.12	3.2	0.066	3.10	42.8	28.9	1.23	615	0.42	0.15	14.9	36.0	120
Upper Bound		4.12	22.5	0.25	3.7	0.083	3.45	48.3	32.3	1.39	691	0.57	0.19	16.6	40.3	150
TRD000930																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000933		2.47	11.45	0.10	3.2	0.027	1.33	33.7	24.3	0.60	514	1.13	0.16	10.5	30.5	420
DUP		2.47	11.70	0.10	3.2	0.033	1.32	34.4	24.3	0.61	510	1.28	0.16	10.4	31.7	430
Target Range - Lower Bound		2.34	10.95	<0.05	2.9	0.024	1.25	31.8	22.9	0.56	481	1.09	0.14	9.8	29.3	390
Upper Bound		2.60	12.20	0.16	3.5	0.037	1.40	36.3	25.7	0.65	543	1.32	0.18	11.1	32.9	460
TRD000953		3.07	21.8	0.08	3.5	0.079	2.53	21.9	9.1	0.26	189	0.30	0.10	15.7	19.4	160
DUP		3.15	22.3	0.08	3.6	0.077	2.66	17.8	9.6	0.26	192	0.33	0.10	16.1	20.2	160
Target Range - Lower Bound		2.94	20.9	<0.05	3.3	0.069	2.46	18.4	8.7	0.24	176	0.25	0.09	15.0	18.6	140
Upper Bound		3.28	23.2	0.10	3.8	0.087	2.73	21.3	10.0	0.28	205	0.38	0.12	16.8	21.0	180
TRD000968		4.50	22.1	0.20	3.3	0.078	2.88	71.9	35.9	0.86	1005	0.57	0.10	15.0	56.7	100
DUP		4.59	22.2	0.21	3.5	0.072	2.89	91.2	34.0	0.89	1005	0.59	0.10	15.3	55.5	100
Target Range - Lower Bound		4.31	21.0	0.14	3.1	0.066	2.73	77.0	33.0	0.82	950	0.50	0.09	14.3	53.1	90
Upper Bound		4.78	23.3	0.27	3.7	0.084	3.04	86.1	36.9	0.93	1060	0.66	0.12	16.0	59.1	120
TRD000987		3.48	20.8	0.13	3.3	0.070	2.96	48.6	26.0	1.13	581	0.35	0.09	15.4	36.6	80
DUP		3.49	20.7	0.14	3.3	0.070	3.01	46.5	25.6	1.13	580	0.30	0.09	15.4	35.1	90
Target Range - Lower Bound		3.30	19.65	0.07	3.0	0.062	2.83	44.7	24.3	1.06	546	0.26	0.08	14.5	33.9	70
Upper Bound		3.67	21.8	0.20	3.6	0.079	3.14	50.4	27.3	1.20	615	0.39	0.10	16.3	37.8	100



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**QC CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000899		9.0	95.9	<0.002	0.01	0.76	6.2	<1	1.9	18.1	0.76	<0.05	11.30	0.281	0.62	2.3
DUP		9.2	93.4	<0.002	0.01	0.65	6.2	<1	1.9	17.4	0.73	<0.05	11.35	0.274	0.65	2.3
Target Range - Lower Bound		8.1	89.8	<0.002	<0.01	0.60	5.8	<1	1.6	16.7	0.66	<0.05	10.75	0.259	0.57	2.1
Upper Bound		10.1	99.5	0.004	0.02	0.81	6.6	2	2.2	18.8	0.83	0.10	11.90	0.296	0.70	2.5
TRD000910																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000918		12.4	209	<0.002	0.01	0.51	13.9	<1	4.3	52.6	1.23	<0.05	19.70	0.433	0.93	2.6
DUP		12.2	203	<0.002	0.01	0.48	13.7	<1	4.2	51.2	1.21	0.05	19.60	0.427	0.89	2.6
Target Range - Lower Bound		11.2	195.5	<0.002	<0.01	0.41	13.0	<1	3.8	49.1	1.11	<0.05	18.65	0.404	0.82	2.4
Upper Bound		13.4	216	0.004	0.02	0.58	14.6	2	4.7	54.7	1.33	0.10	20.6	0.457	1.00	2.8
TRD000930																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD000933		10.0	117.0	<0.002	0.01	0.64	6.8	<1	2.2	57.3	0.82	<0.05	11.60	0.297	0.54	2.7
DUP		10.8	116.5	<0.002	0.01	0.73	7.1	1	2.1	57.3	0.82	<0.05	12.00	0.294	0.55	2.7
Target Range - Lower Bound		9.4	111.0	<0.002	<0.01	0.58	6.5	<1	1.8	54.2	0.73	<0.05	11.20	0.276	0.48	2.5
Upper Bound		11.4	122.5	0.004	0.02	0.79	7.4	2	2.5	60.4	0.91	0.10	12.40	0.315	0.61	2.9
TRD000953		15.0	132.0	<0.002	0.01	0.64	14.3	1	4.3	51.7	1.23	0.05	20.5	0.430	0.47	2.5
DUP		15.6	133.5	<0.002	0.01	0.65	14.2	1	4.5	51.9	1.27	<0.05	18.95	0.449	0.50	2.6
Target Range - Lower Bound		14.0	126.0	<0.002	<0.01	0.55	13.4	<1	4.0	49.0	1.14	<0.05	18.75	0.413	0.43	2.3
Upper Bound		16.6	139.5	0.004	0.02	0.74	15.1	2	4.8	54.6	1.36	0.10	20.7	0.466	0.54	2.8
TRD000968		11.6	148.0	<0.002	<0.01	0.43	14.5	<1	4.3	29.2	1.20	0.05	17.25	0.419	0.78	2.4
DUP		12.0	163.0	0.002	0.01	0.45	14.5	<1	4.2	30.6	1.19	0.05	19.55	0.421	0.77	2.4
Target Range - Lower Bound		10.7	147.5	<0.002	<0.01	0.36	13.7	<1	3.8	28.2	1.09	<0.05	17.45	0.394	0.70	2.2
Upper Bound		12.9	163.5	0.004	0.02	0.52	15.3	2	4.7	31.6	1.30	0.10	19.35	0.446	0.85	2.6
TRD000987		12.5	180.0	<0.002	<0.01	0.38	14.1	<1	4.2	46.4	1.17	<0.05	20.1	0.415	0.81	3.0
DUP		12.6	183.5	<0.002	<0.01	0.39	14.0	<1	4.3	45.1	1.14	<0.05	19.00	0.415	0.79	3.0
Target Range - Lower Bound		11.4	172.5	<0.002	<0.01	0.31	13.2	<1	3.8	43.3	1.05	<0.05	18.55	0.389	0.72	2.8
Upper Bound		13.7	191.0	0.004	0.02	0.46	14.9	2	4.7	48.2	1.26	0.10	20.5	0.441	0.88	3.3



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000899		44	7.8	27.2	62	127.5
DUP		42	7.5	27.5	60	128.5
Target Range - Lower Bound		40	7.0	25.9	56	118.0
Upper Bound		46	8.3	28.8	66	138.0
TRD000910						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000918		91	2.9	24.9	108	128.5
DUP		89	2.9	24.5	106	127.0
Target Range - Lower Bound		85	2.6	23.4	100	117.5
Upper Bound		96	3.2	26.0	114	138.0
TRD000930						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD000933		47	3.1	23.0	60	117.0
DUP		48	3.2	23.0	61	112.5
Target Range - Lower Bound		44	2.8	21.8	55	105.5
Upper Bound		51	3.5	24.3	66	124.0
TRD000953		93	3.3	15.1	81	123.5
DUP		96	3.4	13.8	83	126.5
Target Range - Lower Bound		89	3.0	13.6	76	115.0
Upper Bound		100	3.7	15.3	88	135.0
TRD000968		91	3.4	48.9	134	116.5
DUP		91	3.3	55.6	134	118.0
Target Range - Lower Bound		85	3.0	49.5	125	108.0
Upper Bound		97	3.7	55.0	143	126.5
TRD000987		86	3.5	23.5	92	119.5
DUP		86	3.5	23.3	92	119.0
Target Range - Lower Bound		81	3.1	22.1	85	110.0
Upper Bound		91	3.9	24.7	99	128.5



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**QC CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD000988		1.825															
DUP		2.21															
Target Range - Lower Bound		1.910															
Upper Bound		2.12															
TRD001002				0.05	7.53	1.1	200	0.74	0.04	6.29	0.08	28.1	38.5	6	1.63	124.5	
DUP				0.06	7.65	1.1	200	0.84	0.04	6.31	0.09	26.1	38.5	6	1.41	124.0	
Target Range - Lower Bound				0.04	7.20	0.8	180	0.70	0.03	5.98	0.06	25.7	36.5	5	1.39	119.5	
Upper Bound				0.07	7.98	1.4	230	0.88	0.05	6.63	0.11	28.5	40.5	7	1.65	129.0	
TRD001008		0.011															
DUP		0.007															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001021				0.02	8.11	1.9	530	2.67	0.32	0.01	0.02	92.1	17.0	64	8.19	14.4	
DUP				0.04	7.94	2.8	520	2.62	0.33	0.01	0.03	89.4	17.2	62	7.95	14.2	
Target Range - Lower Bound				0.02	7.61	2.0	480	2.46	0.30	<0.01	<0.02	86.2	16.1	59	7.62	13.6	
Upper Bound				0.04	8.44	2.7	570	2.83	0.35	0.02	0.04	95.3	18.1	67	8.52	15.0	
TRD001036				0.03	7.86	1.0	500	2.58	0.39	0.07	<0.02	93.8	15.3	58	8.28	19.2	
DUP				0.02	7.48	0.9	470	2.84	0.90	0.07	0.02	98.3	14.8	57	8.70	21.0	
Target Range - Lower Bound				<0.01	7.28	0.7	440	2.52	0.60	0.06	<0.02	91.2	14.2	54	8.02	19.2	
Upper Bound				0.04	8.06	1.2	530	2.90	0.69	0.08	0.04	101.0	15.9	61	8.96	21.0	
TRD001087		<0.005															
DUP		0.008															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001107		0.217															
DUP		0.019															
Target Range - Lower Bound		0.107															
Upper Bound		0.129															
TRD001127		0.012															
DUP		0.008															
Target Range - Lower Bound		<0.005															
Upper Bound		0.016															



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD000988 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001002 DUP		6.88	16.90	0.11	2.8	0.064	0.75	13.4	11.1	2.37	1185	0.43	1.39	5.4	44.0	390
Target Range - Lower Bound		6.96	16.40	0.11	2.8	0.052	0.74	12.4	11.0	2.45	1205	0.51	1.40	5.2	43.9	400
Upper Bound		7.28	17.55	0.17	3.0	0.066	0.79	14.0	11.8	2.54	1260	0.54	1.47	5.7	46.3	420
TRD001008 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001021 DUP		3.44	22.2	0.13	3.2	0.069	2.86	47.5	26.3	1.38	752	2.38	0.21	15.3	37.1	140
Target Range - Lower Bound		3.36	21.4	0.13	3.2	0.078	2.83	46.0	25.8	1.35	747	2.38	0.20	14.6	40.2	130
Upper Bound		3.58	22.9	0.19	3.5	0.082	3.00	49.6	27.6	1.44	792	2.55	0.23	15.8	40.8	150
TRD001036 DUP		3.94	19.00	0.13	2.9	0.063	2.82	42.9	27.3	1.42	791	0.48	0.45	13.8	33.8	340
Target Range - Lower Bound		3.70	20.4	0.15	3.0	0.062	2.73	49.3	29.3	1.33	736	0.56	0.44	14.2	35.1	320
Upper Bound		4.02	20.7	0.20	3.2	0.071	2.92	48.9	29.9	1.45	807	0.60	0.48	14.8	36.4	360
TRD001087 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001107 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001127 DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD000988 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001002 DUP		6.3	23.7	<0.002	0.03	0.18	40.1	<1	1.1	140.5	0.35	<0.05	3.57	0.387	0.20	0.9
Target Range - Lower Bound		6.5	18.0	<0.002	0.03	0.25	37.1	<1	1.0	140.5	0.34	<0.05	3.27	0.390	0.20	0.9
Upper Bound		5.6	19.7	<0.002	0.02	0.15	36.6	<1	0.8	133.5	0.28	<0.05	3.24	0.364	0.17	0.8
TRD001008 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001021 DUP		14.9	165.5	<0.002	0.01	0.59	13.2	<1	5.4	56.3	1.23	<0.05	17.20	0.382	0.72	3.5
Target Range - Lower Bound		15.2	157.5	<0.002	0.01	0.53	12.8	<1	5.1	54.6	1.19	<0.05	16.85	0.380	0.70	3.5
Upper Bound		13.8	153.5	<0.002	<0.01	0.47	12.3	<1	4.8	52.5	1.10	<0.05	16.15	0.357	0.64	3.2
TRD001036 DUP		12.2	168.5	<0.002	0.01	0.40	12.6	<1	4.1	37.4	1.08	<0.05	17.40	0.373	0.74	2.7
Target Range - Lower Bound		12.2	170.5	<0.002	0.01	0.42	13.6	<1	4.4	38.7	1.16	0.08	17.50	0.357	0.82	2.8
Upper Bound		11.1	161.0	<0.002	<0.01	0.33	12.3	<1	3.8	35.9	1.01	<0.05	16.55	0.342	0.70	2.5
TRD001087 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001107 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001127 DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD000988 DUP Target Range - Lower Bound Upper Bound						
TRD001002 DUP Target Range - Lower Bound Upper Bound		213 215 202 226	0.5 0.4 0.3 0.6	23.4 22.1 21.5 24.0	80 82 75 87	110.0 107.0 99.9 117.0
TRD001008 DUP Target Range - Lower Bound Upper Bound						
TRD001021 DUP Target Range - Lower Bound Upper Bound		82 79 75 86	4.7 4.7 4.2 5.2	24.3 23.4 22.6 25.1	70 69 64 75	116.5 113.5 106.0 124.0
TRD001036 DUP Target Range - Lower Bound Upper Bound		81 79 75 85	4.4 4.6 4.1 4.9	21.8 23.4 21.4 23.8	83 78 74 87	103.5 106.0 96.4 113.0
TRD001087 DUP Target Range - Lower Bound Upper Bound						
TRD001107 DUP Target Range - Lower Bound Upper Bound						
TRD001127 DUP Target Range - Lower Bound Upper Bound						



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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD001350		0.063															
DUP		0.063															
Target Range - Lower Bound		0.055															
Upper Bound		0.071															
ORIGINAL				0.06	7.74	13.2	460	3.79	0.47	0.62	0.14	74.3	14.6	65	8.65	28.7	
DUP				0.05	8.49	13.9	470	3.92	0.49	0.66	0.13	90.9	14.4	69	9.06	29.3	
Target Range - Lower Bound				0.04	7.70	12.7	420	3.61	0.45	0.60	0.11	78.5	13.7	63	8.36	27.8	
Upper Bound				0.07	8.53	14.4	510	4.10	0.51	0.68	0.16	86.7	15.3	71	9.35	30.2	
ORIGINAL			142.0														
DUP			141.0														
Target Range - Lower Bound			134.5														
Upper Bound			148.5														

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Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001350 DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		3.97 4.19 3.87 4.29	22.6 22.6 21.4 23.8	0.13 0.16 0.08 0.21	3.3 3.3 3.0 3.6	0.086 0.084 0.076 0.094	3.34 3.44 3.21 3.57	34.6 46.0 37.8 42.8	22.5 22.3 21.1 23.7	1.27 1.35 1.23 1.39	488 521 474 535	0.13 0.17 0.09 0.21	0.99 1.01 0.94 1.06	15.3 15.4 14.5 16.2	34.6 34.2 32.5 36.3	570 580 540 610
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001350 DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		30.9	179.5	<0.002	0.15	0.77	13.0	<1	5.9	56.8	1.18	<0.05	14.50	0.399	1.13	3.5
DUP		29.9	214	<0.002	0.15	0.70	13.7	1	5.9	59.1	1.14	<0.05	18.30	0.408	1.10	3.8
Target Range - Lower Bound		28.4	187.0	<0.002	0.13	0.63	12.6	<1	5.4	54.9	1.05	<0.05	15.55	0.378	1.01	3.4
Upper Bound		32.4	207	0.004	0.17	0.84	14.1	2	6.4	61.0	1.27	0.10	17.25	0.429	1.22	3.9
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22084838**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
TRD001350 DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>					
ORIGINAL DUP Target Range - Lower Bound Upper Bound	94	3.1	22.7	117	120.0	
	92	3.0	25.3	120	121.5	
	87	2.7	22.7	111	111.0	
	99	3.4	25.3	126	130.5	
ORIGINAL DUP Target Range - Lower Bound Upper Bound						



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22084838**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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**QC CERTIFICATE BU22086066**

Project: Panama Project

This report is for 286 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 6-APR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				68.9	4.74	609	260	1.88	5.70	1.92	20.9	45.7	761	55	7.02	8360
EMOG-17				69.2	4.66	594	320	1.70	5.52	1.87	20.9	44.5	766	55	6.77	8350
EMOG-17				70.2	4.79	607	410	1.81	5.42	1.91	21.1	45.0	786	55	6.83	8490
EMOG-17				69.3	4.64	597	400	1.90	5.56	1.88	20.4	46.4	766	54	7.10	8400
EMOG-17				67.4	4.54	570	320	1.80	5.75	1.92	20.6	46.3	736	52	7.27	8010
EMOG-17				68.1	4.70	596	540	1.78	5.87	1.93	21.0	47.6	753	56	7.36	8140
EMOG-17				65.0	4.37	553	300	1.86	5.47	1.83	19.95	44.4	717	51	7.01	7880
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			99.9													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.84	7.13	57.9	1130	1.41	1.21	3.81	1.79	102.0	26.0	143	3.56	3750
GBM321-8				2.74	6.69	54.9	1090	1.43	0.94	3.60	1.68	99.9	25.2	139	3.32	3540
GBM321-8				3.06	7.68	63.0	1180	1.63	1.08	4.07	1.85	112.0	28.7	155	4.09	3820
GBM321-8				2.83	7.20	58.8	1100	1.52	1.01	3.71	1.75	102.5	25.7	141	3.69	3570
GBM321-8				2.76	6.98	56.1	1080	1.39	1.01	3.63	1.63	98.8	25.3	137	3.45	3530
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1		0.025														
GLG313-1		0.032														
GLG313-1		0.032														
GLG313-1		0.030														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.48														
KIP-19		2.43														
KIP-19		2.36														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
KIP-19			2.53													
Target Range - Lower Bound			2.23													
Upper Bound			2.63													



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		4.91	12.95	0.44	1.8	0.868	1.67	23.1	28.2	0.95	765	1130	1.12	14.5	7650	840
EMOG-17		4.78	12.35	0.14	1.8	0.925	1.62	23.5	24.4	0.91	740	1105	1.11	13.9	7690	830
EMOG-17		4.92	12.20	0.13	1.7	0.901	1.70	22.8	25.3	0.94	756	1120	1.15	14.0	7920	840
EMOG-17		4.78	11.80	0.13	1.7	0.856	1.64	24.9	26.0	0.92	744	1115	1.12	13.6	7720	820
EMOG-17		4.76	11.95	0.15	1.8	0.885	1.64	23.7	26.8	0.94	713	1065	1.08	13.8	7440	760
EMOG-17		4.88	13.00	0.24	1.8	0.893	1.65	24.1	27.0	0.96	738	1090	1.09	14.3	7580	800
EMOG-17		4.65	11.50	0.09	1.7	0.904	1.56	23.6	30.0	0.89	699	1065	1.05	13.7	7470	780
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.58	19.95	0.17	3.5	0.074	2.16	52.5	11.0	1.84	827	61.1	2.25	10.3	2350	1050
GBM321-8		5.24	19.15	0.16	3.3	0.068	2.09	50.2	10.0	1.76	779	60.0	2.17	10.0	2250	1010
GBM321-8		5.96	21.3	0.16	3.7	0.081	2.29	58.2	11.4	1.97	839	67.5	2.34	11.0	2420	1040
GBM321-8		5.46	18.85	0.15	3.3	0.076	2.07	53.1	10.6	1.80	809	59.5	2.17	10.4	2260	970
GBM321-8		5.30	19.95	0.15	3.3	0.067	1.97	51.5	10.7	1.74	802	66.2	2.09	9.6	2210	950
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
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**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		7340	110.0	0.306	3.36	845	8.3	7	2.7	204	0.93	1.33	11.15	0.323	2.10	3.0
EMOG-17		7190	113.5	0.301	3.27	818	8.0	7	2.6	205	0.91	1.32	10.65	0.318	2.05	3.0
EMOG-17		7430	114.5	0.293	3.30	837	8.1	7	2.7	210	0.91	1.34	10.45	0.327	2.08	3.0
EMOG-17		7190	111.0	0.315	3.26	823	7.6	8	2.6	207	0.90	1.31	10.80	0.320	1.90	3.0
EMOG-17		7020	110.5	0.312	3.11	782	7.8	7	2.6	202	0.90	1.40	10.50	0.317	1.97	3.0
EMOG-17		7210	109.5	0.315	3.23	797	8.4	7	2.8	208	0.94	1.44	10.95	0.326	2.09	3.2
EMOG-17		7040	103.0	0.292	3.00	762	7.3	6	2.7	197.0	0.88	1.26	10.75	0.306	2.12	3.0
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		2080	168.0	<0.002	0.45	1.64	19.2	<1	3.2	295	0.66	0.07	17.20	0.669	1.24	2.2
GBM321-8		1985	156.0	<0.002	0.42	1.57	18.8	1	3.0	280	0.63	0.07	18.15	0.640	1.13	2.0
GBM321-8		2170	179.0	<0.002	0.44	1.84	19.8	<1	3.3	317	0.77	0.06	17.30	0.709	1.28	2.2
GBM321-8		2050	165.5	<0.002	0.41	1.62	18.6	1	3.1	295	0.72	0.06	17.90	0.648	1.14	2.2
GBM321-8		1920	167.0	0.002	0.39	1.52	17.3	1	3.1	288	0.76	0.06	15.95	0.628	1.18	2.0
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
EMOG-17		73	4.1	15.9	7610	64.7
EMOG-17		72	3.9	16.0	7630	59.3
EMOG-17		74	3.8	16.0	7840	64.1
EMOG-17		74	3.4	15.3	7670	64.5
EMOG-17		72	4.0	15.5	7240	59.0
EMOG-17		73	4.1	15.8	7450	67.1
EMOG-17		69	3.8	14.9	7300	62.1
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		144	3.1	37.8	1140	138.0
GBM321-8		139	3.2	36.8	1080	134.5
GBM321-8		150	3.1	39.2	1130	141.5
GBM321-8		137	3.5	37.3	1100	135.5
GBM321-8		138	3.1	34.5	1045	129.0
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
Target Range - Lower Bound						
Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
MRGeo08				4.25	7.64	33.8	1110	3.29	0.63	2.61	2.29	72.0	18.9	95	11.90	624
MRGeo08				4.35	7.08	33.8	1090	3.20	0.61	2.55	2.33	62.0	19.6	90	11.25	629
MRGeo08				4.16	7.66	33.2	1090	2.77	0.64	2.67	2.17	74.5	19.4	89	12.50	613
MRGeo08				4.23	7.76	34.4	1110	3.35	0.59	2.66	2.30	72.1	19.4	95	12.40	632
MRGeo08				4.41	7.74	35.6	1080	3.29	0.63	2.56	2.36	81.8	19.6	92	12.90	631
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675
OREAS 237		2.33														
OREAS 237		2.18														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														
OREAS 253		1.260														
OREAS 253		1.170														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
OREAS 262		0.086														
Target Range - Lower Bound		0.088														
Upper Bound		0.110														
OREAS 507				1.29	7.56	48.1	1110	2.62	1.76	1.74	0.72	72.0	7.6	45	10.40	6160
OREAS 507				1.28	7.71	48.8	1120	2.54	1.58	1.77	0.69	69.2	7.5	46	10.50	6320
OREAS 507				1.38	7.34	52.4	1150	2.68	1.76	1.75	0.76	74.8	7.9	48	11.15	6550
OREAS 507				1.30	7.71	48.9	1120	2.49	1.74	1.76	0.67	72.1	7.6	46	10.40	6300
OREAS 507				1.35	7.52	51.5	1070	2.49	1.76	1.74	0.69	76.5	7.7	43	11.35	5960
OREAS 507				1.32	7.39	46.8	1070	2.36	1.72	1.71	0.70	70.0	7.3	45	10.15	5940
OREAS 507				1.24	7.46	46.9	1020	2.05	1.70	1.70	0.66	73.0	7.3	44	11.25	5980
Target Range - Lower Bound				1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660
TAZ-20		0.318														
TAZ-20		0.301														
TAZ-20		0.289														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
MRGeo08		3.90	17.85	0.14	2.9	0.165	3.07	35.5	32.7	1.32	561	14.65	2.00	20.2	715	1080
MRGeo08		3.82	17.75	0.11	2.9	0.187	3.06	28.7	31.0	1.27	555	15.70	1.99	20.6	715	1050
MRGeo08		3.91	17.15	0.10	3.1	0.176	3.15	38.1	23.7	1.35	546	14.15	1.97	19.7	692	1020
MRGeo08		3.94	17.55	0.12	3.0	0.183	3.15	35.9	32.0	1.35	579	14.65	2.01	20.7	713	1050
MRGeo08		3.83	18.10	0.13	3.1	0.180	3.03	39.8	33.4	1.31	571	14.35	1.93	19.9	709	1030
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		3.08	20.2	0.29	2.0	0.145	3.12	34.1	51.0	0.69	358	116.0	2.05	12.4	15.6	900
OREAS 507		3.10	19.80	0.13	2.0	0.146	3.11	34.4	46.0	0.69	356	119.0	2.10	11.8	15.6	900
OREAS 507		3.13	20.8	0.14	2.1	0.150	3.24	36.0	49.6	0.69	364	125.5	2.22	12.8	16.6	950
OREAS 507		3.10	18.50	0.11	1.9	0.146	3.11	36.2	47.9	0.68	356	116.0	2.14	11.6	15.4	890
OREAS 507		3.05	19.15	0.11	2.0	0.148	3.08	36.7	50.6	0.69	338	114.0	2.05	12.3	16.0	830
OREAS 507		2.99	19.00	0.22	1.9	0.135	3.09	33.6	48.4	0.69	339	108.5	2.02	11.7	15.2	840
OREAS 507		2.88	18.45	0.11	1.9	0.136	3.03	36.9	42.0	0.67	332	107.5	2.02	11.5	14.5	840
Target Range - Lower Bound		2.81	18.20	<0.05	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770
Upper Bound		3.45	22.4	0.10	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970
TAZ-20																
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
MRGeo08		1075	202	0.007	0.31	4.78	11.4	1	3.9	309	1.37	<0.05	20.5	0.497	1.02	5.3
MRGeo08		1070	169.0	0.007	0.30	4.47	11.0	1	3.9	299	1.34	0.05	16.75	0.491	0.97	4.7
MRGeo08		1055	197.5	0.007	0.30	4.39	11.1	1	3.8	308	1.46	<0.05	20.3	0.493	1.04	5.3
MRGeo08		1090	195.5	0.009	0.31	4.46	11.7	1	3.8	316	1.41	<0.05	20.4	0.497	0.99	5.4
MRGeo08		1030	227	0.009	0.29	4.56	12.2	1	4.1	308	1.62	<0.05	21.9	0.477	1.05	5.4
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		35.8	160.5	0.079	0.77	5.32	8.6	4	4.9	216	1.05	0.74	13.85	0.355	0.87	4.4
OREAS 507		36.2	169.5	0.076	0.76	5.28	8.0	4	4.8	221	1.02	0.61	13.20	0.357	0.85	3.6
OREAS 507		38.6	167.5	0.084	0.80	5.89	8.8	5	5.3	220	1.07	0.72	13.60	0.373	0.93	3.4
OREAS 507		37.2	162.5	0.078	0.77	5.12	7.7	4	4.7	228	1.02	0.66	13.70	0.357	0.83	4.3
OREAS 507		36.6	176.5	0.078	0.71	5.33	8.1	4	5.0	218	1.02	0.74	14.75	0.347	0.84	3.8
OREAS 507		36.1	147.0	0.079	0.72	5.08	8.2	5	4.9	217	0.99	0.68	13.85	0.347	0.82	3.2
OREAS 507		35.2	150.0	0.075	0.72	5.24	7.1	3	4.6	213	0.97	0.68	14.45	0.335	0.88	4.0
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6
TAZ-20																
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
MRGeo08		109	4.6	26.6	823	104.5
MRGeo08		110	4.6	25.3	824	105.0
MRGeo08		109	4.3	26.2	788	101.0
MRGeo08		112	4.3	26.3	841	111.5
MRGeo08		109	4.9	26.9	798	112.5
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0
OREAS 237						
OREAS 237						
Target Range - Lower Bound						
Upper Bound						
OREAS 253						
OREAS 253						
Target Range - Lower Bound						
Upper Bound						
OREAS 262						
Target Range - Lower Bound						
Upper Bound						
OREAS 507		66	8.8	15.6	165	67.4
OREAS 507		64	8.7	15.8	167	60.2
OREAS 507		69	9.1	16.3	173	71.2
OREAS 507		64	8.7	15.2	164	66.6
OREAS 507		64	9.3	15.8	155	64.2
OREAS 507		64	8.1	14.4	157	59.7
OREAS 507		63	7.9	14.6	152	61.8
Target Range - Lower Bound		58	7.8	13.9	143	53.9
Upper Bound		73	10.8	17.2	179	74.1
TAZ-20						
TAZ-20						
TAZ-20						
Target Range - Lower Bound						
Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	1.1
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	<1	<0.05	0.5
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.3
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	2	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.4
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.5
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4
<b>DUPLICATES</b>																
ORIGINAL				0.31	6.79	2.8	300	0.86	0.08	5.12	0.04	23.0	36.1	105	2.66	1370
DUP				0.31	6.84	2.0	300	0.97	0.09	5.18	0.03	23.1	34.9	101	2.48	1390
Target Range - Lower Bound				0.28	6.46	2.1	270	0.82	0.07	4.88	<0.02	21.9	33.6	97	2.39	1330
Upper Bound				0.34	7.17	2.7	330	1.01	0.10	5.42	0.04	24.2	37.4	109	2.75	1430



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>BLANKS</b>																
BLANK																
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Target Range - Lower Bound																
Upper Bound																
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BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.3	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20
<b>DUPLICATES</b>																
ORIGINAL		8.15	16.50	0.24	1.1	0.061	1.50	11.0	22.3	4.16	873	3.27	2.95	3.8	49.9	1530
DUP		8.18	15.95	0.12	1.0	0.041	1.53	10.2	25.0	4.17	885	3.23	2.97	3.6	50.1	1540
Target Range - Lower Bound		7.75	15.35	0.12	0.9	0.043	1.43	9.6	22.3	3.95	830	3.04	2.80	3.4	47.3	1450
Upper Bound		8.58	17.10	0.24	1.2	0.059	1.60	11.6	25.0	4.38	928	3.46	3.12	4.0	52.7	1620



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>BLANKS</b>																
BLANK																
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BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	0.06	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2
<b>DUPLICATES</b>																
ORIGINAL		3.3	40.0	0.006	0.12	0.62	31.7	2	1.2	431	0.20	0.10	1.27	0.503	0.12	0.5
DUP		3.5	38.8	0.006	0.12	0.53	33.5	2	1.2	429	0.22	0.11	1.24	0.506	0.13	0.5
Target Range - Lower Bound		2.7	37.3	0.004	0.10	0.48	30.9	<1	0.9	408	0.15	<0.05	1.18	0.474	0.10	0.4
Upper Bound		4.1	41.5	0.008	0.14	0.67	34.3	3	1.5	452	0.27	0.16	1.33	0.535	0.15	0.6

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm
		1	0.1	0.1	2	0.5
<b>BLANKS</b>						
BLANK						
BLANK						
BLANK						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	6	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	0.2	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0
<b>DUPLICATES</b>						
ORIGINAL		321	0.6	18.6	43	40.6
DUP		327	0.6	17.0	43	39.9
Target Range - Lower Bound		307	0.5	16.8	39	36.7
Upper Bound		341	0.7	18.8	47	43.8

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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD001051		0.021														
DUP		0.021														
Target Range - Lower Bound		0.015														
Upper Bound		0.027														
TRD001052				0.04	5.34	17.5	470	1.50	2.15	0.01	<0.02	51.8	1.7	57	2.50	14.5
DUP				0.10	5.22	16.0	460	1.49	2.20	0.01	<0.02	55.6	1.6	53	2.65	12.8
Target Range - Lower Bound				0.06	5.01	15.7	420	1.37	2.06	<0.01	<0.02	51.0	1.5	51	2.40	13.0
Upper Bound				0.08	5.55	17.8	510	1.62	2.29	0.02	0.04	56.4	1.8	59	2.75	14.3
TRD001067				0.03	4.60	6.6	340	1.35	0.05	0.01	<0.02	59.6	1.0	45	3.22	11.8
DUP				0.03	4.54	6.6	330	1.30	0.05	0.01	<0.02	60.0	0.9	45	3.24	11.9
Target Range - Lower Bound				0.02	4.33	6.1	300	1.21	0.04	<0.01	<0.02	56.8	0.8	42	3.02	11.2
Upper Bound				0.04	4.81	7.1	370	1.44	0.06	0.02	0.04	62.8	1.1	48	3.44	12.5
TRD001078				0.04	5.51	10.0	430	1.84	0.50	0.01	0.02	70.6	2.3	55	3.65	16.4
DUP				0.04	5.83	10.6	450	1.83	0.52	0.01	0.02	73.7	2.4	56	3.88	17.4
Target Range - Lower Bound				0.03	5.38	9.6	400	1.69	0.47	<0.01	<0.02	68.5	2.1	52	3.53	16.1
Upper Bound				0.05	5.96	11.0	480	1.98	0.55	0.02	0.04	75.8	2.6	59	4.00	17.7
TRD001087		<0.005														
DUP		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001088				0.03	4.44	13.0	310	1.39	0.30	0.01	<0.02	62.6	1.4	38	2.88	11.8
DUP				0.04	4.49	12.6	310	1.37	0.30	0.01	<0.02	65.9	1.5	39	2.85	11.5
Target Range - Lower Bound				0.02	4.23	12.0	280	1.26	0.28	<0.01	<0.02	61.0	1.3	36	2.67	11.0
Upper Bound				0.05	4.70	13.6	340	1.50	0.33	0.02	0.04	67.5	1.6	41	3.06	12.3
TRD001103				0.05	8.16	7.7	610	2.54	0.46	0.01	0.07	124.5	20.0	69	5.17	41.4
DUP				0.05	8.32	8.0	620	2.48	0.42	0.01	0.08	133.5	20.5	69	5.19	41.5
Target Range - Lower Bound				0.04	7.82	7.3	560	2.33	0.41	<0.01	0.05	122.5	19.1	65	4.87	39.8
Upper Bound				0.06	8.66	8.4	670	2.69	0.47	0.02	0.10	135.5	21.4	73	5.49	43.1
TRD001107		0.217														
DUP		0.019														
Target Range - Lower Bound		0.107														
Upper Bound		0.129														



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001051 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001052 DUP		1.59	11.60	0.07	3.1	0.042	1.67	26.4	7.1	0.17	62	0.62	0.06	11.0	11.9	100
Target Range - Lower Bound		1.55	12.10	0.08	3.2	0.050	1.67	28.6	7.1	0.16	62	0.61	0.06	10.6	11.0	90
Upper Bound		1.48	11.20	<0.05	2.9	0.039	1.58	25.6	6.5	0.15	54	0.53	0.05	10.2	10.7	80
TRD001067 DUP		1.08	10.30	0.07	3.4	0.028	1.30	30.3	6.0	0.16	43	0.69	0.04	10.2	10.0	100
Target Range - Lower Bound		1.06	10.30	0.08	3.3	0.036	1.29	31.1	5.8	0.16	43	0.69	0.04	9.7	10.0	100
Upper Bound		1.01	9.74	<0.05	3.1	0.025	1.22	28.7	5.4	0.14	36	0.61	0.03	9.4	9.3	90
TRD001078 DUP		2.35	15.30	0.16	2.9	0.063	1.85	29.5	9.1	0.18	93	1.52	0.05	10.5	12.0	120
Target Range - Lower Bound		2.45	15.85	0.16	3.0	0.044	1.92	31.8	9.5	0.19	97	1.56	0.06	11.0	13.2	120
Upper Bound		2.27	14.75	0.10	2.7	0.046	1.78	28.6	8.6	0.17	85	1.41	0.04	10.1	11.8	100
TRD001087 DUP		2.53	16.40	0.22	3.2	0.061	1.99	32.7	10.0	0.20	105	1.67	0.07	11.4	13.4	140
TRD001088 DUP		0.92	10.95	0.07	2.9	0.033	1.33	29.8	5.6	0.13	62	1.00	0.04	9.1	11.3	100
Target Range - Lower Bound		0.94	10.35	0.07	3.0	0.032	1.38	30.5	5.9	0.13	63	1.11	0.04	9.6	11.0	100
Upper Bound		0.87	10.05	<0.05	2.7	0.026	1.28	28.1	5.3	0.11	54	0.95	0.03	8.8	10.4	90
TRD001103 DUP		0.99	11.25	0.10	3.2	0.039	1.43	32.2	6.2	0.15	71	1.16	0.05	9.9	11.9	120
TRD001107 DUP		2.65	21.8	0.22	3.2	0.070	2.83	80.3	22.8	0.84	524	1.60	0.10	15.6	50.9	140
Target Range - Lower Bound		2.69	21.6	0.21	3.2	0.078	2.87	88.5	22.0	0.85	529	1.65	0.10	15.5	50.1	140
Upper Bound		2.53	20.6	0.15	2.9	0.065	2.70	79.7	21.1	0.79	495	1.49	0.09	14.7	47.8	120
TRD001107 DUP		2.81	22.8	0.28	3.5	0.083	3.00	89.1	23.7	0.90	558	1.76	0.12	16.4	53.2	160



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001051 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001052 DUP		12.6	80.7	<0.002	0.01	0.83	7.9	<1	3.0	22.3	0.77	0.18	16.20	0.308	0.28	1.9
Target Range - Lower Bound		13.0	75.1	<0.002	0.01	0.76	8.3	<1	2.9	21.3	0.80	0.18	16.95	0.300	0.31	2.0
Upper Bound		11.7	73.9	<0.002	<0.01	0.69	7.6	<1	2.6	20.5	0.70	0.12	15.75	0.284	0.25	1.8
TRD001067 DUP		11.6	80.6	<0.002	0.01	0.59	6.8	<1	2.3	19.2	0.77	<0.05	11.90	0.289	0.34	2.0
Target Range - Lower Bound		11.6	78.1	<0.002	0.01	0.54	6.9	<1	2.2	18.8	0.72	<0.05	11.85	0.282	0.36	2.0
Upper Bound		10.5	75.3	<0.002	<0.01	0.47	6.4	<1	1.9	17.9	0.66	<0.05	11.25	0.266	0.30	1.8
TRD001078 DUP		13.9	95.2	<0.002	0.01	0.83	10.3	<1	2.8	25.6	0.87	0.08	14.20	0.315	0.42	2.3
Target Range - Lower Bound		14.6	100.5	<0.002	0.01	0.77	10.6	1	2.8	26.4	0.90	0.10	15.35	0.324	0.43	2.4
Upper Bound		13.0	92.9	<0.002	<0.01	0.69	9.8	<1	2.5	24.5	0.79	<0.05	14.05	0.299	0.37	2.1
TRD001087 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001088 DUP		9.1	74.8	<0.002	0.01	0.66	7.1	<1	2.4	20.2	0.75	<0.05	11.35	0.280	0.32	1.9
Target Range - Lower Bound		9.5	71.2	<0.002	0.01	0.62	7.2	<1	2.4	19.6	0.73	<0.05	11.55	0.281	0.29	2.0
Upper Bound		8.3	69.3	<0.002	<0.01	0.54	6.7	<1	2.1	18.7	0.65	<0.05	10.85	0.261	0.26	1.8
TRD001103 DUP		12.5	138.5	0.003	0.36	1.03	14.0	1	4.2	45.1	1.19	<0.05	18.10	0.436	0.80	3.0
Target Range - Lower Bound		12.1	145.5	0.002	0.38	1.01	14.0	<1	4.2	44.6	1.21	<0.05	19.20	0.439	0.79	2.9
Upper Bound		11.2	135.0	<0.002	0.34	0.89	13.2	<1	3.8	42.4	1.09	<0.05	17.70	0.411	0.72	2.7
TRD001107 DUP		13.4	149.0	0.004	0.40	1.15	14.8	2	4.6	47.3	1.31	0.10	19.60	0.464	0.87	3.2
Target Range - Lower Bound																
Upper Bound																



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001051 DUP Target Range - Lower Bound Upper Bound						
TRD001052 DUP Target Range - Lower Bound Upper Bound		57 55 52 60	9.4 9.6 8.7 10.3	17.0 12.8 14.1 15.7	54 52 48 58	130.0 114.0 112.5 131.5
TRD001067 DUP Target Range - Lower Bound Upper Bound		47 46 43 50	5.6 5.3 4.9 6.0	12.6 12.1 11.6 13.1	14 14 11 17	123.0 121.0 112.5 131.5
TRD001078 DUP Target Range - Lower Bound Upper Bound		74 77 71 80	8.0 8.4 7.5 8.9	13.4 12.5 12.2 13.7	50 54 47 57	98.7 100.0 91.4 107.5
TRD001087 DUP Target Range - Lower Bound Upper Bound						
TRD001088 DUP Target Range - Lower Bound Upper Bound		47 48 44 51	4.2 4.3 3.8 4.7	13.0 13.5 12.5 14.0	28 29 25 32	104.5 114.5 101.0 118.0
TRD001103 DUP Target Range - Lower Bound Upper Bound		102 102 96 108	3.4 3.6 3.1 3.9	41.8 44.5 40.9 45.4	144 143 134 153	115.0 117.5 107.0 125.5
TRD001107 DUP Target Range - Lower Bound Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD001122				0.02	7.96	2.8	540	2.55	0.33	0.01	0.02	92.5	14.2	67	7.39	23.9
DUP				0.02	7.84	2.7	530	2.70	0.33	0.01	0.03	90.4	14.0	65	7.29	23.3
Target Range - Lower Bound				<0.01	7.50	2.4	480	2.44	0.30	<0.01	<0.02	86.9	13.3	62	6.92	22.6
Upper Bound				0.03	8.31	3.1	590	2.81	0.36	0.02	0.04	96.0	14.9	70	7.76	24.6
TRD001127		0.012														
DUP		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.016														
TRD001137				0.02	5.41	8.3	280	2.17	0.21	0.01	<0.02	54.7	2.3	52	2.52	11.3
DUP				0.03	5.49	8.5	280	2.10	0.20	0.01	<0.02	56.2	2.4	53	2.62	11.6
Target Range - Lower Bound				<0.01	5.17	7.8	250	1.98	0.18	<0.01	<0.02	52.7	2.1	49	2.39	10.8
Upper Bound				0.04	5.73	9.0	310	2.29	0.23	0.02	0.04	58.2	2.6	56	2.75	12.1
TRD001156				0.04	7.90	5.1	500	2.53	0.42	0.01	<0.02	321	32.7	67	4.95	45.7
DUP				0.03	7.96	5.1	510	2.50	0.44	0.01	0.02	316	32.4	66	5.10	46.0
Target Range - Lower Bound				0.02	7.52	4.6	460	2.34	0.40	<0.01	<0.02	303	30.8	62	4.72	44.0
Upper Bound				0.05	8.34	5.6	550	2.69	0.46	0.02	0.04	334	34.3	71	5.33	47.7
TRD001163		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001171				0.02	7.46	8.2	560	2.31	0.20	0.01	<0.02	41.6	3.4	62	3.60	27.3
DUP				0.03	7.46	8.0	560	2.36	0.21	0.01	<0.02	42.8	3.5	63	3.64	27.6
Target Range - Lower Bound				<0.01	7.08	7.5	510	2.17	0.18	<0.01	<0.02	40.1	3.2	58	3.39	26.3
Upper Bound				0.04	7.84	8.7	610	2.50	0.23	0.02	0.04	44.3	3.7	67	3.85	28.6
TRD001183		0.016														
DUP		0.012														
Target Range - Lower Bound		0.008														
Upper Bound		0.020														
TRD001190				0.03	5.70	9.9	470	2.16	0.20	0.01	0.02	73.5	6.6	52	3.75	13.6
DUP				0.02	5.68	10.0	470	2.16	0.21	0.01	0.03	73.5	6.6	55	3.75	14.2
Target Range - Lower Bound				<0.01	5.40	9.3	420	2.00	0.18	<0.01	<0.02	69.8	6.2	50	3.51	13.2
Upper Bound				0.04	5.98	10.6	520	2.32	0.23	0.02	0.04	77.2	7.0	57	3.99	14.6



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001122		4.55	19.30	0.15	2.9	0.074	2.80	45.8	35.7	1.47	1015	0.41	0.18	14.1	34.6	130
DUP		4.46	19.30	0.16	3.3	0.070	2.78	43.7	34.7	1.43	997	0.48	0.17	13.8	33.8	130
Target Range - Lower Bound		4.27	18.30	0.09	2.8	0.063	2.64	42.0	33.2	1.37	951	0.37	0.16	13.2	32.3	110
Upper Bound		4.74	20.3	0.22	3.4	0.081	2.94	47.5	37.2	1.53	1060	0.52	0.19	14.7	36.1	150
TRD001127																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001137		2.01	16.55	0.08	9.6	0.062	1.42	26.7	6.0	0.14	76	1.76	0.05	50.1	12.4	140
DUP		2.05	17.00	0.08	8.6	0.061	1.46	27.2	6.1	0.14	78	1.80	0.05	48.3	12.8	140
Target Range - Lower Bound		1.92	15.90	<0.05	8.5	0.053	1.36	25.1	5.5	0.12	68	1.64	0.04	46.6	11.8	120
Upper Bound		2.14	17.65	0.10	9.7	0.070	1.52	28.8	6.6	0.16	86	1.92	0.06	51.8	13.4	160
TRD001156		3.49	19.70	0.09	3.8	0.066	2.34	30.5	21.7	0.20	1185	0.31	0.09	15.2	43.5	130
DUP		3.52	20.0	0.09	3.8	0.068	2.36	31.3	21.9	0.20	1165	0.34	0.09	15.2	42.8	130
Target Range - Lower Bound		3.32	18.80	<0.05	3.5	0.059	2.22	28.9	20.5	0.18	1110	0.26	0.08	14.3	40.8	110
Upper Bound		3.69	20.9	0.10	4.1	0.075	2.48	32.9	23.1	0.22	1240	0.39	0.10	16.1	45.5	150
TRD001163																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001171		3.01	18.80	0.07	3.8	0.054	2.27	21.6	8.7	0.19	81	0.44	0.09	14.8	13.6	150
DUP		3.00	18.95	0.07	3.9	0.069	2.33	21.5	8.8	0.19	82	0.51	0.09	14.5	14.0	150
Target Range - Lower Bound		2.84	17.90	<0.05	3.6	0.053	2.18	20.0	8.1	0.17	72	0.40	0.08	13.8	12.9	130
Upper Bound		3.17	19.85	0.10	4.1	0.070	2.43	23.1	9.4	0.21	91	0.55	0.10	15.5	14.7	170
TRD001183																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001190		2.41	14.20	0.11	3.6	0.042	1.66	36.8	9.3	0.20	176	1.02	0.06	12.6	24.0	190
DUP		2.40	14.35	0.10	3.6	0.048	1.67	36.4	9.3	0.20	175	1.04	0.06	12.6	24.0	190
Target Range - Lower Bound		2.27	13.50	<0.05	3.3	0.038	1.57	34.3	8.6	0.18	162	0.93	0.05	11.9	22.6	170
Upper Bound		2.54	15.05	0.16	3.9	0.052	1.76	38.9	10.0	0.22	189	1.13	0.07	13.3	25.4	210



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001122		8.1	153.5	<0.002	0.03	0.53	13.0	<1	3.9	48.5	1.02	0.05	17.00	0.411	0.75	2.2
DUP		8.2	151.5	<0.002	0.03	0.57	13.0	<1	3.8	48.0	1.03	0.05	16.55	0.402	0.77	2.2
Target Range - Lower Bound		7.2	145.0	<0.002	0.02	0.46	12.3	<1	3.5	45.6	0.92	<0.05	15.95	0.381	0.68	2.0
Upper Bound		9.1	160.0	0.004	0.04	0.64	13.8	2	4.2	50.9	1.13	0.10	17.60	0.432	0.84	2.4
TRD001127																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001137		14.2	76.2	<0.002	0.01	0.81	6.7	1	4.2	39.5	3.03	<0.05	33.4	0.286	0.33	2.9
DUP		14.4	76.8	<0.002	0.01	0.83	6.9	<1	4.3	39.8	3.09	0.05	33.1	0.288	0.35	2.9
Target Range - Lower Bound		13.1	72.6	<0.002	<0.01	0.71	6.4	<1	3.8	37.5	2.86	<0.05	31.6	0.268	0.29	2.7
Upper Bound		15.5	80.4	0.004	0.02	0.93	7.2	2	4.7	41.8	3.26	0.10	34.9	0.306	0.39	3.1
TRD001156		21.2	122.5	<0.002	0.02	0.63	13.6	1	3.8	43.1	1.15	0.05	19.40	0.448	0.82	3.3
DUP		21.3	124.0	<0.002	0.02	0.63	15.0	<1	3.8	43.4	1.19	<0.05	19.35	0.447	0.84	3.4
Target Range - Lower Bound		19.7	117.0	<0.002	<0.01	0.53	13.5	<1	3.4	40.9	1.06	<0.05	18.40	0.420	0.75	3.1
Upper Bound		22.8	129.5	0.004	0.03	0.73	15.1	2	4.2	45.6	1.28	0.10	20.4	0.475	0.91	3.6
TRD001163																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001171		12.6	109.0	<0.002	0.02	0.60	13.3	<1	3.6	56.7	1.13	<0.05	18.15	0.420	0.39	3.1
DUP		13.0	111.0	<0.002	0.02	0.62	13.4	<1	3.6	56.9	1.15	<0.05	18.35	0.418	0.36	3.2
Target Range - Lower Bound		11.7	104.5	<0.002	<0.01	0.51	12.6	<1	3.2	53.8	1.03	<0.05	17.35	0.393	0.33	2.9
Upper Bound		13.9	115.5	0.004	0.03	0.71	14.1	2	4.0	59.8	1.25	0.10	19.15	0.445	0.42	3.4
TRD001183																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001190		10.2	89.4	<0.002	0.01	0.87	9.5	<1	2.8	54.6	0.93	0.05	14.65	0.361	0.37	3.4
DUP		10.0	89.0	<0.002	0.01	0.97	9.6	<1	2.9	54.1	0.91	<0.05	14.90	0.357	0.37	3.5
Target Range - Lower Bound		9.1	84.6	<0.002	<0.01	0.80	9.0	<1	2.5	51.4	0.82	<0.05	14.05	0.336	0.32	3.2
Upper Bound		11.1	93.8	0.004	0.02	1.04	10.1	2	3.2	57.3	1.02	0.10	15.50	0.382	0.42	3.7



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**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001122		88	3.8	23.7	112	107.5
DUP		87	3.9	24.1	110	123.0
Target Range - Lower Bound		82	3.5	22.6	103	106.0
Upper Bound		93	4.2	25.2	119	124.5
TRD001127						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001137		48	5.8	26.9	32	298
DUP		49	6.5	26.8	33	292
Target Range - Lower Bound		45	5.6	25.4	29	272
Upper Bound		52	6.7	28.3	36	318
TRD001156		89	3.9	19.4	117	137.5
DUP		89	3.9	20.0	117	137.0
Target Range - Lower Bound		84	3.5	18.6	109	126.5
Upper Bound		94	4.3	20.8	125	148.0
TRD001163						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001171		81	6.0	15.4	57	142.5
DUP		81	6.0	15.9	57	143.0
Target Range - Lower Bound		76	5.5	14.8	52	131.5
Upper Bound		86	6.6	16.5	62	154.0
TRD001183						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001190		65	7.4	23.6	76	125.5
DUP		64	7.3	21.6	75	130.5
Target Range - Lower Bound		60	6.7	21.4	70	118.0
Upper Bound		69	8.0	23.8	81	138.0

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



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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD001203		0.151															
DUP		0.096															
Target Range - Lower Bound		0.112															
Upper Bound		0.135															
TRD001205				0.06	4.35	6.1	410	1.60	0.17	0.01	0.02	74.9	14.0	46	4.59	13.9	
DUP				0.07	4.28	6.3	410	1.53	0.17	0.01	0.03	74.9	13.8	45	4.64	13.1	
Target Range - Lower Bound				0.05	4.09	5.7	370	1.44	0.15	<0.01	<0.02	71.1	13.1	42	4.33	12.8	
Upper Bound				0.08	4.54	6.7	450	1.69	0.19	0.02	0.04	78.7	14.7	49	4.90	14.2	
TRD001224				0.07	6.07	3.8	570	2.26	0.15	0.01	0.03	78.8	8.9	56	5.45	19.7	
DUP				0.07	5.93	3.6	550	2.19	0.15	0.01	<0.02	74.7	8.5	53	5.23	19.4	
Target Range - Lower Bound				0.06	5.69	3.3	510	2.06	0.13	<0.01	<0.02	72.9	8.2	51	5.02	18.7	
Upper Bound				0.08	6.31	4.1	610	2.39	0.17	0.02	0.04	80.6	9.2	58	5.66	20.4	
TRD001239				0.02	8.63	2.0	480	2.31	0.40	<0.01	<0.02	82.7	3.3	83	5.82	17.8	
DUP				0.02	8.65	2.0	480	2.42	0.42	<0.01	<0.02	83.0	3.3	84	5.71	19.2	
Target Range - Lower Bound				<0.01	8.20	1.7	430	2.20	0.38	<0.01	<0.02	78.7	3.0	78	5.43	17.7	
Upper Bound				0.03	9.08	2.3	530	2.53	0.44	0.02	0.04	87.0	3.6	89	6.10	19.3	
TRD001240		0.014															
DUP		0.013															
Target Range - Lower Bound		0.008															
Upper Bound		0.019															
TRD001258				0.02	8.29	2.0	470	2.56	0.33	0.01	0.04	89.3	15.8	68	10.95	33.4	
DUP				0.02	8.32	2.0	470	2.99	0.33	0.01	0.03	87.6	16.0	68	10.65	33.5	
Target Range - Lower Bound				<0.01	7.88	1.7	420	2.59	0.30	<0.01	<0.02	84.0	15.0	64	10.20	32.1	
Upper Bound				0.03	8.73	2.3	520	2.96	0.36	0.02	0.04	92.9	16.8	72	11.40	34.8	
TRD001260		<0.005															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001273				0.04	9.03	0.6	720	3.36	0.58	0.02	0.03	101.0	18.7	75	11.75	34.3	
DUP				0.04	8.51	0.8	690	3.13	0.56	0.02	0.02	90.1	17.5	71	10.60	32.7	
Target Range - Lower Bound				0.03	8.32	0.5	640	3.03	0.53	<0.01	<0.02	90.8	17.1	68	10.55	32.1	
Upper Bound				0.05	9.22	0.9	770	3.46	0.61	0.03	0.04	100.5	19.1	78	11.80	34.9	



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001203 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001205 DUP		1.91	10.15	0.13	3.7	0.025	1.41	57.1	15.6	0.29	298	0.80	0.05	10.1	22.0	150
Target Range - Lower Bound		1.89	10.15	0.12	3.7	0.031	1.39	57.4	15.4	0.28	292	0.86	0.05	10.1	21.7	150
Upper Bound		2.01	10.70	0.18	4.0	0.034	1.48	60.6	16.5	0.31	315	0.92	0.06	10.7	23.1	170
TRD001224 DUP		2.37	14.35	0.09	3.2	0.049	2.11	42.6	17.5	0.33	131	0.43	0.08	12.2	19.1	120
Target Range - Lower Bound		2.29	14.10	0.11	3.0	0.046	2.03	41.1	16.9	0.32	122	0.40	0.08	11.9	18.0	120
Upper Bound		2.46	15.00	0.16	3.4	0.055	2.18	44.4	18.3	0.35	138	0.49	0.09	12.8	19.7	140
TRD001239 DUP		4.14	21.5	0.09	3.4	0.072	2.73	29.4	11.5	0.25	312	0.20	0.10	15.3	13.7	100
Target Range - Lower Bound		4.12	21.0	0.10	3.4	0.079	2.76	29.3	11.6	0.25	307	0.19	0.10	15.6	14.1	100
Upper Bound		4.35	22.4	0.10	3.7	0.084	2.89	31.3	12.3	0.27	330	0.25	0.12	16.3	14.8	120
TRD001240 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001258 DUP		3.74	20.7	0.13	3.5	0.082	2.98	49.5	30.1	0.96	833	0.21	0.22	15.2	40.1	80
Target Range - Lower Bound		3.75	20.5	0.12	3.4	0.072	3.00	50.2	37.4	0.97	835	0.19	0.22	15.7	40.6	90
Upper Bound		3.94	21.7	0.18	3.7	0.086	3.15	52.8	35.6	1.02	881	0.26	0.24	16.3	42.6	100
TRD001260 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001273 DUP		4.25	22.3	0.13	3.5	0.065	3.31	51.0	42.8	1.64	1135	0.24	0.34	16.2	43.1	160
Target Range - Lower Bound		4.03	20.4	0.13	3.1	0.075	3.15	45.4	41.0	1.55	1085	0.26	0.33	15.2	39.8	150
Upper Bound		4.36	22.5	0.19	3.6	0.079	3.40	51.1	44.2	1.68	1170	0.31	0.36	16.6	43.7	170



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001203 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001205 DUP		10.2	77.5	<0.002	0.01	0.57	7.0	<1	2.0	35.1	0.75	0.05	12.00	0.296	0.59	2.6
Target Range - Lower Bound		9.8	77.5	<0.002	0.01	0.61	7.0	<1	2.2	34.8	0.75	0.05	12.00	0.297	0.55	2.6
Upper Bound		11.0	81.5	0.004	0.02	0.68	7.5	2	2.4	36.9	0.84	0.10	12.60	0.316	0.63	2.8
TRD001224 DUP		13.4	111.5	<0.002	0.01	0.43	9.4	<1	3.2	33.3	0.97	<0.05	14.80	0.355	0.48	2.7
Target Range - Lower Bound		13.2	110.0	<0.002	0.01	0.45	9.2	<1	3.0	32.3	0.92	<0.05	14.70	0.344	0.47	2.6
Upper Bound		14.5	116.5	0.004	0.02	0.52	9.9	2	3.5	34.6	1.04	0.10	15.50	0.372	0.53	2.9
TRD001239 DUP		19.5	150.5	<0.002	0.02	1.02	16.6	1	4.3	29.7	1.24	<0.05	23.7	0.456	0.59	3.7
Target Range - Lower Bound		19.6	156.0	<0.002	0.02	1.02	16.3	1	4.3	31.0	1.23	<0.05	22.8	0.448	0.57	3.6
Upper Bound		21.0	161.0	0.004	0.03	1.15	17.4	2	4.7	32.1	1.35	0.10	24.4	0.480	0.64	3.9
TRD001240 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001258 DUP		12.9	185.0	<0.002	<0.01	0.94	14.0	<1	3.8	27.0	1.20	0.07	17.75	0.434	0.92	2.9
Target Range - Lower Bound		12.9	193.0	<0.002	<0.01	1.03	14.6	<1	3.8	27.7	1.20	0.05	18.80	0.435	0.93	3.0
Upper Bound		14.0	198.5	0.004	0.02	1.11	15.1	2	4.2	28.9	1.31	0.10	19.20	0.461	1.01	3.2
TRD001260 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001273 DUP		22.3	215	<0.002	<0.01	1.13	15.7	<1	4.1	56.4	1.28	0.06	19.95	0.458	1.08	3.1
Target Range - Lower Bound		20.0	198.0	<0.002	<0.01	0.98	14.6	<1	4.0	53.8	1.16	0.05	17.25	0.435	1.00	2.8
Upper Bound		22.7	217	0.004	0.02	1.18	16.0	2	4.5	58.1	1.33	0.10	19.55	0.474	1.14	3.2



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001203 DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001205 DUP		46	5.1	27.9	87	131.0
Target Range - Lower Bound		42	4.7	26.4	80	119.0
Upper Bound		49	5.7	29.4	93	139.0
TRD001224 DUP		68	6.7	22.3	76	128.0
Target Range - Lower Bound		62	5.9	20.8	69	115.5
Upper Bound		71	7.1	23.2	80	135.0
TRD001239 DUP		104	3.3	13.2	36	134.5
Target Range - Lower Bound		97	3.0	14.6	32	126.5
Upper Bound		109	3.7	16.4	39	148.0
TRD001240 DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001258 DUP		96	3.8	26.4	111	112.5
Target Range - Lower Bound		90	3.4	25.5	103	104.5
Upper Bound		102	4.2	28.3	119	122.5
TRD001260 DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001273 DUP		106	3.2	33.7	115	119.0
Target Range - Lower Bound		97	2.7	29.9	104	106.0
Upper Bound		110	3.4	33.3	120	124.5



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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD001280		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001292				0.04	7.78	0.7	580	2.56	0.76	0.12	0.02	89.1	15.8	64	10.75	24.9
DUP				0.04	7.81	0.7	580	2.35	0.68	0.12	0.02	85.2	15.2	63	10.40	22.1
Target Range - Lower Bound				0.03	7.40	0.5	530	2.28	0.67	0.10	<0.02	82.8	14.6	59	10.00	22.5
Upper Bound				0.05	8.19	0.9	630	2.63	0.77	0.14	0.04	91.5	16.4	68	11.15	24.5
TRD001307				0.02	8.32	0.6	550	3.22	0.64	0.11	0.07	99.6	17.2	68	9.05	30.7
DUP				0.03	7.88	0.7	520	2.93	0.26	0.11	0.08	94.4	16.4	63	8.59	26.8
Target Range - Lower Bound				<0.01	7.69	0.4	480	2.87	0.42	0.09	0.05	92.1	15.9	61	8.33	27.5
Upper Bound				0.04	8.52	0.9	590	3.28	0.48	0.13	0.10	102.0	17.7	70	9.31	30.0
TRD001320		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001326				0.07	8.02	0.5	510	2.95	0.56	0.10	0.03	96.0	15.6	70	10.65	79.3
DUP				0.07	7.64	0.5	490	2.56	0.58	0.10	0.02	78.7	14.6	68	8.90	71.7
Target Range - Lower Bound				0.06	7.43	0.3	450	2.57	0.53	0.09	<0.02	83.0	14.2	65	9.24	72.7
Upper Bound				0.08	8.23	0.7	550	2.94	0.61	0.12	0.04	91.7	16.0	73	10.30	78.3
TRD001341				0.01	3.46	6.5	340	0.88	0.15	0.01	0.02	163.5	2.4	40	4.12	11.5
DUP				0.01	3.37	5.8	340	0.91	0.14	0.01	<0.02	144.0	2.2	39	3.75	10.8
Target Range - Lower Bound				<0.01	3.23	5.6	300	0.80	0.13	<0.01	<0.02	146.0	2.1	37	3.69	10.6
Upper Bound				0.02	3.60	6.7	380	0.99	0.16	0.02	0.04	161.5	2.5	42	4.18	11.7
TRD001484		0.013														
DUP		0.012														
Target Range - Lower Bound		0.007														
Upper Bound		0.018														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001280 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001292 DUP		3.99	19.95	0.12	3.1	0.071	3.22	41.6	35.7	1.43	833	0.26	0.54	14.4	35.6	490
Target Range - Lower Bound		3.97	19.25	0.13	3.1	0.071	3.22	41.0	34.0	1.42	826	0.26	0.54	14.1	34.9	490
Upper Bound		4.19	20.6	0.18	3.4	0.080	3.39	43.9	36.8	1.51	876	0.32	0.58	15.1	37.2	520
TRD001307 DUP		4.30	21.5	0.13	3.0	0.075	3.13	49.3	39.9	1.50	1020	0.46	0.61	14.6	38.3	470
Target Range - Lower Bound		4.10	20.3	0.13	2.9	0.071	2.97	47.0	37.6	1.44	970	0.44	0.58	14.1	38.0	450
Upper Bound		4.42	22.0	0.19	3.2	0.082	3.21	51.1	40.9	1.55	1050	0.52	0.63	15.2	40.3	490
TRD001320 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001326 DUP		4.09	22.6	0.16	3.0	0.078	3.18	43.8	38.2	1.39	1080	0.51	0.59	14.5	39.1	440
Target Range - Lower Bound		3.94	20.4	0.13	2.7	0.064	3.08	37.5	34.3	1.32	1050	0.46	0.56	12.8	36.7	420
Upper Bound		4.23	22.6	0.21	3.1	0.080	3.30	43.2	38.3	1.43	1125	0.56	0.61	14.4	40.0	460
TRD001341 DUP		1.57	9.12	0.14	3.8	0.033	1.18	72.7	6.7	0.23	131	0.57	0.04	9.3	7.5	400
Target Range - Lower Bound		1.54	8.60	0.13	3.7	0.032	1.16	67.4	6.3	0.22	129	0.52	0.04	8.5	7.2	400
Upper Bound		1.64	9.35	0.20	4.0	0.039	1.24	74.1	7.0	0.25	142	0.62	0.05	9.4	7.9	430
TRD001484 DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001280 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001292 DUP		18.6	209	<0.002	0.04	0.91	13.8	<1	3.9	75.6	1.13	<0.05	18.55	0.416	0.96	3.0
Target Range - Lower Bound		17.8	209	<0.002	0.04	0.92	13.1	<1	4.0	75.1	1.11	<0.05	17.90	0.419	0.90	2.8
Upper Bound		16.8	198.5	<0.002	0.03	0.80	12.7	<1	3.6	71.4	1.01	<0.05	17.30	0.392	0.84	2.7
TRD001307 DUP		21.4	210	<0.002	0.02	1.08	14.5	<1	4.4	52.0	1.12	<0.05	19.05	0.426	0.91	2.8
Target Range - Lower Bound		20.9	203	<0.002	0.02	1.14	13.8	<1	4.1	49.3	1.07	<0.05	18.45	0.407	0.91	2.7
Upper Bound		19.6	196.0	<0.002	<0.01	0.98	13.3	<1	3.8	47.9	0.99	<0.05	17.80	0.391	0.82	2.5
TRD001320 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001326 DUP		16.0	203	<0.002	0.02	0.67	14.8	<1	4.2	50.5	1.24	<0.05	17.70	0.402	0.88	2.9
Target Range - Lower Bound		14.1	184.0	<0.002	0.02	0.61	13.6	<1	3.8	45.0	1.10	<0.05	16.20	0.386	0.77	2.6
Upper Bound		13.8	183.5	<0.002	<0.01	0.54	13.4	<1	3.6	45.2	1.06	<0.05	16.10	0.369	0.74	2.5
TRD001341 DUP		7.1	72.4	<0.002	0.01	0.63	11.2	<1	2.2	22.6	0.81	<0.05	12.70	0.279	0.31	2.2
Target Range - Lower Bound		6.5	63.9	<0.002	0.01	0.60	10.6	<1	2.1	20.2	0.75	<0.05	11.45	0.276	0.29	2.0
Upper Bound		6.0	64.6	<0.002	<0.01	0.52	10.3	<1	1.8	20.1	0.69	<0.05	11.45	0.259	0.26	1.9
TRD001484 DUP		7.6	71.7	0.004	0.02	0.71	11.5	2	2.5	22.7	0.87	0.10	12.70	0.296	0.34	2.3
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001280 DUP Target Range - Lower Bound Upper Bound						
TRD001292 DUP Target Range - Lower Bound Upper Bound		93 93 87 99	2.8 2.7 2.4 3.1	23.1 23.1 21.8 24.4	97 96 90 103	105.5 107.5 98.0 115.0
TRD001307 DUP Target Range - Lower Bound Upper Bound		97 94 90 101	3.3 3.2 2.9 3.6	28.0 27.0 26.0 29.0	91 88 83 96	106.0 103.5 96.4 113.0
TRD001320 DUP Target Range - Lower Bound Upper Bound						
TRD001326 DUP Target Range - Lower Bound Upper Bound		98 95 91 102	2.9 2.6 2.4 3.1	22.4 19.9 20.0 22.3	101 97 92 106	109.0 99.5 95.9 112.5
TRD001341 DUP Target Range - Lower Bound Upper Bound		43 42 39 46	4.9 4.4 4.2 5.1	11.8 11.0 10.7 12.1	17 17 14 20	150.0 140.5 134.0 156.5
TRD001484 DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
ORIGINAL				0.30	7.50	8.2	490	2.86	0.62	0.29	0.50	92.4	14.7	64	8.12	811
DUP				0.30	7.56	7.5	480	2.73	0.63	0.29	0.47	92.1	14.3	67	7.68	797
Target Range - Lower Bound				0.28	7.14	7.3	440	2.61	0.58	0.27	0.44	87.6	13.7	61	7.46	776
Upper Bound				0.33	7.92	8.4	530	2.98	0.67	0.31	0.53	96.9	15.3	70	8.35	832
ORIGINAL				0.01	7.67	15.6	600	2.91	0.34	0.17	0.02	88.1	12.8	57	8.57	27.4
DUP				0.01	7.45	14.1	580	2.91	0.36	0.17	0.02	89.3	11.6	56	8.09	21.6
Target Range - Lower Bound				<0.01	7.17	13.9	540	2.71	0.32	0.15	<0.02	84.3	11.5	53	7.86	23.4
Upper Bound				0.02	7.95	15.8	640	3.11	0.38	0.19	0.04	93.1	12.9	60	8.80	25.6

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



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**QC CERTIFICATE OF ANALYSIS BU22086066**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
ORIGINAL		4.38	22.0	0.20	3.8	0.128	3.09	42.7	34.5	1.53	357	0.59	0.51	7.4	32.0	740
DUP		4.33	20.2	0.41	3.7	0.127	3.09	44.4	32.1	1.50	361	0.55	0.50	8.1	31.7	720
Target Range – Lower Bound		4.13	20.00	0.23	3.5	0.116	2.93	40.9	31.4	1.43	336	0.49	0.47	7.3	30.1	680
Upper Bound		4.58	22.2	0.38	4.0	0.139	3.25	46.2	35.2	1.60	382	0.65	0.54	8.2	33.6	780
ORIGINAL		3.92	21.1	0.32	4.2	0.065	3.36	42.2	13.2	1.34	239	0.32	0.70	14.7	26.4	770
DUP		3.78	19.65	0.42	4.0	0.059	3.27	42.6	12.7	1.30	232	0.25	0.67	14.2	25.5	710
Target Range – Lower Bound		3.65	19.30	0.29	3.8	0.054	3.14	39.8	12.1	1.24	219	0.22	0.64	13.6	24.5	690
Upper Bound		4.05	21.4	0.45	4.4	0.070	3.49	45.0	13.8	1.40	252	0.35	0.73	15.3	27.4	790

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**QC CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
ORIGINAL		27.8	155.5	0.002	0.48	0.83	12.9	<1	4.3	33.3	0.58	<0.05	18.05	0.254	1.09	3.3
DUP		26.0	167.5	0.002	0.46	0.85	12.4	1	4.4	33.3	0.61	<0.05	18.15	0.272	1.10	3.2
Target Range - Lower Bound		25.1	153.5	<0.002	0.44	0.73	11.9	<1	3.9	31.4	0.52	<0.05	17.20	0.245	0.99	3.0
Upper Bound		28.7	169.5	0.004	0.50	0.95	13.4	2	4.8	35.2	0.67	0.10	19.00	0.281	1.20	3.5
ORIGINAL		2.3	182.5	<0.002	0.04	1.28	12.6	<1	5.7	33.2	1.21	<0.05	20.8	0.358	0.91	3.7
DUP		2.1	178.0	<0.002	0.03	1.24	12.2	<1	5.2	32.0	1.18	<0.05	19.85	0.355	0.87	3.5
Target Range - Lower Bound		1.6	171.0	<0.002	0.02	1.12	11.7	<1	5.0	30.8	1.09	<0.05	19.30	0.334	0.80	3.3
Upper Bound		2.8	189.5	0.004	0.05	1.40	13.1	2	5.9	34.4	1.30	0.10	21.4	0.379	0.98	3.9

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
<b>DUPLICATES</b>						
ORIGINAL		82	1.8	9.4	254	136.5
DUP		76	1.7	9.3	249	137.0
Target Range - Lower Bound		74	1.5	8.8	237	126.0
Upper Bound		84	2.0	9.9	266	147.5
ORIGINAL		83	2.8	13.9	72	148.0
DUP		78	2.8	13.8	69	145.0
Target Range - Lower Bound		75	2.5	13.1	65	135.0
Upper Bound		86	3.1	14.6	76	158.0



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**QC CERTIFICATE OF ANALYSIS BU22086066**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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This copy reported on 8-JUL-2022  
Account: TINONEAUS

**QC CERTIFICATE BU22092015**

Project: Panama Project

This report is for 187 samples of Percussion Chip submitted to our lab in Burnie, TAS, Australia on 12-APR-2022.

The following have access to data associated with this certificate:

TINONE_QUEST EARTHSQL	RUSSELL FULTON	STUART SMITH
-----------------------	----------------	--------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				69.9	4.77	595	200	1.91	5.42	1.96	21.5	44.0	766	55	7.27	8560
EMOG-17				67.7	4.61	581	270	1.74	5.23	1.90	20.9	44.9	744	54	6.56	8390
EMOG-17				68.9	4.67	594	330	1.68	5.55	1.90	20.9	46.5	760	53	6.94	8350
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			98.1													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.73	6.85	55.8	1080	0.99	0.73	3.82	1.73	70.1	24.8	138	2.51	3540
GBM321-8				2.76	7.05	57.1	1080	1.41	1.34	3.76	1.81	105.0	24.8	144	3.60	3540
GBM321-8				2.88	6.81	58.2	1060	1.44	1.04	3.64	1.76	100.5	25.0	140	3.43	3470
GBM321-8				2.76	6.98	56.1	1080	1.39	1.01	3.63	1.63	98.8	25.3	137	3.45	3530
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1		0.037														
GLG313-1		0.025														
GLG313-1		0.032														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19		2.56														
KIP-19		2.43														
Target Range - Lower Bound		2.28														
Upper Bound		2.58														
MRGeo08				4.34	7.66	34.7	1120	3.41	0.63	2.78	2.36	70.5	19.7	89	12.25	654
MRGeo08				4.32	7.69	34.8	1090	3.44	0.58	2.67	2.31	75.8	19.2	94	12.50	621
MRGeo08				4.23	6.88	34.2	1070	3.23	0.64	2.56	2.35	62.2	19.0	91	12.05	619
MRGeo08				4.41	7.74	35.6	1080	3.29	0.63	2.56	2.36	81.8	19.6	92	12.90	631
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675
OREAS 237		2.25														
OREAS 237		2.29														
OREAS 237		2.33														
OREAS 237		2.26														
OREAS 237		2.17														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		5.00	12.45	0.12	1.8	0.957	1.68	22.6	26.7	0.98	756	1115	1.12	14.6	7800	830
EMOG-17		4.83	11.20	0.13	1.7	0.923	1.64	22.7	26.4	0.95	729	1070	1.09	13.6	7550	800
EMOG-17		4.81	11.85	0.20	1.7	0.941	1.63	23.5	25.1	0.94	737	1110	1.10	14.2	7610	810
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.39	13.25	0.10	2.8	0.066	2.08	36.6	7.5	1.84	779	60.1	2.15	10.2	2200	950
GBM321-8		5.49	19.10	0.15	3.3	0.066	2.11	54.6	10.4	1.84	789	57.3	2.18	10.2	2200	960
GBM321-8		5.30	19.45	0.17	3.5	0.068	1.99	51.1	10.2	1.73	776	61.6	2.11	9.8	2190	960
GBM321-8		5.30	19.95	0.15	3.3	0.067	1.97	51.5	10.7	1.74	802	66.2	2.09	9.6	2210	950
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.09	17.70	0.10	3.4	0.182	3.26	35.3	33.4	1.40	572	15.45	2.08	21.6	727	1070
MRGeo08		4.00	17.90	0.11	3.0	0.173	3.16	37.6	32.3	1.36	556	14.80	2.00	20.6	703	1050
MRGeo08		3.76	18.45	0.14	3.1	0.181	2.89	28.9	31.4	1.24	554	14.85	1.96	20.2	690	1020
MRGeo08		3.83	18.10	0.13	3.1	0.180	3.03	39.8	33.4	1.31	571	14.35	1.93	19.9	709	1030
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160
OREAS 237																
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OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		7380	120.5	0.319	3.33	822	8.0	7	2.7	209	0.92	1.45	10.35	0.330	1.99	3.1
EMOG-17		7190	114.5	0.289	3.25	798	7.4	6	2.6	204	0.84	1.37	9.93	0.317	1.94	2.9
EMOG-17		7140	113.0	0.317	3.18	790	7.9	7	2.8	208	0.90	1.35	10.80	0.316	2.16	3.3
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		1995	169.5	<0.002	0.41	1.56	12.8	<1	3.0	280	0.49	0.05	11.15	0.632	0.89	1.4
GBM321-8		2010	166.5	<0.002	0.44	1.50	18.3	1	3.2	287	0.75	<0.05	16.20	0.649	1.10	1.9
GBM321-8		1925	150.5	<0.002	0.40	2.35	18.4	<1	3.1	285	0.68	0.08	17.85	0.629	1.24	2.1
GBM321-8		1920	167.0	0.002	0.39	1.52	17.3	1	3.1	288	0.76	0.06	15.95	0.628	1.18	2.0
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1105	217	0.010	0.31	4.62	12.0	1	4.0	312	1.50	<0.05	19.25	0.499	1.05	4.9
MRGeo08		1085	208	0.008	0.31	4.48	11.4	1	3.9	309	1.42	<0.05	20.5	0.499	0.96	5.1
MRGeo08		1035	156.5	0.007	0.29	4.59	10.8	1	3.8	300	1.47	<0.05	16.45	0.488	1.08	4.6
MRGeo08		1030	227	0.009	0.29	4.56	12.2	1	4.1	308	1.62	<0.05	21.9	0.477	1.05	5.4
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2
OREAS 237																
OREAS 237																
OREAS 237																
OREAS 237																
OREAS 237																
Target Range - Lower Bound																
Upper Bound																



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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
EMOG-17		75	4.0	16.7	7620	69.7
EMOG-17		71	3.7	16.2	7410	64.0
EMOG-17		73	3.5	16.2	7450	58.9
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		133	2.3	37.1	1060	140.0
GBM321-8		136	3.4	36.7	1050	145.0
GBM321-8		137	5.4	36.3	1050	125.0
GBM321-8		138	3.1	34.5	1045	129.0
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
MRGeo08		113	5.2	27.9	840	115.0
MRGeo08		108	4.4	27.3	806	118.5
MRGeo08		110	4.5	24.2	804	99.2
MRGeo08		109	4.9	26.9	798	112.5
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0
OREAS 237						
OREAS 237						
OREAS 237						
OREAS 237						
OREAS 237						
Target Range - Lower Bound						
Upper Bound						

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>STANDARDS</b>																	
OREAS 253		1.215															
OREAS 253		1.260															
OREAS 253		1.240															
OREAS 253		1.200															
Target Range - Lower Bound		1.140															
Upper Bound		1.300															
OREAS 262		0.099															
OREAS 262		0.098															
Target Range - Lower Bound		0.088															
Upper Bound		0.110															
OREAS 507				1.37	7.71	52.9	1100	2.48	1.68	1.80	0.77	72.7	7.8	45	11.35	6380	
OREAS 507				1.39	7.18	50.6	1080	2.44	1.66	1.73	0.74	68.6	13.8	43	10.25	6280	
OREAS 507				1.30	7.42	50.7	1080	2.52	1.70	1.71	0.73	72.9	7.6	45	11.05	6140	
Target Range - Lower Bound				1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780	
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660	
OXPI72			14.55														
Target Range - Lower Bound			14.10														
Upper Bound			16.00														
TAZ-20		0.316															
TAZ-20		0.301															
Target Range - Lower Bound		0.279															
Upper Bound		0.325															
<b>BLANKS</b>																	
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
BLANK		<0.005															
BLANK		0.006															
BLANK		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															

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 No: 825, Corporate Site No: 818.

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
OREAS 253																
OREAS 253																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		3.19	19.85	0.11	2.0	0.152	3.19	37.0	49.3	0.73	357	119.5	2.14	12.5	15.8	890
OREAS 507		3.07	18.30	0.12	1.8	0.159	3.13	32.9	51.0	0.70	349	116.0	2.09	12.0	15.5	890
OREAS 507		3.00	19.65	0.15	1.9	0.141	2.71	35.9	48.5	0.68	346	119.5	2.07	12.4	15.4	870
Target Range - Lower Bound		2.81	18.20	<0.05	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770
Upper Bound		3.45	22.4	0.10	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970
OXPI72																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
OREAS 253																
OREAS 253																
OREAS 253																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		38.0	178.0	0.085	0.77	5.36	8.1	4	5.1	226	1.04	0.72	13.60	0.361	0.88	3.8
OREAS 507		37.9	166.0	0.084	0.76	5.22	7.8	4	4.8	216	0.98	0.70	12.60	0.354	0.86	3.6
OREAS 507		36.2	150.5	0.080	0.73	5.72	8.3	5	5.1	218	1.03	0.72	13.45	0.346	0.92	3.5
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6
OXPI72																
Target Range - Lower Bound																
Upper Bound																
TAZ-20																
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
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BLANK																
Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
OREAS 253						
OREAS 253						
OREAS 253						
OREAS 253						
Target Range - Lower Bound						
Upper Bound						
OREAS 262						
OREAS 262						
Target Range - Lower Bound						
Upper Bound						
OREAS 507		64	9.9	16.7	161	73.6
OREAS 507		64	8.7	15.8	159	66.3
OREAS 507		64	9.8	15.8	160	59.0
Target Range - Lower Bound		58	7.8	13.9	143	53.9
Upper Bound		73	10.8	17.2	179	74.1
OXPI72						
Target Range - Lower Bound						
Upper Bound						
TAZ-20						
TAZ-20						
Target Range - Lower Bound						
Upper Bound						
<b>BLANKS</b>						
BLANK						
BLANK						
BLANK						
BLANK						
BLANK						
BLANK						
Target Range - Lower Bound						
Upper Bound						

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>BLANKS</b>																
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	0.1	<1	<0.05	0.5
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.5
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4
<b>DUPLICATES</b>																
TRD001051		0.021														
DUP		0.021														
Target Range - Lower Bound		0.015														
Upper Bound		0.027														
TRD001163		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001183		0.016														
DUP		0.012														
Target Range - Lower Bound		0.008														
Upper Bound		0.020														
TRD001203		0.151														
DUP		0.096														
Target Range - Lower Bound		0.112														
Upper Bound		0.135														



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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.3	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.5	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20
<b>DUPLICATES</b>																
TRD001051																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001163																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001183																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001203																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		0.9	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2
<b>DUPLICATES</b>																
TRD001051																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001163																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001183																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001203																
DUP																
Target Range - Lower Bound																
Upper Bound																

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



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
<b>BLANKS</b>						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0
<b>DUPLICATES</b>						
TRD001051						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001163						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001183						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001203						
DUP						
Target Range - Lower Bound						
Upper Bound						

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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD001326				0.07	8.02	0.5	510	2.95	0.56	0.10	0.03	96.0	15.6	70	10.65	79.3
DUP				0.07	7.64	0.5	490	2.56	0.58	0.10	0.02	78.7	14.6	68	8.90	71.7
Target Range - Lower Bound				0.06	7.43	0.3	450	2.57	0.53	0.09	<0.02	83.0	14.2	65	9.24	72.7
Upper Bound				0.08	8.23	0.7	550	2.94	0.61	0.12	0.04	91.7	16.0	73	10.30	78.3
TRD001341				0.01	3.46	6.5	340	0.88	0.15	0.01	0.02	163.5	2.4	40	4.12	11.5
DUP				0.01	3.37	5.8	340	0.91	0.14	0.01	<0.02	144.0	2.2	39	3.75	10.8
Target Range - Lower Bound				<0.01	3.23	5.6	300	0.80	0.13	<0.01	<0.02	146.0	2.1	37	3.69	10.6
Upper Bound				0.02	3.60	6.7	380	0.99	0.16	0.02	0.04	161.5	2.5	42	4.18	11.7
TRD001350		0.063														
DUP		0.063														
Target Range - Lower Bound		0.055														
Upper Bound		0.071														
TRD001407		0.009														
DUP		0.012														
Target Range - Lower Bound		<0.005														
Upper Bound		0.016														
TRD001409				0.05	6.91	33.5	480	2.79	0.39	0.19	0.05	81.1	16.2	63	9.98	28.9
DUP				0.05	7.21	29.4	490	2.87	0.40	0.19	0.04	89.8	16.4	61	10.50	29.6
Target Range - Lower Bound				0.04	6.70	29.7	440	2.64	0.37	0.17	<0.02	81.2	15.4	58	9.68	28.0
Upper Bound				0.06	7.42	33.2	530	3.02	0.42	0.21	0.07	89.7	17.2	66	10.80	30.5
TRD001427		0.007														
DUP		0.006														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001428				0.06	8.78	13.4	540	2.44	0.45	0.01	0.02	23.2	3.3	69	4.69	36.3
DUP				0.06	8.72	13.2	540	2.41	0.43	0.01	<0.02	23.6	3.3	71	4.71	36.2
Target Range - Lower Bound				0.05	8.30	12.4	490	2.25	0.41	<0.01	<0.02	22.2	3.0	66	4.42	34.8
Upper Bound				0.07	9.20	14.2	590	2.60	0.47	0.02	0.04	24.6	3.6	75	4.99	37.7
TRD001443				0.06	7.67	15.2	460	2.95	0.49	0.01	0.83	97.4	11.9	66	11.60	39.8
DUP				0.07	7.67	15.4	460	2.97	0.49	0.01	0.81	91.9	12.2	64	11.60	40.8
Target Range - Lower Bound				0.05	7.28	14.3	420	2.76	0.46	<0.01	0.76	89.9	11.3	61	10.95	38.7
Upper Bound				0.08	8.06	16.3	500	3.16	0.52	0.02	0.88	99.4	12.8	69	12.25	41.9



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**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001326		4.09	22.6	0.16	3.0	0.078	3.18	43.8	38.2	1.39	1080	0.51	0.59	14.5	39.1	440
DUP		3.94	20.4	0.13	2.7	0.064	3.08	37.5	34.3	1.32	1050	0.46	0.56	12.8	36.7	420
Target Range - Lower Bound		3.80	20.4	0.08	2.6	0.062	2.96	38.1	34.2	1.28	1005	0.41	0.54	12.9	35.8	400
Upper Bound		4.23	22.6	0.21	3.1	0.080	3.30	43.2	38.3	1.43	1125	0.56	0.61	14.4	40.0	460
TRD001341		1.57	9.12	0.14	3.8	0.033	1.18	72.7	6.7	0.23	131	0.57	0.04	9.3	7.5	400
DUP		1.54	8.60	0.13	3.7	0.032	1.16	67.4	6.3	0.22	129	0.52	0.04	8.5	7.2	400
Target Range - Lower Bound		1.47	8.37	0.07	3.5	0.026	1.10	66.0	6.0	0.20	119	0.47	0.03	8.4	6.8	370
Upper Bound		1.64	9.35	0.20	4.0	0.039	1.24	74.1	7.0	0.25	142	0.62	0.05	9.4	7.9	430
TRD001350																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001407																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001409		3.64	17.80	0.10	3.6	0.059	2.70	40.4	34.3	1.59	1010	2.80	0.58	14.0	40.2	500
DUP		3.71	17.90	0.11	3.6	0.060	2.78	45.7	34.0	1.62	1015	2.73	0.59	14.2	41.4	510
Target Range - Lower Bound		3.48	16.90	<0.05	3.3	0.052	2.59	40.4	32.2	1.51	957	2.58	0.55	13.3	38.6	470
Upper Bound		3.87	18.80	0.16	3.9	0.067	2.89	45.7	36.1	1.70	1070	2.95	0.62	14.9	43.0	540
TRD001427																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001428		2.65	21.8	0.06	3.8	0.082	2.85	11.8	11.0	0.26	248	0.22	0.10	16.4	23.4	100
DUP		2.64	21.9	0.07	3.7	0.084	2.80	12.2	11.0	0.26	245	0.19	0.10	16.2	23.1	110
Target Range - Lower Bound		2.50	20.7	<0.05	3.5	0.074	2.67	10.9	10.3	0.24	229	0.14	0.09	15.4	21.9	90
Upper Bound		2.79	23.0	0.10	4.0	0.092	2.98	13.1	11.8	0.28	264	0.27	0.12	17.2	24.6	120
TRD001443		2.37	20.1	0.11	3.6	0.064	2.87	53.9	24.8	0.77	283	1.59	0.08	16.5	29.1	100
DUP		2.37	20.3	0.13	3.6	0.069	2.88	49.9	25.3	0.77	285	1.62	0.08	16.7	29.6	110
Target Range - Lower Bound		2.24	19.15	0.06	3.3	0.058	2.72	48.8	23.6	0.72	265	1.47	0.07	15.7	27.7	90
Upper Bound		2.50	21.3	0.18	3.9	0.075	3.03	55.0	26.5	0.82	303	1.74	0.09	17.5	31.0	120



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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001326		16.0	203	<0.002	0.02	0.67	14.8	<1	4.2	50.5	1.24	<0.05	17.70	0.402	0.88	2.9
DUP		14.1	184.0	<0.002	0.02	0.61	13.6	<1	3.8	45.0	1.10	<0.05	16.20	0.386	0.77	2.6
Target Range - Lower Bound		13.8	183.5	<0.002	<0.01	0.54	13.4	<1	3.6	45.2	1.06	<0.05	16.10	0.369	0.74	2.5
Upper Bound		16.3	203	0.004	0.03	0.74	15.0	2	4.4	50.3	1.28	0.10	17.80	0.419	0.91	3.0
TRD001341		7.1	72.4	<0.002	0.01	0.63	11.2	<1	2.2	22.6	0.81	<0.05	12.70	0.279	0.31	2.2
DUP		6.5	63.9	<0.002	0.01	0.60	10.6	<1	2.1	20.2	0.75	<0.05	11.45	0.276	0.29	2.0
Target Range - Lower Bound		6.0	64.6	<0.002	<0.01	0.52	10.3	<1	1.8	20.1	0.69	<0.05	11.45	0.259	0.26	1.9
Upper Bound		7.6	71.7	0.004	0.02	0.71	11.5	2	2.5	22.7	0.87	0.10	12.70	0.296	0.34	2.3
TRD001350																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001407																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001409		14.8	162.5	0.003	0.46	0.87	12.6	1	3.5	43.9	1.06	<0.05	14.00	0.373	0.98	3.1
DUP		15.8	178.0	0.003	0.47	1.02	12.6	<1	3.7	43.8	1.07	0.05	15.15	0.380	0.99	3.2
Target Range - Lower Bound		14.0	161.5	<0.002	0.43	0.82	11.9	<1	3.2	41.5	0.96	<0.05	13.85	0.353	0.89	2.9
Upper Bound		16.6	179.0	0.004	0.50	1.07	13.3	2	4.0	46.2	1.17	0.10	15.30	0.400	1.08	3.4
TRD001427																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001428		15.4	133.0	<0.002	0.02	0.73	15.4	<1	4.2	36.5	1.26	<0.05	22.2	0.469	0.45	2.9
DUP		15.3	134.0	<0.002	0.02	0.71	15.7	<1	4.3	36.7	1.27	<0.05	21.9	0.466	0.45	2.9
Target Range - Lower Bound		14.1	126.5	<0.002	<0.01	0.62	14.7	<1	3.8	34.6	1.15	<0.05	20.9	0.439	0.40	2.7
Upper Bound		16.6	140.5	0.004	0.03	0.82	16.4	2	4.7	38.6	1.38	0.10	23.2	0.496	0.50	3.1
TRD001443		11.5	161.5	<0.002	0.23	3.57	12.6	<1	4.0	42.0	1.24	<0.05	18.75	0.408	0.78	2.9
DUP		11.8	160.0	<0.002	0.24	3.76	12.7	<1	4.3	42.0	1.26	<0.05	17.90	0.410	0.79	3.0
Target Range - Lower Bound		10.6	152.5	<0.002	0.21	3.34	11.9	<1	3.7	39.7	1.14	<0.05	17.40	0.384	0.71	2.7
Upper Bound		12.7	169.0	0.004	0.26	3.99	13.4	2	4.6	44.3	1.36	0.10	19.25	0.434	0.86	3.2



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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001326		98	2.9	22.4	101	109.0
DUP		95	2.6	19.9	97	99.5
Target Range - Lower Bound		91	2.4	20.0	92	95.9
Upper Bound		102	3.1	22.3	106	112.5
TRD001341		43	4.9	11.8	17	150.0
DUP		42	4.4	11.0	17	140.5
Target Range - Lower Bound		39	4.2	10.7	14	134.0
Upper Bound		46	5.1	12.1	20	156.5
TRD001350						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001407						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001409		92	4.9	29.1	105	120.0
DUP		93	5.0	30.1	107	121.0
Target Range - Lower Bound		87	4.5	28.0	99	111.0
Upper Bound		98	5.4	31.2	113	130.0
TRD001427						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001428		100	3.9	11.7	86	148.5
DUP		99	3.8	11.6	85	149.5
Target Range - Lower Bound		94	3.5	11.0	79	137.5
Upper Bound		105	4.2	12.3	92	160.5
TRD001443		89	8.1	28.6	106	143.0
DUP		91	8.1	28.1	106	142.5
Target Range - Lower Bound		85	7.4	26.8	99	131.5
Upper Bound		96	8.8	29.9	113	154.0



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ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD001447		0.009															
DUP		0.007															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001462				0.12	7.31	15.4	440	3.11	0.41	0.01	0.11	83.0	12.5	68	9.08	41.5	
DUP				0.13	7.39	15.0	450	3.17	0.41	0.01	0.11	83.3	12.7	74	9.06	41.8	
Target Range - Lower Bound				0.11	6.97	14.2	400	2.93	0.38	<0.01	0.08	79.0	11.9	66	8.57	40.0	
Upper Bound				0.14	7.73	16.2	490	3.35	0.44	0.02	0.14	87.3	13.3	76	9.57	43.3	
TRD001477				0.15	7.23	29.6	390	2.77	0.43	0.01	0.16	86.1	12.2	74	13.55	35.0	
DUP				0.15	7.31	30.9	400	2.84	0.43	0.01	0.14	87.1	12.6	73	13.65	36.2	
Target Range - Lower Bound				0.13	6.90	28.5	360	2.61	0.40	<0.01	0.12	82.3	11.7	69	12.85	34.2	
Upper Bound				0.17	7.64	32.0	430	3.00	0.46	0.02	0.18	90.9	13.1	78	14.35	37.0	
TRD001484		0.013															
DUP		0.012															
Target Range - Lower Bound		0.007															
Upper Bound		0.018															
TRD001496				0.02	6.90	5.2	380	2.69	0.26	0.14	0.05	96.5	15.9	58	14.40	26.9	
DUP				0.02	6.61	4.9	360	2.42	0.26	0.14	0.04	85.4	15.8	57	13.05	35.9	
Target Range - Lower Bound				<0.01	6.41	4.6	330	2.38	0.24	0.12	<0.02	86.4	15.0	54	13.00	30.1	
Upper Bound				0.03	7.10	5.5	410	2.73	0.28	0.16	0.07	95.5	16.7	61	14.45	32.7	
TRD001511				0.01	4.76	4.4	340	1.86	0.17	0.14	0.03	65.5	12.2	43	7.88	17.8	
DUP				0.02	4.77	5.0	340	1.86	0.17	0.14	0.03	63.6	13.2	45	7.59	19.6	
Target Range - Lower Bound				<0.01	4.52	4.3	300	1.72	0.15	0.12	<0.02	61.3	12.0	41	7.30	17.8	
Upper Bound				0.02	5.01	5.1	380	2.00	0.19	0.16	0.04	67.8	13.4	47	8.17	19.6	
ORIGINAL		<0.005															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
ORIGINAL		<0.005															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															



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 Account: TINONEAUS

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001447 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001462 DUP		3.08	18.15	0.10	3.2	0.072	2.85	43.0	56.2	0.36	52	2.52	0.09	11.4	32.9	480
Target Range - Lower Bound		3.13	18.30	0.12	3.2	0.069	2.88	43.9	54.2	0.36	53	2.53	0.11	12.0	33.2	490
Upper Bound		2.94	17.25	<0.05	2.9	0.062	2.71	40.8	52.2	0.33	45	2.35	0.09	11.0	31.2	450
TRD001477 DUP		3.11	17.95	0.11	3.8	0.062	2.90	45.0	41.0	0.37	104	3.94	0.08	13.0	25.0	270
Target Range - Lower Bound		3.20	18.15	0.11	3.8	0.063	2.97	45.1	41.3	0.38	107	4.18	0.10	13.3	26.3	280
Upper Bound		2.99	17.10	<0.05	3.5	0.054	2.78	42.3	38.9	0.35	95	3.81	0.08	12.4	24.2	250
TRD001484 DUP		3.32	19.00	0.17	4.1	0.071	3.09	47.8	43.4	0.40	116	4.31	0.10	13.9	27.1	300
TRD001496 DUP		3.98	16.75	0.13	3.8	0.060	2.71	46.5	39.1	1.22	1685	0.64	0.13	14.0	33.9	560
Target Range - Lower Bound		3.80	15.30	0.12	3.5	0.047	2.55	41.3	34.6	1.17	1610	0.63	0.13	13.6	33.0	530
Upper Bound		3.69	15.15	0.07	3.4	0.046	2.49	41.2	34.8	1.13	1560	0.55	0.11	13.0	31.6	510
TRD001511 DUP		4.09	16.90	0.18	3.9	0.061	2.77	46.6	38.9	1.26	1735	0.72	0.15	14.6	35.3	580
TRD001511 DUP		2.50	10.85	0.10	2.7	0.030	1.73	31.7	28.1	0.86	730	0.82	0.24	9.7	24.0	700
Target Range - Lower Bound		2.51	10.80	0.10	2.7	0.046	1.73	30.9	27.3	0.87	736	0.82	0.24	9.9	25.9	690
Upper Bound		2.37	10.25	<0.05	2.5	0.031	1.63	29.2	26.1	0.81	691	0.73	0.22	9.2	23.5	650
ORIGINAL DUP		2.64	11.40	0.16	2.9	0.045	1.83	33.4	29.3	0.92	775	0.91	0.26	10.4	26.4	740
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001447 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001462 DUP		23.0	177.5	0.002	1.22	5.43	12.2	1	3.7	31.0	0.89	0.07	16.40	0.325	0.98	2.6
Target Range - Lower Bound		22.8	179.0	0.002	1.25	5.49	12.3	1	3.8	31.4	0.87	0.08	16.40	0.342	1.05	2.6
Upper Bound		21.3	169.0	<0.002	1.16	5.00	11.5	<1	3.4	29.4	0.79	<0.05	15.55	0.312	0.92	2.4
Target Range - Lower Bound		24.5	187.5	0.004	1.31	5.92	13.0	2	4.1	33.0	0.97	0.10	17.25	0.355	1.11	2.8
Upper Bound																
TRD001477 DUP		26.5	192.0	0.003	1.70	7.84	12.2	1	3.7	68.2	0.97	0.05	17.10	0.357	1.27	4.0
Target Range - Lower Bound		27.3	214	0.003	1.78	8.25	12.3	1	3.7	71.5	0.99	0.06	18.50	0.364	1.28	4.2
Upper Bound		25.1	193.0	<0.002	1.64	7.39	11.5	<1	3.3	66.2	0.88	<0.05	16.90	0.337	1.16	3.8
Target Range - Lower Bound		28.7	213	0.004	1.84	8.70	13.0	2	4.1	73.5	1.08	0.10	18.70	0.384	1.39	4.4
Upper Bound																
TRD001484 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001496 DUP		14.9	188.0	<0.002	0.04	1.42	11.2	<1	3.5	26.5	1.14	<0.05	17.05	0.421	0.91	3.1
Target Range - Lower Bound		14.2	182.5	<0.002	0.04	1.34	10.2	<1	3.1	25.9	1.04	<0.05	15.45	0.402	0.82	2.8
Upper Bound		13.3	176.0	<0.002	0.03	1.23	10.1	<1	2.9	24.7	0.99	<0.05	15.45	0.386	0.78	2.7
Target Range - Lower Bound		15.8	194.5	0.004	0.05	1.53	11.3	2	3.7	27.7	1.19	0.10	17.05	0.437	0.95	3.2
Upper Bound																
TRD001511 DUP		12.1	125.0	<0.002	0.03	1.04	7.0	<1	2.3	51.0	0.73	<0.05	10.85	0.299	0.60	2.3
Target Range - Lower Bound		12.2	131.0	<0.002	0.03	1.04	6.9	<1	2.3	53.2	0.75	<0.05	10.75	0.299	0.63	2.3
Upper Bound		11.0	121.5	<0.002	0.02	0.91	6.5	<1	2.0	49.3	0.65	<0.05	10.25	0.279	0.55	2.1
Target Range - Lower Bound		13.3	134.5	0.004	0.04	1.17	7.4	2	2.6	54.9	0.83	0.10	11.35	0.319	0.68	2.5
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22092015**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001447 DUP Target Range - Lower Bound Upper Bound						
TRD001462 DUP Target Range - Lower Bound Upper Bound		113 111 105 119	3.0 3.0 2.7 3.3	16.2 16.8 15.6 17.4	41 42 37 46	131.0 128.0 119.5 139.5
TRD001477 DUP Target Range - Lower Bound Upper Bound		97 99 92 104	4.6 4.7 4.2 5.1	21.3 22.2 20.6 22.9	38 39 35 42	148.0 151.5 138.0 161.5
TRD001484 DUP Target Range - Lower Bound Upper Bound						
TRD001496 DUP Target Range - Lower Bound Upper Bound		77 76 72 81	9.5 8.8 8.4 9.9	25.6 26.2 24.5 27.3	88 83 79 92	143.5 145.0 133.0 155.5
TRD001511 DUP Target Range - Lower Bound Upper Bound		52 51 48 55	3.7 3.7 3.3 4.1	17.8 18.7 17.2 19.3	65 66 60 71	109.5 112.5 102.0 120.0
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						

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**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														

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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ORIGINAL DUP Target Range – Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<b>DUPLICATES</b>														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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**QC CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<b>DUPLICATES</b>				
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22092015**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21



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 Account: TINONEAUS

**QC CERTIFICATE BU22106480**

Project: Panama Project  
 P.O. No.: TIN0009  
 This report is for 182 samples of Percussion Chip submitted to our lab in Burnie,  
 TAS, Australia on 27-APR-2022.  
 The following have access to data associated with this certificate:  
 TINONE\_QUEST EARTHSQL      RUSSELL FULTON      STUART SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS

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:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
EMOG-17				65.9	4.38	525	600	1.74	5.60	1.84	21.1	43.6	706	51	7.29	8060
EMOG-17				67.1	4.48	529	620	1.82	5.55	1.89	20.9	45.4	726	53	7.40	8180
EMOG-17				66.2	4.53	576	420	1.86	5.79	1.87	20.6	44.5	718	54	7.15	8100
EMOG-17				68.5	4.67	586	570	1.76	5.70	1.91	20.7	47.3	761	52	7.91	8320
EMOG-17				68.6	4.58	582	770	1.96	5.92	1.93	20.9	46.5	759	53	7.36	8380
EMOG-17				66.1	4.59	576	620	1.83	5.72	1.88	19.95	47.1	739	54	7.30	8080
Target Range - Lower Bound				60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750
Upper Bound				74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910
G319-9			98.7													
Target Range - Lower Bound			91.4													
Upper Bound			103.0													
GBM321-8				2.80	6.86	59.3	1070	1.50	1.12	3.74	1.81	104.0	25.7	140	3.83	3460
GBM321-8				2.89	6.94	57.7	1070	1.46	1.00	3.74	1.81	102.5	25.2	138	3.84	3500
GBM321-8				2.75	6.98	56.3	1080	1.43	1.04	3.77	1.65	112.0	26.9	139	3.93	3450
Target Range - Lower Bound				2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3380
Upper Bound				3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3890
GLG313-1		0.034														
GLG313-1		0.033														
Target Range - Lower Bound		0.021														
Upper Bound		0.041														
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19			2.50													
Target Range - Lower Bound			2.23													
Upper Bound			2.63													
MRGeo08				4.52	7.66	34.3	1080	3.43	0.66	2.68	2.37	77.9	19.8	92	13.40	619
MRGeo08				4.45	7.61	35.6	1080	3.42	0.68	2.66	2.38	85.3	20.3	89	13.25	624
Target Range - Lower Bound				3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587
Upper Bound				4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675
OREAS 237		2.23														
Target Range - Lower Bound		2.07														
Upper Bound		2.35														



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**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
EMOG-17		4.60	11.90	0.32	1.8	0.926	1.53	22.3	25.7	0.90	710	1075	1.07	13.8	7210	760
EMOG-17		4.73	11.95	0.28	1.8	0.922	1.61	23.3	27.2	0.93	724	1100	1.10	13.9	7370	780
EMOG-17		4.70	12.10	0.17	1.8	0.917	1.60	23.1	26.6	0.93	721	1100	1.10	14.3	7600	790
EMOG-17		4.91	11.90	0.10	1.8	0.894	1.62	23.9	26.8	0.96	741	1100	1.11	13.8	7460	810
EMOG-17		4.94	12.00	0.10	2.0	0.929	1.65	24.2	27.0	0.96	747	1105	1.10	14.6	7740	780
EMOG-17		4.76	11.90	0.12	2.0	0.909	1.63	25.2	25.8	0.93	723	1060	1.09	14.2	7440	780
Target Range - Lower Bound		4.42	10.75	0.06	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700
Upper Bound		5.42	13.25	0.30	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		5.42	20.2	0.38	3.3	0.079	2.04	53.9	11.0	1.81	781	61.3	2.17	10.0	2170	930
GBM321-8		5.44	19.85	0.37	3.8	0.082	2.08	52.6	10.9	1.81	780	63.6	2.18	10.0	2170	970
GBM321-8		5.41	20.9	0.14	3.7	0.068	2.04	56.7	11.3	1.81	785	61.6	2.16	10.5	2250	930
Target Range - Lower Bound		4.98	18.65	0.12	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	
Upper Bound		6.10	22.9	0.36	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2480	
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		3.92	18.85	0.30	3.1	0.179	3.15	39.4	33.2	1.36	557	15.55	2.02	21.0	695	1020
MRGeo08		3.94	19.80	0.14	3.3	0.161	3.15	43.0	35.7	1.33	557	15.55	2.00	21.6	696	1000
Target Range - Lower Bound		3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930
Upper Bound		4.37	21.5	0.28	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160
OREAS 237																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
EMOG-17		6840	109.5	0.313	3.06	753	8.0	7	2.7	197.0	0.89	1.40	10.45	0.302	2.05	2.9
EMOG-17		7010	110.0	0.317	3.10	774	8.0	7	2.7	201	0.89	1.37	11.15	0.316	2.05	3.1
EMOG-17		7190	108.0	0.313	3.12	772	8.0	7	2.7	198.5	0.93	1.36	11.40	0.317	2.18	3.1
EMOG-17		7330	109.5	0.313	3.24	776	8.0	6	2.6	202	0.90	1.44	10.60	0.313	2.02	3.2
EMOG-17		7040	111.5	0.344	3.15	775	8.0	7	2.8	205	0.95	1.34	11.10	0.320	2.18	3.1
EMOG-17		7160	109.5	0.318	3.18	777	7.5	6	2.7	201	0.95	1.32	10.80	0.320	2.10	3.2
Target Range - Lower Bound		6570	98.9	0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8
Upper Bound		8030	121.0	0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7
G319-9																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		1970	172.5	<0.002	0.43	1.74	19.4	1	3.2	282	0.71	0.05	17.85	0.640	1.19	2.1
GBM321-8		1990	165.5	<0.002	0.41	1.66	19.2	1	3.2	284	0.68	0.05	18.00	0.648	1.23	2.0
GBM321-8		2000	168.0	<0.002	0.40	1.68	17.8	1	3.1	288	0.79	0.05	17.70	0.635	1.22	2.2
Target Range - Lower Bound		1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.01	2.0
Upper Bound		2250	187.0	0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.41	2.6
GLG313-1																
GLG313-1																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
KIP-19																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1065	211	0.010	0.30	4.59	13.4	1	4.0	306	1.46	<0.05	22.2	0.494	1.06	5.3
MRGeo08		1075	227	0.008	0.30	4.69	12.4	1	4.2	304	1.58	<0.05	23.1	0.484	1.07	6.0
Target Range - Lower Bound		971	173.5	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9
Upper Bound		1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2
OREAS 237																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
EMOG-17		67	3.8	15.2	7100	65.6
EMOG-17		70	3.8	15.0	7270	64.8
EMOG-17		71	3.9	15.6	7400	63.5
EMOG-17		72	3.5	14.7	7460	62.6
EMOG-17		75	4.0	15.1	7470	68.3
EMOG-17		73	4.1	15.8	7470	62.8
Target Range - Lower Bound		67	3.3	14.3	6800	55.6
Upper Bound		84	4.7	17.7	8320	76.4
G319-9						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		133	3.1	35.1	1025	133.0
GBM321-8		135	3.4	35.2	1030	140.0
GBM321-8		136	3.5	38.1	1060	144.0
Target Range - Lower Bound		123	2.9	35.2	961	117.5
Upper Bound		153	4.1	43.2	1180	160.5
GLG313-1						
GLG313-1						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
KIP-19						
Target Range - Lower Bound						
Upper Bound						
MRGeo08		105	4.9	26.6	791	115.0
MRGeo08		107	4.9	29.7	808	111.5
Target Range - Lower Bound		97	4.1	23.8	722	92.2
Upper Bound		121	5.8	29.3	886	126.0
OREAS 237						
Target Range - Lower Bound						
Upper Bound						



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**QC CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>STANDARDS</b>																
OREAS 253		1.265														
Target Range - Lower Bound		1.140														
Upper Bound		1.300														
OREAS 262		0.106														
Target Range - Lower Bound		0.088														
Upper Bound		0.110														
OREAS 507				1.37	7.41	47.2	1060	2.50	1.65	1.74	0.75	76.8	7.5	44	11.50	6040
OREAS 507				1.32	7.16	45.3	1040	2.40	1.65	1.73	0.70	69.2	7.5	45	11.20	6000
OREAS 507				1.38	7.36	51.5	1080	2.43	1.67	1.77	0.73	66.3	7.9	49	10.35	6150
OREAS 507				1.38	7.53	54.8	1080	2.71	1.76	1.76	0.76	72.2	7.8	44	11.85	6220
OREAS 507				1.38	7.43	52.2	1070	2.43	1.67	1.75	0.76	73.5	7.6	46	11.80	6270
OREAS 507				1.32	7.12	51.3	1070	2.36	1.68	1.67	0.74	70.6	8.0	47	10.85	5940
Target Range - Lower Bound				1.20	6.68	41.8	930	2.25	1.59	1.53	0.60	63.0	7.0	38	9.76	5780
Upper Bound				1.48	8.18	51.6	1280	2.86	1.97	1.89	0.78	77.0	8.8	49	12.05	6660
TAZ-20		0.313														
TAZ-20		0.312														
Target Range - Lower Bound		0.279														
Upper Bound		0.325														
<b>BLANKS</b>																
BLANK		<0.005														
BLANK		0.006														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			0.10													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.5
BLANK				<0.01	<0.01	0.3	<10	<0.05	<0.01	<0.01	<0.02	0.03	0.1	1	<0.05	1.2
BLANK				<0.01	<0.01	0.3	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.5
BLANK				<0.01	<0.01	0.3	<10	<0.05	<0.01	<0.01	<0.02	0.02	<0.1	<1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.2
BLANK				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3
Target Range - Lower Bound				<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2
Upper Bound				0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		3.03	18.90	0.27	1.9	0.144	3.02	37.8	50.3	0.70	342	118.5	2.07	12.2	16.4	830
OREAS 507		2.96	18.95	0.28	1.9	0.146	2.98	33.0	52.3	0.68	339	116.0	2.03	11.9	16.0	820
OREAS 507		3.06	19.40	0.16	2.0	0.154	3.10	32.0	49.1	0.69	350	115.5	2.14	12.4	16.4	850
OREAS 507		3.13	20.5	0.12	2.0	0.174	3.10	33.3	55.8	0.71	353	119.0	2.12	12.4	16.8	880
OREAS 507		3.10	19.80	0.10	2.0	0.152	3.09	35.8	45.5	0.70	351	119.5	2.08	12.7	16.0	820
OREAS 507		2.96	19.30	0.12	1.9	0.136	3.03	34.1	49.8	0.67	331	110.5	2.04	12.2	17.4	840
Target Range - Lower Bound		2.81	18.20	<0.05	1.7	0.130	2.75	30.0	44.8	0.63	310	102.5	1.88	11.2	14.3	770
Upper Bound		3.45	22.4	0.10	2.3	0.170	3.39	37.8	55.2	0.79	390	125.5	2.32	14.0	17.9	970
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.05	0.02	<0.1	0.4	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.4	<10
BLANK		<0.01	<0.05	0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.5	<10
BLANK		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	0.01	<0.1	0.2	<10
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10
Upper Bound		0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20



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 No: 825, Corporate Site No: 818.

Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>STANDARDS</b>																
OREAS 253																
Target Range - Lower Bound																
Upper Bound																
OREAS 262																
Target Range - Lower Bound																
Upper Bound																
OREAS 507		37.0	168.0	0.086	0.73	5.61	8.3	4	5.0	219	1.02	0.69	15.25	0.344	0.90	4.1
OREAS 507		36.3	155.5	0.088	0.71	5.23	8.2	4	4.8	213	1.00	0.71	13.75	0.339	0.87	3.7
OREAS 507		37.0	154.5	0.082	0.75	5.46	8.0	5	5.3	220	1.06	0.69	12.75	0.356	0.87	3.2
OREAS 507		38.2	166.5	0.089	0.75	5.67	8.6	4	5.2	217	1.05	0.78	13.20	0.349	0.90	4.0
OREAS 507		37.9	174.0	0.087	0.74	5.50	8.2	4	5.3	217	1.08	0.74	15.20	0.343	0.90	4.2
OREAS 507		38.7	158.0	0.079	0.73	5.53	7.8	3	4.9	211	1.08	0.67	13.55	0.347	0.91	3.5
Target Range - Lower Bound		32.9	146.5	0.075	0.66	4.47	7.5	2	4.3	195.0	0.97	0.54	12.50	0.310	0.77	3.6
Upper Bound		41.3	179.5	0.096	0.82	6.17	9.3	6	5.7	239	1.29	0.80	15.30	0.390	1.09	4.6
TAZ-20																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.1	<0.002	<0.01	0.10	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	0.1	<0.002	0.02	0.13	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		0.7	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
BLANK		<0.5	<0.1	<0.002	0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Target Range - Lower Bound		<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1
Upper Bound		1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>STANDARDS</b>						
OREAS 253						
Target Range - Lower Bound						
Upper Bound						
OREAS 262						
Target Range - Lower Bound						
Upper Bound						
OREAS 507		62	10.0	15.6	160	68.2
OREAS 507		61	9.4	14.3	158	64.0
OREAS 507		64	9.2	15.0	164	65.8
OREAS 507		65	11.0	15.2	161	63.0
OREAS 507		65	8.6	15.0	159	69.8
OREAS 507		63	8.4	15.3	157	62.7
Target Range - Lower Bound		58	7.8	13.9	143	53.9
Upper Bound		73	10.8	17.2	179	74.1
TAZ-20						
TAZ-20						
Target Range - Lower Bound						
Upper Bound						
<b>BLANKS</b>						
BLANK						
BLANK						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
BLANK		<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<1	<0.1	<0.1	<2	<0.5
Upper Bound		2	0.2	0.2	4	1.0

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



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**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61													
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	
<b>DUPLICATES</b>																	
TRD001525		0.008															
DUP		<0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001526				0.22	7.38	634	680	2.25	0.39	0.79	0.06	77.2	13.6	127	9.47	30.8	
DUP				0.24	7.58	651	690	2.48	0.39	0.81	0.05	80.5	13.4	130	9.90	32.0	
Target Range - Lower Bound				0.21	7.10	610	620	2.20	0.36	0.75	0.03	74.9	12.7	121	9.15	30.1	
Upper Bound				0.25	7.86	675	750	2.53	0.42	0.85	0.08	82.8	14.3	136	10.20	32.7	
TRD001532				0.14	7.51	1110	520	6.06	0.26	0.01	0.07	250	96.9	84	9.64	112.0	
DUP				0.15	7.80	1165	550	6.35	0.26	0.01	0.06	257	100.5	88	9.20	117.0	
Target Range - Lower Bound				0.13	7.26	1080	480	5.84	0.24	<0.01	0.04	241	93.7	81	8.90	110.5	
Upper Bound				0.16	8.05	1195	590	6.57	0.28	0.02	0.09	266	103.5	91	9.94	118.5	
TRD001547		<0.005															
DUP		0.005															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															
TRD001569				0.06	7.83	5.0	210	0.75	0.05	6.52	0.10	28.1	39.0	5	1.50	138.0	
DUP				0.06	7.77	4.5	210	0.74	0.05	6.40	0.11	27.7	38.0	4	1.54	129.5	
Target Range - Lower Bound				0.05	7.40	4.3	180	0.66	0.04	6.13	0.08	26.5	36.5	3	1.39	129.0	
Upper Bound				0.07	8.20	5.2	240	0.83	0.06	6.79	0.13	29.3	40.5	6	1.65	138.5	
TRD001585		0.026															
DUP		0.024															
Target Range - Lower Bound		0.019															
Upper Bound		0.031															
TRD001605		0.034		0.06	9.42	336	410	2.12	0.37	0.35	0.07	53.0	5.9	80	7.68	25.4	
DUP		0.035		0.04	8.80	346	410	2.12	0.39	0.33	0.08	40.3	5.9	80	7.26	25.8	
Target Range - Lower Bound		0.028		0.04	8.64	324	370	1.96	0.35	0.31	0.05	44.3	5.5	75	7.05	24.5	
Upper Bound		0.041		0.06	9.58	358	450	2.28	0.41	0.37	0.10	49.0	6.3	85	7.89	26.7	
TRD001625		0.007															
DUP		0.009															
Target Range - Lower Bound		<0.005															
Upper Bound		0.010															



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Project: Panama Project

**QC CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001525 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001526 DUP		3.94	19.05	0.11	3.8	0.065	2.71	38.8	39.9	1.54	342	0.70	0.68	14.7	61.3	540
Target Range - Lower Bound		4.01	19.50	0.10	3.9	0.068	2.78	39.9	43.0	1.58	352	0.82	0.70	14.6	62.6	560
Upper Bound		3.77	18.25	<0.05	3.6	0.058	2.60	36.9	39.2	1.47	325	0.67	0.65	13.8	58.7	510
TRD001532 DUP		9.80	19.00	0.44	2.0	0.069	2.61	100.5	51.5	0.27	3490	1.26	0.13	7.4	60.4	2160
Target Range - Lower Bound		10.25	19.60	0.42	2.1	0.055	2.69	101.5	52.1	0.29	3680	1.26	0.14	7.1	62.5	2280
Upper Bound		9.51	18.30	0.35	1.8	0.054	2.51	95.5	49.0	0.26	3400	1.15	0.12	6.8	58.2	2100
TRD001547 DUP		10.55	20.3	0.51	2.3	0.070	2.79	106.5	54.6	0.30	3770	1.37	0.15	7.7	64.7	2340
TRD001569 DUP		7.10	17.35	0.28	2.8	0.058	0.77	13.7	12.5	2.40	1235	0.50	1.44	5.2	42.0	390
Target Range - Lower Bound		6.95	16.55	0.27	2.7	0.060	0.75	13.2	11.6	2.40	1205	0.51	1.38	5.1	41.4	380
Upper Bound		6.66	16.05	0.20	2.5	0.051	0.71	12.3	11.2	2.27	1155	0.43	1.33	4.8	39.4	360
TRD001585 DUP		7.39	17.85	0.35	3.0	0.067	0.81	14.6	12.9	2.53	1285	0.58	1.49	5.5	44.0	410
TRD001605 DUP		5.42	25.2	0.48	2.6	0.076	2.00	24.9	16.5	0.42	222	1.24	0.63	11.6	21.2	280
Target Range - Lower Bound		5.39	24.0	0.34	2.5	0.087	2.00	17.5	17.0	0.39	221	1.33	0.64	11.5	22.6	280
Upper Bound		5.12	23.3	0.33	2.3	0.072	1.89	19.6	15.7	0.37	205	1.17	0.59	10.9	20.6	260
TRD001625 DUP		5.69	25.9	0.49	2.8	0.091	2.11	22.8	17.8	0.44	238	1.40	0.68	12.2	23.2	300
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001525 DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001526 DUP		19.2	161.5	<0.002	0.14	574	14.8	<1	4.0	97.8	1.10	<0.05	15.60	0.462	0.82	2.5
Target Range - Lower Bound		20.4	174.5	<0.002	0.15	589	15.2	<1	3.8	100.0	1.10	<0.05	16.25	0.473	0.87	2.5
Upper Bound		18.3	159.5	<0.002	0.13	538	14.2	<1	3.5	93.8	1.00	<0.05	15.10	0.439	0.76	2.3
TRD001532 DUP		16.6	158.5	<0.002	0.03	3.73	51.3	<1	3.6	34.2	0.58	0.06	17.00	0.211	2.22	7.1
Target Range - Lower Bound		16.8	161.0	<0.002	0.04	3.77	53.3	<1	3.6	34.9	0.54	0.06	17.15	0.213	2.30	7.1
Upper Bound		15.4	151.5	<0.002	0.02	3.42	49.6	<1	3.2	32.6	0.48	<0.05	16.20	0.196	2.07	6.6
TRD001547 DUP		18.0	168.0	0.004	0.05	4.08	55.0	2	4.0	36.5	0.64	0.10	17.95	0.228	2.45	7.6
TRD001569 DUP		8.3	25.1	<0.002	0.04	0.24	39.3	1	1.1	143.0	0.34	<0.05	3.54	0.408	0.21	1.0
Target Range - Lower Bound		8.6	30.6	<0.002	0.05	0.28	39.6	1	1.0	139.0	0.34	<0.05	3.60	0.396	0.21	1.0
Upper Bound		7.5	26.4	<0.002	0.03	0.19	37.4	<1	0.8	134.0	0.27	<0.05	3.38	0.377	0.17	0.9
TRD001585 DUP		9.4	29.3	0.004	0.06	0.33	41.5	2	1.3	148.5	0.41	0.10	3.76	0.427	0.25	1.2
TRD001605 DUP		25.5	136.0	<0.002	0.03	4.31	17.0	2	3.5	89.3	0.86	0.07	18.35	0.383	0.67	2.4
Target Range - Lower Bound		26.0	120.0	<0.002	0.03	4.22	16.5	1	3.5	86.7	0.85	0.05	15.00	0.386	0.67	2.3
Upper Bound		24.0	121.5	<0.002	0.02	3.90	15.8	<1	3.1	83.4	0.76	<0.05	15.85	0.360	0.60	2.1
TRD001625 DUP		27.5	134.5	0.004	0.04	4.63	17.7	2	3.9	92.6	0.95	0.10	17.50	0.409	0.74	2.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001525 DUP Target Range - Lower Bound Upper Bound						
TRD001526 DUP Target Range - Lower Bound Upper Bound		105 107 100 112	2.9 2.9 2.6 3.2	16.7 16.8 15.8 17.7	104 106 98 112	136.0 137.5 126.0 147.5
TRD001532 DUP Target Range - Lower Bound Upper Bound		92 96 88 100	3.6 3.7 3.3 4.0	25.8 26.2 24.6 27.4	121 127 116 132	72.3 72.2 66.3 78.2
TRD001547 DUP Target Range - Lower Bound Upper Bound						
TRD001569 DUP Target Range - Lower Bound Upper Bound		214 212 201 225	0.5 0.4 0.3 0.6	22.7 22.4 21.3 23.8	85 83 78 90	107.5 105.5 98.0 115.0
TRD001585 DUP Target Range - Lower Bound Upper Bound						
TRD001605 DUP Target Range - Lower Bound Upper Bound		117 117 110 124	3.5 3.5 3.1 3.9	9.9 8.2 8.5 9.6	52 53 48 57	89.5 90.4 82.7 97.2
TRD001625 DUP Target Range - Lower Bound Upper Bound						



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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	Au-AA23	Au-GRA21	ME-MS61												
		Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
<b>DUPLICATES</b>																
TRD001641				0.08	9.67	360	450	2.70	0.31	0.02	<0.02	112.0	4.0	86	9.50	44.3
DUP				0.07	9.71	364	450	2.77	0.31	0.02	<0.02	133.5	4.0	86	9.78	45.3
Target Range - Lower Bound				0.06	9.20	344	410	2.55	0.28	<0.01	<0.02	116.5	3.7	81	9.11	43.0
Upper Bound				0.09	10.20	380	490	2.92	0.34	0.03	0.04	129.0	4.3	91	10.15	46.6
TRD001662		<0.005														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
TRD001679				0.04	9.13	95.3	350	0.92	0.03	0.07	0.03	28.4	9.6	23	2.53	14.8
DUP				0.05	9.27	98.0	360	0.92	0.07	0.07	0.03	24.9	9.8	24	2.59	25.0
Target Range - Lower Bound				0.03	8.73	91.6	320	0.82	0.04	0.06	<0.02	25.3	9.1	21	2.38	19.0
Upper Bound				0.06	9.67	101.5	390	1.02	0.06	0.08	0.04	28.0	10.3	26	2.74	20.8
TRD001682		0.011														
DUP		0.013														
Target Range - Lower Bound		0.006														
Upper Bound		0.018														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL				0.06	7.42	27.3	360	2.63	0.50	0.04	0.07	103.5	4.7	50	7.92	20.8
DUP				0.07	7.57	27.1	370	2.60	0.50	0.04	0.08	106.0	4.8	53	8.18	21.4
Target Range - Lower Bound				0.05	7.11	25.6	330	2.43	0.47	0.03	0.05	99.5	4.4	48	7.60	20.2
Upper Bound				0.08	7.88	28.8	400	2.80	0.54	0.05	0.10	110.0	5.1	55	8.50	22.0
ORIGINAL				0.22	2.05	23.0	190	1.46	0.53	0.05	0.30	50.8	22.6	45	1.70	449
DUP				0.24	2.09	23.9	190	1.48	0.55	0.05	0.31	51.1	23.7	44	1.69	457
Target Range - Lower Bound				0.21	1.96	22.1	170	1.35	0.50	0.04	0.27	48.4	21.9	41	1.56	437
Upper Bound				0.25	2.18	24.8	210	1.59	0.58	0.06	0.34	53.5	24.4	48	1.83	469



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**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
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Sample Description	Method Analyte Units LOD	ME-MS61														
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
<b>DUPLICATES</b>																
TRD001641		6.74	28.3	0.26	2.4	0.059	2.23	69.7	32.6	0.25	177	1.50	0.13	11.9	24.7	860
DUP		6.71	29.2	0.26	2.5	0.086	2.24	86.2	32.9	0.25	181	1.60	0.13	12.5	24.8	870
Target Range - Lower Bound		6.38	27.3	0.19	2.2	0.064	2.11	73.6	30.9	0.23	165	1.42	0.11	11.5	23.3	810
Upper Bound		7.07	30.2	0.33	2.7	0.081	2.36	82.3	34.6	0.27	193	1.68	0.15	12.9	26.2	920
TRD001662																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001679		4.07	20.8	0.05	1.7	0.044	1.30	14.4	18.4	0.63	544	0.56	0.13	8.0	16.9	200
DUP		4.21	22.0	0.05	1.8	0.042	1.36	12.2	18.8	0.64	559	0.68	0.14	8.1	18.2	210
Target Range - Lower Bound		3.92	20.3	<0.05	1.6	0.036	1.25	12.1	17.5	0.59	519	0.54	0.12	7.5	16.5	180
Upper Bound		4.36	22.5	0.10	1.9	0.050	1.41	14.5	19.7	0.68	584	0.70	0.15	8.6	18.6	230
TRD001682																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		3.88	18.90	0.12	3.9	0.083	2.76	54.6	17.2	0.38	112	0.22	0.07	13.1	13.2	530
DUP		3.97	19.40	0.12	4.2	0.080	2.80	55.5	17.6	0.39	116	0.32	0.07	13.6	13.4	550
Target Range - Lower Bound		3.72	18.15	0.06	3.7	0.072	2.63	51.8	16.3	0.36	103	0.21	0.06	12.6	12.4	500
Upper Bound		4.13	20.2	0.18	4.4	0.091	2.93	58.3	18.5	0.41	125	0.33	0.08	14.1	14.2	580
ORIGINAL		7.07	5.45	0.07	1.0	0.099	0.81	44.6	7.6	0.16	377	6.33	0.07	2.0	60.1	950
DUP		7.25	5.81	0.29	1.0	0.083	0.81	45.4	7.9	0.16	380	6.50	0.07	2.0	62.3	970
Target Range - Lower Bound		6.79	5.30	0.12	0.9	0.081	0.76	42.3	7.2	0.14	355	6.04	0.06	1.8	57.9	900
Upper Bound		7.53	5.96	0.24	1.2	0.101	0.86	47.8	8.3	0.18	402	6.79	0.08	2.2	64.5	1020



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**QC CERTIFICATE OF ANALYSIS BU22106480**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
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Sample Description	Method Analyte Units LOD	ME-MS61														
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	%	ppm	ppm							
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
<b>DUPLICATES</b>																
TRD001641		22.9	138.0	<0.002	0.04	2.78	19.6	1	3.2	40.9	0.91	<0.05	18.85	0.374	0.67	3.0
DUP		23.1	143.5	<0.002	0.04	2.72	19.8	1	3.1	40.0	0.95	0.05	20.8	0.390	0.66	3.1
Target Range - Lower Bound		21.4	133.5	<0.002	0.03	2.49	18.6	<1	2.8	38.2	0.83	<0.05	18.80	0.358	0.60	2.8
Upper Bound		24.7	148.0	0.004	0.05	3.01	20.8	2	3.5	42.7	1.03	0.10	20.8	0.406	0.73	3.3
TRD001662																
DUP																
Target Range - Lower Bound																
Upper Bound																
TRD001679		11.4	45.7	<0.002	0.01	1.22	10.2	<1	1.2	24.7	0.64	<0.05	5.84	0.366	0.25	2.4
DUP		11.8	41.0	<0.002	0.01	1.27	10.2	<1	1.3	24.1	0.64	<0.05	5.14	0.385	0.28	2.5
Target Range - Lower Bound		10.5	41.1	<0.002	<0.01	1.10	9.6	<1	1.0	23.0	0.56	<0.05	5.21	0.352	0.23	2.2
Upper Bound		12.7	45.6	0.004	0.02	1.39	10.8	2	1.5	25.8	0.72	0.10	5.77	0.399	0.30	2.7
TRD001682																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		127.0	205	<0.002	0.02	4.67	13.8	<1	5.2	34.8	1.18	<0.05	19.65	0.346	1.02	2.7
DUP		133.5	206	<0.002	0.02	4.59	14.3	<1	5.2	35.6	1.29	<0.05	19.90	0.365	1.11	2.8
Target Range - Lower Bound		123.0	195.0	<0.002	<0.01	4.23	13.2	<1	4.7	33.2	1.12	<0.05	18.80	0.333	0.97	2.5
Upper Bound		137.5	216	0.004	0.03	5.03	14.9	2	5.7	37.2	1.35	0.10	20.8	0.378	1.16	3.0
ORIGINAL		22.7	38.9	<0.002	0.05	2.30	6.1	2	1.2	68.9	0.13	0.26	3.04	0.085	0.45	3.6
DUP		23.6	40.2	<0.002	0.05	2.65	6.2	2	1.2	71.2	0.13	0.26	3.08	0.085	0.44	3.6
Target Range - Lower Bound		21.5	37.5	<0.002	0.04	2.24	5.7	<1	0.9	66.3	0.07	0.20	2.90	0.076	0.39	3.3
Upper Bound		24.8	41.6	0.004	0.06	2.71	6.6	3	1.5	73.8	0.19	0.32	3.22	0.094	0.50	3.9



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**QC CERTIFICATE OF ANALYSIS BU22106480**

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 No: 825, Corporate Site No: 818.

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
<b>DUPLICATES</b>						
TRD001641		129	2.5	14.2	42	78.3
DUP		129	2.5	16.2	42	80.8
Target Range - Lower Bound		122	2.2	14.3	38	73.1
Upper Bound		136	2.8	16.1	46	86.0
TRD001662						
DUP						
Target Range - Lower Bound						
Upper Bound						
TRD001679		72	0.2	11.8	83	44.2
DUP		73	0.2	10.9	85	45.0
Target Range - Lower Bound		68	<0.1	10.7	78	40.8
Upper Bound		77	0.3	12.0	90	48.4
TRD001682						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL		77	6.9	14.8	131	137.0
DUP		78	7.4	14.9	135	141.5
Target Range - Lower Bound		73	6.5	14.0	124	128.5
Upper Bound		82	7.8	15.7	142	150.0
ORIGINAL		173	0.8	18.2	178	39.6
DUP		180	0.8	18.2	182	40.6
Target Range - Lower Bound		167	0.6	17.2	169	36.6
Upper Bound		186	1.0	19.2	191	43.6



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**QC CERTIFICATE OF ANALYSIS BU22106480**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist ME-MS61
	<b>LABORATORY ADDRESSES</b>
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 BAG-21
Applies to Method:	Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21
Applies to Method:	Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia ME-MS61
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. BAG-01 CRU-21 LEV-01 LOG-22 PUL-23 PUL-QC SPL-21 WEI-21