



Australian Laboratory Services Pty. Ltd.  
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 No: 825, Corporate Site No: 818.

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

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 Plus Appendix Pages  
 Finalized Date: 2-JUN-2022  
 This copy reported on 7-JUN-2022  
 Account: TINONEAUS

**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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**CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000001		0.34	98.7	0.028	0.05	6.10	49.5	280	0.90	0.59	0.73	0.06	42.2	14.0	90	3.07
TRD000002		1.16		0.036	0.02	4.60	8.8	260	0.76	0.20	0.11	0.02	57.9	3.6	49	2.18
TRD000003		0.99		0.048	0.02	4.54	7.5	310	0.71	0.10	0.02	<0.02	58.1	1.6	42	2.12
TRD000004		1.28		0.034	0.02	4.20	16.4	180	0.80	0.18	0.03	<0.02	60.1	1.3	58	2.08
TRD000005		1.88		0.031	0.04	8.05	14.8	770	2.09	0.29	0.02	<0.02	41.3	3.0	73	3.55
TRD000006		1.69		0.043	0.04	7.32	22.1	670	1.94	0.27	0.02	<0.02	36.9	2.9	75	3.26
TRD000007		1.14		0.030	0.02	5.00	12.4	380	1.02	0.21	0.02	<0.02	52.1	1.7	56	2.37
TRD000008		1.33		0.041	0.07	7.93	21.2	730	1.89	0.40	0.01	0.02	25.0	2.3	81	3.55
TRD000009		2.04		0.014	0.05	8.35	13.0	740	2.29	0.46	0.01	0.02	24.1	3.5	74	3.54
TRD000010		1.27		0.073	0.10	8.38	14.8	790	2.78	0.45	0.01	0.02	21.4	3.5	101	3.15
TRD000011		2.13		0.041	0.09	7.87	13.6	730	2.45	0.41	0.01	<0.02	23.7	2.7	86	3.26
TRD000012		1.10		0.028	0.09	5.87	6.4	480	1.72	0.21	0.01	0.02	50.7	1.6	63	2.59
TRD000013		1.55		0.029	0.08	7.34	9.8	690	2.62	0.35	0.01	<0.02	31.2	2.8	81	3.55
TRD000014		1.59		0.069	0.12	5.35	12.0	460	1.93	0.35	0.01	<0.02	65.1	1.7	73	2.66
TRD000015		2.27		0.043	0.07	5.71	9.5	480	1.58	0.25	0.03	<0.02	48.6	2.2	64	2.79
TRD000016		2.34		0.033	0.02	4.58	6.8	300	1.04	0.19	0.02	<0.02	49.1	1.4	41	2.22
TRD000017		1.05		0.048	0.02	4.03	6.4	220	0.94	0.21	0.02	<0.02	49.6	1.0	40	1.81
TRD000018		0.78		0.033	0.02	4.09	5.4	270	0.86	0.15	0.01	<0.02	42.5	1.0	41	1.87
TRD000019		1.16		0.035	0.02	3.91	6.0	220	0.94	0.13	0.01	<0.02	49.4	1.0	39	1.76
TRD000020		1.17		0.016	0.02	4.01	6.4	250	1.02	0.11	0.02	0.02	47.8	1.0	37	1.95
TRD000021		1.42		0.064	0.15	7.21	8.2	600	2.25	0.35	0.01	<0.02	41.2	2.0	85	3.36
TRD000022		1.24		0.036	0.08	5.14	8.0	390	1.76	0.53	0.01	<0.02	49.1	1.5	54	2.55
TRD000023		0.89		0.016	0.04	4.50	5.8	310	1.22	0.18	0.01	<0.02	44.4	1.3	47	2.08
TRD000024		1.47		0.018	0.05	4.36	5.4	320	1.11	0.15	0.01	<0.02	39.9	1.1	42	2.11
TRD000025		0.93		0.011	0.02	4.00	4.6	280	0.91	0.12	0.01	<0.02	40.3	1.0	40	2.02
TRD000026		1.36		0.012	0.03	4.06	4.4	280	0.97	0.10	0.01	<0.02	47.6	1.0	40	2.09
TRD000027		1.49		<0.005	0.06	8.39	1.1	210	0.77	0.04	7.03	0.10	26.8	41.6	4	1.30
TRD000028		1.65		0.011	0.04	4.39	5.7	330	1.17	0.11	0.02	<0.02	51.3	1.2	47	2.39
TRD000029		1.29		0.017	0.06	5.16	7.1	470	1.74	0.16	0.01	<0.02	58.2	1.5	60	2.78
TRD000030		1.45		0.025	0.06	4.81	10.2	360	1.62	0.16	0.02	<0.02	65.9	1.5	59	2.82
TRD000031		1.32		0.033	0.03	4.35	6.5	320	1.32	0.12	0.01	<0.02	67.7	1.4	53	2.57
TRD000032		1.29		0.011	0.03	4.54	4.9	320	1.21	0.19	0.01	<0.02	65.2	1.3	46	2.75
TRD000033		1.73		0.019	0.04	5.83	6.9	480	1.97	0.36	0.01	0.02	97.3	1.7	62	3.72
TRD000034		1.52		0.009	0.05	6.58	6.7	590	2.57	0.26	0.01	<0.02	120.5	2.0	59	6.13
TRD000035		1.77		0.014	0.06	6.01	16.8	450	2.49	0.29	0.01	0.03	119.5	2.5	57	7.18
TRD000036		1.15		<0.005	0.05	7.87	25.8	680	2.27	0.50	0.01	0.04	81.0	2.1	62	5.70
TRD000037		0.97		<0.005	0.06	8.27	17.6	750	3.23	0.58	0.01	0.04	156.5	13.1	68	7.78
TRD000038		1.91		0.008	0.07	5.37	9.1	460	2.36	0.23	0.01	0.04	139.5	16.0	50	6.64
TRD000039		1.50		<0.005	0.05	7.11	17.0	630	2.71	0.33	0.01	0.08	106.0	13.4	63	7.66
TRD000040		3.24	98.0	<0.005	0.07	7.73	11.8	630	2.51	0.36	0.01	0.05	98.3	12.6	65	8.09



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Project: Panama Project 1-3-22

**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000001		28.0	5.43	15.50	0.31	3.4	0.064	1.00	20.7	13.8	0.62	303	2.32	0.25	13.5	45.5
TRD000002		10.9	2.53	11.50	0.46	5.7	0.039	0.83	28.7	6.8	0.19	156	1.76	0.07	9.9	15.6
TRD000003		9.6	1.67	10.65	0.42	5.5	0.019	0.98	29.5	5.3	0.14	142	0.50	0.04	9.9	7.3
TRD000004		17.7	2.44	10.20	0.41	4.1	0.023	0.74	30.8	5.2	0.10	112	0.65	0.04	8.6	7.7
TRD000005		19.2	2.47	20.3	0.41	3.8	0.057	2.58	21.5	11.6	0.25	86	0.37	0.10	14.6	12.6
TRD000006		20.9	3.08	18.05	0.45	3.2	0.059	2.33	18.4	10.0	0.22	77	0.42	0.09	13.3	11.6
TRD000007		14.2	2.47	12.10	0.45	3.2	0.038	1.22	27.6	6.7	0.15	105	0.48	0.05	9.9	7.5
TRD000008		27.2	3.03	19.90	0.47	3.4	0.061	2.48	12.8	10.8	0.24	76	0.35	0.09	15.0	12.3
TRD000009		38.4	3.44	22.6	0.68	3.5	0.071	2.60	10.6	11.0	0.23	61	0.29	0.11	15.2	15.6
TRD000010		22.5	5.20	23.0	0.63	3.4	0.081	2.81	10.9	9.8	0.21	222	0.20	0.11	15.4	14.0
TRD000011		25.6	4.46	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
TRD000012		21.0	3.39	15.35	0.08	3.3	0.048	1.72	25.6	7.9	0.17	154	0.29	0.05	12.4	10.4
TRD000013		20.7	3.75	20.9	0.70	3.6	0.059	2.56	14.1	10.5	0.21	80	0.25	0.10	14.9	15.4
TRD000014		14.9	2.97	14.10	0.66	3.0	0.061	1.68	32.1	7.2	0.17	91	0.34	0.06	10.9	9.2
TRD000015		15.2	2.88	14.40	0.79	3.0	0.049	1.70	23.7	7.5	0.19	109	0.48	0.07	11.1	10.3
TRD000016		10.0	1.96	11.20	0.57	2.5	0.020	1.04	21.7	4.9	0.14	184	0.47	0.04	9.4	8.5
TRD000017		10.2	2.01	10.10	0.63	2.6	0.028	0.75	22.3	4.1	0.10	206	0.40	0.03	9.3	6.5
TRD000018		8.7	1.84	9.82	0.53	2.4	0.027	0.90	18.8	4.2	0.12	197	0.41	0.04	8.5	6.4
TRD000019		8.8	1.89	9.37	0.54	2.5	0.030	0.85	19.4	4.0	0.11	186	0.44	0.04	8.8	6.8
TRD000020		8.4	1.87	9.44	0.32	3.3	0.022	0.91	20.7	4.7	0.13	165	0.52	0.04	9.0	7.4
TRD000021		17.2	3.47	17.80	0.27	3.8	0.054	2.32	19.4	9.8	0.24	112	0.40	0.09	13.9	9.9
TRD000022		13.2	2.44	13.45	0.15	3.2	0.047	1.49	21.6	7.5	0.17	120	0.56	0.06	10.4	9.6
TRD000023		10.4	2.00	11.40	0.10	3.3	0.032	1.12	21.3	5.5	0.14	168	0.50	0.05	10.1	8.5
TRD000024		8.8	1.88	10.70	0.08	3.3	0.033	1.16	18.5	5.4	0.15	148	0.55	0.05	9.7	7.3
TRD000025		7.8	1.70	9.67	0.15	3.6	0.036	1.01	19.0	4.8	0.13	150	0.57	0.04	8.9	6.6
TRD000026		7.9	1.63	9.79	0.15	3.8	0.022	1.01	22.7	4.7	0.13	153	0.55	0.04	9.2	6.5
TRD000027		149.0	7.26	17.55	0.16	2.8	0.060	0.76	12.4	10.8	2.52	1245	0.44	1.51	5.0	42.7
TRD000028		9.5	1.90	11.25	0.19	3.8	0.034	1.20	24.6	5.7	0.15	138	0.55	0.05	9.9	8.0
TRD000029		11.4	2.24	12.60	0.20	3.4	0.041	1.64	30.2	7.3	0.19	112	0.50	0.06	10.9	7.3
TRD000030		12.4	2.87	12.20	0.20	3.1	0.035	1.44	34.0	7.2	0.17	91	0.53	0.05	9.8	7.7
TRD000031		10.6	2.45	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
TRD000032		11.0	2.02	10.85	0.16	3.5	0.029	1.22	31.0	6.1	0.16	107	0.63	0.05	9.8	8.1
TRD000033		21.9	3.40	14.30	0.22	3.4	0.041	1.72	50.0	8.4	0.20	145	0.55	0.06	11.4	11.4
TRD000034		27.8	3.61	16.95	0.30	3.2	0.054	2.12	56.8	12.0	0.24	178	0.56	0.08	12.0	12.8
TRD000035		35.0	4.71	13.95	0.28	2.9	0.045	1.66	46.2	12.1	0.22	258	0.76	0.06	11.7	17.8
TRD000036		29.5	1.55	21.8	0.29	3.9	0.081	2.89	36.3	15.2	0.30	90	1.95	0.10	15.7	7.5
TRD000037		44.3	2.90	22.2	0.22	3.8	0.072	3.17	41.3	19.4	0.34	290	1.99	0.11	16.1	18.8
TRD000038		26.9	2.94	14.00	0.33	3.1	0.052	1.71	46.9	15.8	0.24	648	0.88	0.07	11.4	28.5
TRD000039		33.9	3.51	19.10	0.38	3.3	0.072	2.48	77.6	28.4	0.65	829	0.60	0.10	14.1	46.2
TRD000040		30.5	3.47	20.5	0.39	3.3	0.081	2.88	59.3	31.9	1.08	688	0.41	0.11	14.1	34.8



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Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000001		340	14.2	64.2	<0.002	0.05	1.26	8.1	1	3.0	87.2	0.90	0.07	20.8	0.436	0.27
TRD000002		160	13.9	48.1	<0.002	0.03	0.65	6.3	1	2.1	42.2	0.78	<0.05	35.8	0.306	0.24
TRD000003		140	12.0	53.6	<0.002	0.02	0.57	6.2	1	2.1	34.7	0.77	<0.05	38.9	0.306	0.23
TRD000004		160	13.6	52.6	<0.002	0.03	0.73	5.7	1	1.7	38.3	0.62	0.09	33.1	0.259	0.21
TRD000005		210	14.4	110.0	<0.002	0.02	0.76	13.6	1	3.9	35.7	1.10	0.05	26.3	0.410	0.41
TRD000006		270	15.7	98.3	<0.002	0.03	0.86	12.6	1	3.7	38.0	0.99	0.05	22.5	0.392	0.34
TRD000007		220	12.4	63.7	<0.002	0.03	0.88	8.1	1	2.5	39.8	0.75	0.05	18.65	0.300	0.23
TRD000008		200	16.5	108.5	<0.002	0.03	1.32	14.5	<1	5.4	39.4	1.22	0.07	18.85	0.408	0.37
TRD000009		150	18.0	107.0	<0.002	0.03	1.26	15.8	1	4.6	36.8	1.24	0.05	21.6	0.423	0.41
TRD000010		450	32.2	105.0	<0.002	0.03	1.32	21.3	<1	4.3	41.3	1.19	0.05	20.4	0.448	0.75
TRD000011		390	23.1	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
TRD000012		480	17.5	78.7	<0.002	0.02	0.87	15.3	<1	2.9	47.9	0.97	<0.05	16.50	0.339	0.33
TRD000013		410	16.3	103.5	<0.002	0.03	0.88	18.4	<1	3.7	36.0	1.14	0.05	15.90	0.425	0.43
TRD000014		490	15.8	77.3	<0.002	0.02	0.76	15.5	<1	2.7	28.9	0.85	<0.05	15.45	0.325	0.31
TRD000015		380	13.3	78.3	<0.002	0.02	0.74	12.8	<1	2.7	29.5	0.84	0.05	15.85	0.338	0.31
TRD000016		340	10.6	55.7	<0.002	0.02	0.56	8.6	<1	2.2	33.2	0.72	<0.05	12.05	0.286	0.23
TRD000017		340	9.6	47.2	<0.002	0.02	0.55	7.1	<1	2.2	38.9	0.67	0.06	10.95	0.281	0.18
TRD000018		290	8.4	48.5	<0.002	0.02	0.58	7.0	<1	1.8	27.4	0.63	<0.05	10.60	0.270	0.19
TRD000019		320	8.4	51.0	<0.002	0.02	0.57	6.6	<1	2.0	32.9	0.60	<0.05	10.45	0.271	0.20
TRD000020		350	8.9	52.3	<0.002	0.02	0.58	7.6	<1	2.0	29.6	0.74	<0.05	11.05	0.277	0.22
TRD000021		550	12.5	104.5	<0.002	0.03	0.81	17.2	1	3.4	30.6	1.06	<0.05	16.75	0.407	0.41
TRD000022		460	15.5	70.5	<0.002	0.02	0.68	12.6	1	2.3	27.3	0.89	0.05	14.20	0.317	0.32
TRD000023		350	10.4	57.7	<0.002	0.02	0.57	9.5	1	2.3	37.5	0.82	<0.05	13.05	0.301	0.24
TRD000024		350	8.2	57.7	<0.002	0.02	0.55	8.9	<1	2.1	27.0	0.79	<0.05	12.45	0.296	0.27
TRD000025		320	7.4	51.9	<0.002	0.02	0.47	7.8	<1	1.9	27.7	0.75	<0.05	11.80	0.281	0.23
TRD000026		350	9.3	53.7	<0.002	0.02	0.47	7.9	<1	2.0	34.1	0.77	<0.05	12.05	0.288	0.25
TRD000027		410	6.4	26.5	<0.002	0.05	0.15	41.3	1	1.0	148.0	0.34	<0.05	3.54	0.406	0.18
TRD000028		410	8.8	63.1	<0.002	0.02	0.54	9.5	1	2.3	28.7	0.82	<0.05	13.35	0.300	0.26
TRD000029		520	9.0	80.1	<0.002	0.02	0.80	12.0	1	2.5	25.2	0.84	<0.05	13.70	0.321	0.34
TRD000030		580	11.6	74.6	<0.002	0.02	0.85	12.6	<1	2.2	26.0	0.80	<0.05	13.10	0.292	0.34
TRD000031		510	7.8	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
TRD000032		440	7.8	67.4	<0.002	0.02	0.65	10.8	1	2.3	23.1	0.80	<0.05	12.45	0.290	0.31
TRD000033		780	10.9	90.0	<0.002	0.02	0.78	16.2	1	2.7	28.8	0.95	<0.05	14.80	0.336	0.40
TRD000034		840	9.4	107.0	<0.002	0.03	0.69	17.6	1	3.1	35.8	1.01	<0.05	15.55	0.356	0.48
TRD000035		930	11.6	104.5	<0.002	0.03	0.80	15.6	1	2.7	46.8	0.89	<0.05	13.80	0.336	0.56
TRD000036		200	13.6	134.5	<0.002	0.02	0.99	15.0	1	4.0	33.4	1.30	0.06	18.75	0.441	0.62
TRD000037		480	13.0	147.5	<0.002	0.02	1.18	14.8	2	4.2	42.7	1.33	0.05	17.65	0.466	0.93
TRD000038		460	10.1	108.0	<0.002	0.02	0.66	10.6	1	2.6	37.2	0.88	<0.05	13.65	0.320	1.13
TRD000039		260	14.2	139.0	<0.002	0.02	0.95	13.0	<1	3.9	46.8	1.17	0.05	16.95	0.394	0.93
TRD000040		200	17.1	151.0	<0.002	0.03	1.24	14.0	1	3.7	41.4	1.13	<0.05	18.25	0.405	0.88



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**CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000001	1.6	77	14.9	9.4	52	141.0	
TRD000002	1.9	48	8.1	8.5	20	202	
TRD000003	1.9	43	3.1	8.2	14	201	
TRD000004	1.6	44	3.3	7.5	10	157.5	
TRD000005	2.9	85	3.3	11.9	38	141.5	
TRD000006	3.0	82	3.3	10.6	46	123.0	
TRD000007	2.4	53	3.6	9.1	20	123.0	
TRD000008	3.6	85	3.9	8.2	30	135.5	
TRD000009	3.3	90	3.5	9.6	58	130.0	
TRD000010	3.9	99	2.9	10.9	57	123.5	
TRD000011	3.6	92	3.3	9.1	41	127.5	
TRD000012	4.1	65	2.5	10.1	28	108.0	
TRD000013	4.1	85	3.4	8.5	40	129.0	
TRD000014	3.2	61	3.2	11.3	22	116.0	
TRD000015	3.0	63	3.3	9.0	29	111.0	
TRD000016	2.4	47	3.4	7.3	22	95.1	
TRD000017	2.5	43	3.5	6.8	13	98.6	
TRD000018	2.4	42	2.4	6.8	17	95.1	
TRD000019	2.5	40	2.5	6.7	15	100.5	
TRD000020	2.8	41	3.6	8.8	17	114.5	
TRD000021	3.8	80	3.9	9.9	56	128.5	
TRD000022	3.0	56	3.7	9.3	33	106.5	
TRD000023	2.5	46	2.6	8.0	24	114.5	
TRD000024	2.4	45	2.6	7.3	27	111.5	
TRD000025	2.2	40	2.3	7.4	22	116.5	
TRD000026	2.3	39	2.3	8.2	21	122.0	
TRD000027	0.9	231	0.4	22.3	82	105.5	
TRD000028	2.5	45	2.6	10.1	24	125.0	
TRD000029	2.7	53	2.5	12.0	28	120.0	
TRD000030	2.8	49	2.5	10.9	26	103.0	
TRD000031	2.9	44	2.8	10.6	27	105.5	
TRD000032	3.0	43	2.9	11.6	21	120.0	
TRD000033	4.0	59	2.9	17.1	40	110.0	
TRD000034	4.1	72	2.6	28.2	52	107.5	
TRD000035	3.8	66	2.2	22.2	52	107.5	
TRD000036	4.2	107	3.0	20.1	38	134.5	
TRD000037	4.8	162	3.7	26.6	48	135.0	
TRD000038	3.0	62	2.5	29.0	52	104.5	
TRD000039	3.1	80	2.8	76.2	125	115.5	
TRD000040	2.9	86	2.9	44.3	123	113.0	



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Project: Panama Project 1-3-22

**CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000041		2.74		<0.005	0.06	7.56	13.1	610	2.39	0.41	0.01	0.05	96.4	13.6	65	7.19
TRD000042		2.00		<0.005	0.11	8.05	15.6	740	2.89	0.46	0.01	0.08	162.0	32.3	63	6.33
TRD000043		1.89		<0.005	0.08	7.67	19.8	500	3.37	0.46	0.02	0.04	96.4	14.0	67	5.91
TRD000044		1.79		<0.005	0.05	8.11	23.5	680	3.10	0.46	0.01	0.09	109.0	14.0	68	6.12
TRD000045		1.37		<0.005	0.08	8.06	9.6	650	2.79	0.45	0.01	0.24	92.0	14.0	69	5.80
TRD000046		2.16		<0.005	0.09	7.79	12.8	610	2.62	0.48	0.01	0.17	116.5	19.8	65	8.03
TRD000047		1.86		<0.005	0.10	7.94	18.9	570	2.54	0.48	0.01	0.29	286	19.6	65	7.52
TRD000048		1.42		<0.005	0.05	8.09	25.1	570	2.67	0.56	0.01	0.40	107.5	13.1	66	6.18
TRD000049		2.12		0.078	0.08	7.70	31.9	520	2.73	0.50	0.01	0.13	111.5	15.9	66	6.05
TRD000050		1.82		0.077	0.13	7.03	14.4	450	2.40	0.58	0.01	0.02	93.8	9.1	61	5.24
TRD000051		1.84		0.005	0.05	6.69	15.8	440	1.92	0.26	0.01	0.07	207	14.8	58	4.72
TRD000052		2.04		0.014	0.10	7.93	15.2	580	2.61	0.57	0.01	0.42	176.5	20.3	68	10.05
TRD000053		1.23		<0.005	0.11	8.28	12.0	630	2.79	0.62	0.01	0.29	124.5	20.4	73	10.50
TRD000054		1.05		0.005	0.07	8.55	1.2	210	0.83	0.04	7.12	0.11	27.4	41.9	4	1.28
TRD000055		1.60		<0.005	0.05	8.08	15.1	570	2.70	0.35	0.02	0.12	102.0	16.0	68	10.05
TRD000056		0.96		<0.005	0.14	7.91	11.3	540	2.50	0.64	0.01	0.15	95.8	24.9	68	12.20
TRD000057		1.14		<0.005	0.12	8.16	20.0	540	2.78	0.68	0.05	0.07	92.6	15.2	65	9.66
TRD000058		1.13		<0.005	0.11	8.50	22.2	540	3.06	0.51	0.05	0.05	110.0	14.7	62	10.40
TRD000059		2.18		<0.005	0.08	7.96	18.6	540	2.52	0.53	0.03	0.15	114.5	18.8	66	8.70
TRD000060		2.05		<0.005	0.05	5.54	12.1	360	2.44	0.35	0.04	0.13	91.7	12.6	51	8.02
TRD000061		2.53		0.021	0.04	4.21	7.3	270	2.55	0.29	0.02	0.09	72.1	6.6	44	7.39
TRD000062		0.96		<0.005	0.03	7.74	40.9	510	3.05	0.28	0.04	0.35	97.3	11.8	66	9.61
TRD000063		0.74		<0.005	0.03	6.73	37.2	440	3.03	0.30	0.05	0.11	83.9	11.9	65	8.41
TRD000064		1.18		0.007	0.06	7.54	34.5	490	2.77	0.38	0.08	0.20	98.9	14.6	66	9.39
TRD000065		2.02		<0.005	0.07	7.88	29.3	500	2.89	0.59	0.12	0.10	90.5	19.0	64	10.35
TRD000066		3.00		<0.005	0.05	8.02	17.1	500	2.90	0.37	0.11	0.07	98.5	13.1	69	9.90
TRD000067		3.26		<0.005	0.04	7.93	30.4	490	3.05	0.36	0.11	0.06	104.0	13.8	69	10.70
TRD000068		1.98		<0.005	0.06	7.92	24.7	530	2.99	0.55	0.10	0.05	100.0	18.2	72	11.35
TRD000069		3.18		<0.005	0.14	7.76	67.4	510	2.47	0.45	0.12	0.37	91.3	20.5	65	14.30
TRD000070		3.23		<0.005	0.10	7.81	27.5	540	2.38	0.48	0.11	0.62	74.8	20.6	67	10.25
TRD000071		4.56		<0.005	0.05	4.36	14.2	280	1.35	0.17	0.12	0.08	66.2	7.9	44	6.37
TRD000072		2.57		<0.005	0.06	6.53	33.8	410	2.43	0.49	0.09	0.06	78.6	16.0	67	8.78
TRD000073		3.21		0.010	0.03	7.87	26.9	510	2.55	0.39	0.10	0.03	68.6	16.6	70	8.99
TRD000074		3.38		<0.005	0.03	7.74	19.4	490	2.45	0.37	0.11	0.09	60.1	13.2	71	10.00
TRD000075		3.30		<0.005	0.09	6.86	34.0	440	2.12	0.41	0.12	0.28	74.1	15.8	62	9.25
TRD000076		1.98		<0.005	0.10	7.95	47.3	510	2.52	0.50	0.14	0.34	84.6	17.4	71	10.90
TRD000077		2.50		0.005	0.07	7.94	28.0	510	2.66	0.37	0.15	0.08	85.4	13.0	69	10.35
TRD000078		1.35		<0.005	0.10	7.45	40.9	490	2.67	0.54	0.16	0.17	90.3	21.5	65	11.25
TRD000079		1.58		<0.005	0.06	7.98	25.3	550	2.86	0.44	0.12	0.06	101.0	16.8	71	9.92
TRD000080		0.98	99.5	<0.005	0.03	7.80	14.4	530	2.82	0.31	0.12	0.02	98.9	13.4	68	9.55



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**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000041		35.4	3.22	20.5	0.36	3.4	0.077	2.75	55.8	29.7	0.97	613	0.43	0.10	14.5	31.6
TRD000042		35.0	3.32	22.0	0.35	3.6	0.060	2.37	54.1	35.8	0.61	2100	0.90	0.09	14.8	49.0
TRD000043		46.1	5.58	20.7	0.38	3.5	0.054	1.65	47.8	23.2	0.36	1095	1.67	0.06	14.7	40.3
TRD000044		41.6	3.66	21.8	0.44	3.5	0.079	2.71	72.5	28.0	0.80	673	0.56	0.10	15.3	33.3
TRD000045		36.5	2.87	22.6	0.40	3.4	0.066	2.92	53.9	33.1	1.06	529	0.59	0.11	15.4	31.9
TRD000046		37.4	3.44	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
TRD000047		35.2	3.19	23.1	0.67	3.7	0.086	2.92	207	35.0	1.21	536	0.68	0.12	15.5	38.5
TRD000048		47.7	2.82	24.1	0.57	3.9	0.079	2.86	74.9	21.9	0.50	212	0.74	0.11	15.4	28.1
TRD000049		41.6	4.72	21.6	0.44	3.2	0.066	2.55	71.2	19.0	0.49	336	0.63	0.10	14.2	20.8
TRD000050		28.5	3.61	17.50	0.33	2.8	0.050	2.23	41.1	11.9	0.26	244	0.60	0.08	12.9	11.2
TRD000051		33.3	3.07	16.50	0.43	3.0	0.056	1.99	58.0	14.4	0.30	492	1.50	0.08	12.8	17.5
TRD000052		37.3	3.30	23.5	0.64	3.9	0.074	3.00	120.0	34.0	1.16	645	2.30	0.13	15.6	43.3
TRD000053		39.3	3.47	24.5	0.63	3.9	0.083	3.42	96.1	40.9	1.42	770	1.62	0.16	16.0	42.3
TRD000054		149.0	7.50	18.75	0.48	3.0	0.072	0.79	12.8	11.4	2.62	1270	0.42	1.54	5.1	43.2
TRD000055		34.9	3.92	22.7	0.60	3.6	0.076	3.16	57.4	41.5	1.55	971	0.65	0.15	14.8	36.1
TRD000056		37.7	3.82	19.35	0.21	3.6	0.071	3.00	50.3	38.2	1.52	1140	4.20	0.18	15.9	56.5
TRD000057		32.5	3.88	20.3	0.22	3.2	0.061	3.16	47.6	41.8	1.59	1125	0.86	0.22	15.1	40.2
TRD000058		30.5	3.94	22.5	0.39	3.7	0.067	3.16	56.8	44.8	1.64	1185	0.51	0.24	16.2	38.2
TRD000059		37.8	3.47	21.0	0.20	3.5	0.084	2.99	59.0	33.9	1.27	724	1.38	0.17	16.3	40.7
TRD000060		27.9	2.97	15.20	0.27	3.5	0.036	1.83	46.7	28.6	0.79	645	1.36	0.19	12.1	32.4
TRD000061		20.0	2.93	10.85	0.27	2.8	0.030	1.24	36.6	22.9	0.54	645	1.65	0.26	9.2	23.5
TRD000062		31.0	3.84	21.9	0.41	3.5	0.054	2.85	47.0	40.1	1.31	742	0.68	0.21	15.0	35.2
TRD000063		27.0	3.74	18.95	0.39	3.3	0.053	2.52	40.5	37.6	1.19	743	0.91	0.21	13.1	36.4
TRD000064		34.7	3.60	20.9	0.34	3.8	0.060	2.82	50.2	40.2	1.28	747	1.90	0.28	14.8	37.8
TRD000065		44.2	3.76	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
TRD000066		34.2	4.27	22.1	0.36	3.5	0.071	2.98	48.3	46.1	1.61	995	0.59	0.40	15.1	33.7
TRD000067		31.3	4.23	22.6	0.41	3.7	0.076	2.90	51.7	48.0	1.54	985	0.78	0.36	16.0	35.5
TRD000068		41.7	4.05	22.2	0.32	3.4	0.065	3.07	48.8	46.0	1.71	1045	4.55	0.30	15.3	55.3
TRD000069		35.8	3.42	21.8	0.36	3.8	0.063	2.96	46.1	42.6	1.77	1050	4.36	0.35	13.8	60.9
TRD000070		46.4	3.18	21.6	0.29	4.0	0.067	3.25	35.5	37.5	1.49	638	3.00	0.31	14.9	63.2
TRD000071		19.6	2.22	11.15	0.27	2.9	0.037	1.42	32.4	19.8	0.72	482	2.78	0.58	9.6	27.5
TRD000072		42.2	3.73	17.15	0.27	3.1	0.058	2.33	39.0	32.7	1.09	747	2.87	0.41	12.9	41.3
TRD000073		35.2	4.50	20.7	0.30	3.2	0.077	2.95	31.5	42.7	1.53	984	1.62	0.34	15.1	49.2
TRD000074		28.3	4.74	21.3	0.36	3.4	0.062	2.80	27.7	44.5	1.55	1145	1.74	0.42	14.6	39.3
TRD000075		34.2	3.71	17.70	0.51	2.8	0.060	2.50	35.9	35.1	1.31	1190	1.74	0.43	13.2	37.0
TRD000076		41.1	4.01	20.7	0.37	3.4	0.079	2.91	40.9	42.1	1.49	1260	2.60	0.50	14.8	42.5
TRD000077		49.7	4.33	21.3	0.34	3.5	0.077	2.87	41.4	46.9	1.51	1235	1.32	0.55	16.0	35.2
TRD000078		39.3	3.51	20.6	0.53	3.5	0.068	2.69	42.9	43.5	1.32	1370	2.75	0.56	14.7	44.0
TRD000079		37.8	4.22	21.9	0.39	3.6	0.083	2.98	50.0	48.3	1.51	1095	1.56	0.53	15.3	41.6
TRD000080		37.8	4.44	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



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**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000041		240	18.4	138.0	<0.002	0.09	1.31	14.0	1	3.8	40.7	1.18	<0.05	17.05	0.402	0.81
TRD000042		190	29.4	122.0	<0.002	0.12	1.86	13.8	1	4.5	58.2	1.43	<0.05	18.75	0.400	1.32
TRD000043		220	23.1	93.4	<0.002	0.13	1.30	13.3	2	3.5	73.6	1.25	0.05	18.55	0.395	0.67
TRD000044		180	16.8	133.0	<0.002	0.10	1.65	14.4	1	3.9	49.8	1.26	0.06	18.70	0.428	0.70
TRD000045		150	21.9	127.0	0.002	0.17	1.96	14.5	1	4.1	45.0	1.26	0.05	17.10	0.426	0.74
TRD000046		140	25.1	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
TRD000047		130	22.5	142.5	0.003	0.29	1.94	14.6	1	4.0	35.5	1.29	0.05	17.95	0.425	0.94
TRD000048		120	18.4	127.0	0.002	0.18	1.39	16.0	1	3.9	30.7	1.37	0.06	17.90	0.432	0.79
TRD000049		340	18.0	132.0	<0.002	0.13	1.37	16.3	1	3.7	41.5	1.19	0.08	18.75	0.398	0.68
TRD000050		480	9.8	117.5	<0.002	0.04	1.06	14.0	1	3.3	52.2	0.99	0.12	14.20	0.361	0.54
TRD000051		190	14.4	109.0	<0.002	0.08	0.96	11.2	1	3.2	47.9	0.98	<0.05	15.30	0.372	0.69
TRD000052		250	21.1	167.5	0.002	0.40	1.95	15.4	2	3.9	46.7	1.32	0.06	20.7	0.427	1.13
TRD000053		230	23.9	166.5	0.002	0.48	2.43	15.7	2	4.1	51.0	1.34	0.07	18.20	0.451	1.34
TRD000054		410	6.8	22.1	<0.002	0.05	0.20	42.0	1	1.0	151.5	0.36	<0.05	3.56	0.411	0.22
TRD000055		150	15.4	167.0	<0.002	0.35	1.97	14.7	1	3.8	46.3	1.23	0.05	17.60	0.412	1.15
TRD000056		170	36.4	179.5	0.005	0.97	4.28	13.0	1	3.7	41.6	1.19	<0.05	17.45	0.427	1.44
TRD000057		280	31.2	175.5	0.002	0.36	2.41	13.4	1	3.8	43.5	1.20	0.08	17.30	0.426	1.08
TRD000058		320	23.4	188.5	<0.002	0.13	1.82	14.5	<1	4.6	46.3	1.46	0.06	19.75	0.416	1.06
TRD000059		260	16.6	178.5	0.002	0.36	1.68	13.8	1	4.1	47.6	1.25	0.05	18.55	0.412	0.96
TRD000060		500	12.8	118.5	<0.002	0.17	0.94	9.9	1	2.6	62.6	1.02	<0.05	14.45	0.338	0.78
TRD000061		630	9.5	87.5	<0.002	0.05	0.67	6.9	<1	2.1	56.9	0.79	<0.05	11.05	0.274	0.51
TRD000062		400	12.6	167.0	<0.002	0.08	0.97	14.4	1	4.0	39.5	1.25	<0.05	18.20	0.411	0.97
TRD000063		470	10.6	148.0	<0.002	0.10	1.00	12.4	<1	3.4	41.3	1.12	0.05	15.95	0.372	0.87
TRD000064		460	20.9	168.5	0.002	0.37	1.84	13.7	1	3.7	34.8	1.26	0.05	19.05	0.413	1.04
TRD000065		530	29.3	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
TRD000066		500	21.5	171.0	<0.002	0.14	2.50	14.7	<1	3.8	31.1	1.25	0.05	19.05	0.421	1.04
TRD000067		510	22.7	177.0	0.002	0.18	2.35	15.2	1	4.0	33.1	1.36	0.05	19.70	0.420	1.02
TRD000068		460	23.0	186.0	<0.002	0.33	2.62	14.4	1	4.1	24.9	1.23	0.05	17.90	0.407	1.10
TRD000069		560	28.8	196.5	0.007	0.87	2.68	14.0	2	3.8	30.4	1.13	<0.05	19.20	0.398	1.35
TRD000070		540	16.4	173.5	0.003	0.78	1.54	13.8	2	4.1	28.7	1.23	0.05	17.30	0.421	1.19
TRD000071		740	10.4	97.3	<0.002	0.13	0.74	7.1	1	2.5	36.8	0.81	<0.05	11.40	0.273	0.53
TRD000072		750	15.7	153.5	<0.002	0.11	1.24	11.0	1	3.3	42.2	1.00	0.07	14.70	0.356	0.78
TRD000073		500	11.4	171.0	<0.002	0.09	1.12	13.2	1	3.8	28.7	1.17	0.05	16.75	0.415	0.92
TRD000074		550	13.4	165.5	<0.002	0.13	1.25	14.0	1	3.8	30.3	1.18	0.07	17.55	0.409	0.95
TRD000075		470	22.5	155.5	<0.002	0.19	1.81	11.4	1	3.5	28.5	1.03	<0.05	14.65	0.374	0.81
TRD000076		570	27.9	175.5	0.002	0.30	2.10	13.4	1	3.7	31.8	1.15	<0.05	17.50	0.427	0.94
TRD000077		530	19.2	183.0	<0.002	0.16	2.33	14.0	1	4.0	38.1	1.25	0.05	18.55	0.423	0.96
TRD000078		530	37.1	172.0	<0.002	0.13	2.03	13.1	1	3.7	35.7	1.19	0.05	17.85	0.398	0.95
TRD000079		530	23.6	174.0	<0.002	0.14	2.63	14.1	1	4.0	30.4	1.23	0.05	18.05	0.430	1.02
TRD000080		500	16.0	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



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**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000041		3.2	89	2.8	36.5	115	117.0
TRD000042		3.9	93	2.4	42.4	147	119.5
TRD000043		3.6	94	2.0	45.1	162	119.5
TRD000044		3.4	100	2.8	52.4	134	122.5
TRD000045		3.1	95	3.5	39.4	124	115.0
TRD000046		3.7	108	2.8	45.8	118	127.0
TRD000047		3.4	102	2.9	92.7	145	124.0
TRD000048		3.9	107	3.2	40.0	110	120.5
TRD000049		3.8	94	2.9	35.9	78	109.0
TRD000050		3.0	73	2.9	20.5	52	102.5
TRD000051		2.9	77	2.9	24.6	81	108.0
TRD000052		4.5	143	3.0	96.6	147	133.0
TRD000053		4.0	127	3.0	93.7	182	131.0
TRD000054		1.0	236	0.5	22.0	85	107.5
TRD000055		3.1	100	2.9	40.7	111	117.5
TRD000056		4.0	109	2.5	47.1	104	131.0
TRD000057		2.8	96	2.8	32.7	106	111.0
TRD000058		3.8	90	2.9	35.2	103	117.0
TRD000059		3.3	105	2.9	39.7	106	125.0
TRD000060		2.7	71	2.6	31.4	84	107.0
TRD000061		2.2	47	3.8	24.4	74	94.5
TRD000062		2.8	88	4.3	28.5	108	120.5
TRD000063		2.5	77	4.2	23.2	86	106.0
TRD000064		3.6	98	4.1	27.4	96	125.0
TRD000065		3.8	106	3.4	23.9	103	119.0
TRD000066		2.7	92	3.2	25.8	90	115.5
TRD000067		3.0	93	3.5	28.2	90	126.5
TRD000068		2.8	89	3.5	28.4	84	110.5
TRD000069		4.5	138	3.6	28.3	198	130.0
TRD000070		4.0	138	3.5	22.1	204	132.5
TRD000071		2.2	53	3.3	19.4	78	97.6
TRD000072		2.7	73	3.7	20.3	90	106.5
TRD000073		2.4	90	3.1	17.7	101	116.5
TRD000074		2.6	89	3.1	18.0	110	113.5
TRD000075		2.6	97	2.5	21.9	99	102.5
TRD000076		3.3	119	2.9	23.8	124	118.5
TRD000077		2.8	93	2.9	23.7	96	121.5
TRD000078		3.9	102	3.1	23.9	112	118.0
TRD000079		2.8	94	3.3	27.5	99	116.0
TRD000080		2.4	88	3.4	29.8	85	116.5



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**CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000081		1.11		0.007	0.06	8.54	1.3	210	0.78	0.05	7.03	0.09	28.5	39.8	4	1.48
TRD000082		1.69		<0.005	0.04	8.02	16.1	540	2.67	0.37	0.14	0.04	100.5	13.4	71	10.25
TRD000083		1.29		<0.005	0.05	8.00	12.6	530	2.73	0.40	0.13	0.06	93.5	11.9	69	10.35
TRD000084		1.99		<0.005	0.10	8.14	72.9	530	2.86	0.77	0.15	0.11	92.3	38.7	69	10.90
TRD000085		1.98		<0.005	0.08	8.11	48.9	550	3.02	0.71	0.14	0.05	93.0	27.7	67	11.20
TRD000086		NSS														
TRD000087		0.45		<0.005	0.03	9.24	28.9	520	1.92	0.75	0.03	0.02	24.6	4.2	86	6.49
TRD000088		1.30		0.010	0.02	9.39	19.2	630	2.29	0.48	0.01	0.02	18.00	4.0	83	6.07
TRD000089		2.24		0.007	0.02	5.93	15.2	420	1.86	0.21	0.01	0.03	51.2	2.2	54	4.01
TRD000090		1.38		0.085	0.02	4.25	12.4	200	1.22	0.17	0.01	<0.02	59.7	1.1	42	2.64
TRD000091		1.86		0.146	0.05	6.93	47.5	440	2.31	0.67	0.01	0.02	45.9	1.7	91	5.50
TRD000092		1.66		0.027	0.02	7.68	10.6	510	2.22	0.41	0.01	0.02	27.3	2.2	68	5.05
TRD000093		1.57		0.011	0.02	8.50	5.1	510	2.12	0.32	0.01	<0.02	38.8	2.0	68	5.03
TRD000094		1.79		0.015	0.04	7.73	4.5	490	2.21	0.26	<0.01	0.05	247	6.3	63	5.02
TRD000095		1.66		0.008	0.03	8.13	29.8	510	2.40	0.59	0.01	0.07	458	19.6	63	5.81
TRD000096		1.43		0.006	0.04	7.98	12.9	520	2.44	0.57	0.01	0.04	272	17.6	67	6.98
TRD000097		1.15		0.005	0.03	7.65	4.7	510	2.59	0.35	0.01	0.07	126.0	10.8	64	7.19
TRD000098		1.42		0.006	0.04	7.45	2.7	520	2.64	0.29	0.01	0.16	147.5	11.6	64	6.10
TRD000099		2.20		0.020	0.04	8.13	16.1	590	2.60	0.43	0.01	0.12	134.0	41.7	68	6.75
TRD000100		1.55		0.012	0.04	8.22	22.9	590	2.47	0.36	0.01	0.05	125.0	25.9	71	6.83
TRD000101		0.88		0.006	0.03	8.04	7.1	580	2.42	0.30	0.01	0.08	93.3	17.6	68	7.92
TRD000102		0.73		<0.005	0.03	8.10	1.4	590	2.36	0.36	0.01	0.04	108.0	12.8	66	9.13
TRD000103		2.64		0.012	0.03	7.96	7.7	570	2.45	0.46	0.01	0.03	124.5	13.0	67	8.15
TRD000104		0.54		<0.005	0.10	8.26	83.3	640	2.53	0.95	0.02	0.10	95.7	26.9	67	10.15
TRD000105		0.96		<0.005	0.07	8.11	33.5	630	2.88	0.40	0.01	0.14	158.5	40.4	66	8.90
TRD000106		1.12		0.007	0.02	8.02	9.8	570	2.77	0.42	0.01	0.06	164.0	31.8	67	11.05
TRD000107		1.18		0.007	0.02	8.06	7.8	570	2.95	0.43	0.01	0.04	157.0	27.0	65	11.85
TRD000108		1.28		0.006	0.05	8.07	1.0	200	0.73	0.04	6.58	0.08	27.1	41.0	3	1.48
TRD000109		0.06		>10.0	1.36	6.19	3660	530	2.19	0.69	0.81	0.08	67.0	12.6	98	8.57
TRD000110		0.06		3.37	0.25	7.61	621	690	2.24	0.39	0.79	0.06	80.6	14.4	128	9.28
TRD000111		0.06		1.160	0.30	7.02	52.4	130	0.38	0.04	7.00	0.51	11.95	43.9	120	0.78
TRD000112		0.04		<0.005	0.01	0.10	0.9	<10	0.05	0.01	0.01	<0.02	2.21	0.5	5	0.10
TRD000113		1.20		0.006	0.02	8.10	6.8	630	2.89	0.62	0.01	0.04	92.0	16.2	67	12.00
TRD000114		1.30		0.008	0.03	8.00	12.1	630	2.68	0.49	0.01	0.03	68.4	36.2	67	9.83
TRD000115		1.38		<0.005	0.03	8.23	5.7	610	2.49	0.38	0.02	0.03	48.1	12.9	68	8.48
TRD000116		1.89		0.005	0.03	8.15	5.1	620	2.59	0.42	0.01	0.04	109.0	18.3	66	10.15
TRD000117		1.00		0.006	0.03	7.71	2.1	580	2.41	0.45	0.01	0.04	92.2	15.1	62	11.05
TRD000118		1.29		0.009	0.06	7.95	1.4	650	2.39	0.39	0.01	0.03	78.7	15.8	65	10.65
TRD000119		1.36		<0.005	0.03	7.23	1.6	630	2.07	0.36	0.01	0.02	52.9	11.8	53	11.50
TRD000120		2.06	98.8	<0.005	0.03	7.91	2.1	570	2.47	0.42	0.01	0.03	85.1	15.8	68	12.30



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**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000081		145.0	7.33	18.70	0.40	3.1	0.058	0.77	13.4	11.8	2.52	1250	0.43	1.53	5.2	42.2
TRD000082		32.0	4.60	21.6	0.46	3.4	0.065	2.89	50.9	47.9	1.50	1195	1.28	0.54	15.0	36.3
TRD000083		34.4	4.42	22.1	0.52	3.3	0.070	2.90	45.4	47.5	1.51	1135	1.26	0.56	14.8	35.2
TRD000084		44.3	3.57	22.0	0.42	3.7	0.066	2.86	45.1	43.4	1.40	1280	2.35	0.78	16.1	50.1
TRD000085		53.6	3.76	23.2	0.49	3.8	0.053	2.93	45.0	45.0	1.41	1280	1.57	0.69	15.9	47.7
TRD000086																
TRD000087		39.7	3.69	23.0	0.38	3.5	0.070	2.35	13.9	23.0	0.42	207	2.84	0.13	15.6	17.8
TRD000088		28.0	2.80	24.5	0.36	4.7	0.085	2.84	9.5	18.8	0.36	216	3.31	0.11	18.4	12.0
TRD000089		28.4	3.41	13.70	0.27	2.9	0.057	1.61	39.2	11.2	0.23	117	2.42	0.07	11.7	12.2
TRD000090		31.4	2.62	10.10	0.33	2.7	0.025	0.81	44.6	11.5	0.12	84	1.67	0.04	9.1	6.1
TRD000091		66.6	5.80	19.65	0.22	3.6	0.071	2.09	28.2	12.8	0.25	113	1.57	0.08	13.7	8.4
TRD000092		50.4	4.26	21.5	0.23	3.4	0.068	2.55	15.8	12.8	0.26	83	0.57	0.10	14.8	11.4
TRD000093		35.0	2.86	20.8	0.13	3.5	0.070	2.57	17.8	14.4	0.26	70	0.54	0.10	15.9	15.5
TRD000094		33.8	2.97	21.0	0.23	3.3	0.076	2.45	22.8	14.5	0.24	184	0.43	0.09	14.8	15.3
TRD000095		54.6	3.53	21.4	0.22	3.5	0.070	2.58	22.0	23.3	0.28	500	0.52	0.09	15.4	27.5
TRD000096		52.5	3.10	21.8	0.24	3.9	0.064	2.58	28.7	28.8	0.30	600	2.69	0.09	16.1	25.8
TRD000097		43.3	3.21	20.9	0.28	3.5	0.066	2.54	54.9	20.6	0.32	367	0.73	0.09	14.8	22.1
TRD000098		40.5	3.22	21.2	0.68	3.4	0.066	2.51	246	26.8	0.75	564	0.30	0.10	15.7	27.8
TRD000099		47.6	3.54	21.6	0.44	3.7	0.074	2.59	114.0	28.3	0.54	1285	1.76	0.10	16.0	41.6
TRD000100		46.2	3.73	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
TRD000101		33.0	3.95	22.3	0.32	3.5	0.076	2.79	62.6	32.7	1.06	738	1.20	0.17	15.7	32.4
TRD000102		25.5	4.38	22.4	0.37	3.5	0.065	2.91	64.8	38.6	1.32	790	0.39	0.22	15.2	35.5
TRD000103		42.5	3.85	21.6	0.34	3.4	0.066	2.77	54.5	30.7	0.92	650	0.84	0.21	15.1	33.3
TRD000104		54.0	2.96	22.2	0.32	3.9	0.069	3.09	54.2	32.8	1.16	764	1.13	0.39	15.9	55.6
TRD000105		57.0	4.28	22.2	0.29	3.5	0.066	2.79	49.5	44.0	1.13	1745	0.52	0.30	15.8	70.2
TRD000106		26.8	4.53	21.4	0.36	3.4	0.077	2.48	37.6	58.0	0.97	1910	0.33	0.19	15.6	75.0
TRD000107		25.4	4.52	22.9	0.41	3.5	0.077	2.49	37.1	60.7	0.96	1780	0.31	0.18	15.4	72.0
TRD000108		140.0	6.96	18.00	0.34	2.9	0.061	0.73	12.0	10.9	2.36	1195	0.39	1.44	5.1	43.1
TRD000109		52.1	3.28	17.05	0.40	3.2	0.054	2.48	32.3	36.3	1.22	344	1.31	0.48	11.4	46.8
TRD000110		30.6	3.91	20.4	0.35	4.2	0.066	2.77	38.7	41.0	1.54	348	0.74	0.70	14.8	64.4
TRD000111		163.0	7.75	16.35	0.34	1.7	0.076	0.37	4.8	11.0	3.77	1325	0.85	1.66	3.4	91.9
TRD000112		4.8	0.35	0.39	0.31	0.3	<0.005	0.01	1.0	14.4	0.01	33	0.68	0.02	1.0	2.7
TRD000113		45.8	4.46	22.5	0.35	3.4	0.064	2.85	30.7	46.2	0.87	1195	0.25	0.16	14.6	54.3
TRD000114		48.5	4.07	21.9	0.33	3.3	0.069	2.76	24.1	45.4	0.63	1615	1.01	0.12	15.3	43.8
TRD000115		55.5	4.11	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
TRD000116		36.2	4.20	22.5	0.37	3.4	0.077	2.97	45.7	40.8	1.11	888	0.48	0.20	15.4	51.6
TRD000117		31.3	3.63	21.2	0.39	3.6	0.069	2.84	40.8	36.0	1.04	784	0.40	0.17	15.2	43.8
TRD000118		15.1	3.66	21.5	0.33	3.6	0.070	3.17	37.4	36.0	1.08	595	0.23	0.17	15.2	42.0
TRD000119		21.7	3.33	19.45	0.43	3.0	0.057	2.94	27.6	34.3	1.01	548	0.16	0.12	13.3	33.4
TRD000120		25.9	3.88	21.6	0.32	3.6	0.062	3.13	44.4	38.3	1.19	937	0.30	0.17	16.1	44.2



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**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000081		400	6.8	23.4	<0.002	0.05	0.14	40.7	1	1.1	151.0	0.36	<0.05	3.62	0.402	0.24
TRD000082		510	17.4	176.0	<0.002	0.08	2.35	14.1	1	4.0	30.5	1.20	0.05	18.30	0.421	0.92
TRD000083		520	18.7	172.5	<0.002	0.12	1.94	14.4	1	3.8	31.7	1.20	<0.05	18.60	0.417	1.04
TRD000084		570	61.6	178.5	0.003	0.08	2.35	14.4	1	3.9	40.2	1.26	0.06	18.35	0.442	0.93
TRD000085		540	54.8	173.5	<0.002	0.10	2.69	15.1	1	4.2	35.7	1.31	0.06	19.05	0.438	0.97
TRD000086																
TRD000087		150	16.0	138.5	<0.002	0.04	1.78	14.0	1	4.2	25.3	1.21	0.08	23.6	0.419	0.65
TRD000088		90	17.8	145.5	<0.002	0.03	1.26	16.2	1	4.5	23.8	1.47	0.05	28.7	0.485	0.70
TRD000089		340	14.8	91.9	<0.002	0.03	0.82	10.0	1	2.8	26.6	0.89	0.05	15.05	0.335	0.46
TRD000090		270	13.3	56.8	<0.002	0.03	1.02	9.3	1	1.9	25.3	0.74	0.11	11.60	0.276	0.30
TRD000091		380	17.0	126.5	<0.002	0.05	1.08	18.8	1	3.4	37.0	1.09	0.25	20.1	0.355	0.62
TRD000092		160	14.8	133.0	<0.002	0.03	0.73	15.2	<1	3.8	33.8	1.18	0.09	18.55	0.396	0.61
TRD000093		120	12.8	138.0	<0.002	0.03	0.75	14.6	1	3.9	29.1	1.17	0.07	19.15	0.413	0.59
TRD000094		120	15.3	130.0	<0.002	0.03	0.71	14.8	<1	3.7	26.0	1.14	0.07	17.25	0.394	0.78
TRD000095		110	17.2	145.0	<0.002	0.03	0.70	15.7	1	3.8	26.2	1.21	0.11	18.25	0.410	0.83
TRD000096		100	15.2	147.5	<0.002	0.03	1.04	15.6	1	3.6	22.3	1.26	0.05	18.95	0.437	1.13
TRD000097		100	11.1	137.0	<0.002	0.03	0.87	13.8	<1	3.6	26.9	1.18	0.06	17.35	0.415	0.77
TRD000098		90	9.7	141.0	<0.002	0.02	0.75	13.4	<1	4.0	29.0	1.18	0.07	17.95	0.405	0.65
TRD000099		120	16.6	146.0	<0.002	0.03	0.83	15.2	<1	3.9	30.2	1.28	0.07	19.20	0.443	1.24
TRD000100		120	16.6	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
TRD000101		90	11.6	155.5	<0.002	0.06	0.90	14.4	<1	3.8	29.9	1.21	0.05	18.40	0.423	0.82
TRD000102		100	10.6	170.0	<0.002	0.03	0.98	14.4	1	3.9	31.3	1.20	0.05	18.20	0.426	0.89
TRD000103		130	13.7	158.0	<0.002	0.03	0.95	14.4	<1	3.8	29.4	1.19	0.09	18.75	0.428	0.85
TRD000104		90	48.6	187.5	<0.002	0.02	1.14	14.2	1	4.0	30.2	1.22	0.09	19.05	0.432	0.98
TRD000105		100	27.4	167.5	<0.002	0.03	1.25	14.2	1	3.8	28.9	1.21	0.05	18.70	0.421	1.41
TRD000106		90	19.8	158.5	<0.002	0.02	1.08	13.7	<1	3.8	24.0	1.22	0.07	18.35	0.411	1.32
TRD000107		80	18.6	158.5	<0.002	0.02	0.97	14.6	1	3.8	22.7	1.24	0.08	18.50	0.419	1.20
TRD000108		390	6.1	36.0	0.002	0.05	0.13	38.9	<1	0.9	148.0	0.35	<0.05	3.59	0.372	0.21
TRD000109		490	33.5	146.5	<0.002	0.74	3530	11.4	1	3.1	98.1	0.90	<0.05	12.40	0.358	0.82
TRD000110		570	21.0	164.5	<0.002	0.15	612	14.6	<1	3.8	105.0	1.14	<0.05	15.20	0.475	0.88
TRD000111		410	22.3	11.2	0.002	0.32	1.52	40.6	1	0.9	186.0	0.23	0.10	0.85	0.577	0.19
TRD000112		10	0.8	0.3	<0.002	0.02	0.31	0.2	<1	0.5	0.8	0.07	<0.05	0.69	0.031	<0.02
TRD000113		90	15.7	173.5	<0.002	0.02	1.40	14.4	1	3.8	23.6	1.21	0.05	18.30	0.415	1.00
TRD000114		80	20.3	166.5	<0.002	0.02	1.60	14.4	<1	3.8	19.8	1.19	0.06	18.00	0.413	0.95
TRD000115		80	17.6	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
TRD000116		80	15.5	179.0	<0.002	0.02	0.88	14.2	<1	3.9	25.5	1.20	0.06	18.45	0.429	0.94
TRD000117		80	17.5	187.0	<0.002	0.02	0.72	13.4	<1	3.8	25.3	1.24	0.05	18.70	0.409	0.90
TRD000118		80	14.6	194.0	<0.002	0.02	0.70	13.4	<1	3.9	30.0	1.19	<0.05	18.55	0.417	0.94
TRD000119		60	12.0	191.5	<0.002	0.02	0.92	11.5	<1	4.3	28.5	1.12	<0.05	16.05	0.360	0.90
TRD000120		100	15.4	208	<0.002	0.02	0.89	13.4	<1	4.0	33.3	1.20	<0.05	18.25	0.419	0.95



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**CERTIFICATE OF ANALYSIS BU22052100**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000081		1.0	224	0.5	21.9	83	108.0
TRD000082		2.6	92	3.4	30.0	91	113.5
TRD000083		2.8	94	3.2	26.0	97	112.5
TRD000084		6.7	103	3.1	28.5	120	131.5
TRD000085		4.7	99	3.8	28.7	106	127.0
TRD000086							
TRD000087		3.3	120	5.7	14.2	58	127.5
TRD000088		3.4	109	5.1	13.6	83	156.5
TRD000089		2.6	62	6.2	13.4	41	100.5
TRD000090		2.5	43	11.2	9.1	16	95.6
TRD000091		4.0	81	12.2	9.6	28	112.0
TRD000092		3.1	88	6.6	10.2	35	106.5
TRD000093		3.0	89	8.2	12.8	27	119.0
TRD000094		2.9	90	6.1	14.0	60	108.0
TRD000095		4.0	92	6.9	14.6	70	114.5
TRD000096		4.7	126	13.6	19.7	51	125.5
TRD000097		3.2	95	9.9	32.6	72	112.5
TRD000098		2.7	89	3.8	84.3	159	112.0
TRD000099		3.9	106	4.5	53.8	123	119.5
TRD000100		4.0	102	5.1	28.5	95	122.5
TRD000101		2.9	98	3.4	36.5	133	116.0
TRD000102		2.5	94	3.3	43.6	114	111.0
TRD000103		3.5	95	5.5	35.5	90	109.5
TRD000104		6.5	102	3.3	38.4	103	125.5
TRD000105		3.6	94	3.2	36.3	123	114.5
TRD000106		2.7	90	2.8	36.9	142	113.5
TRD000107		2.6	89	2.9	36.3	144	112.0
TRD000108		0.9	216	0.4	22.9	80	103.0
TRD000109		2.4	81	7.9	11.8	91	104.5
TRD000110		2.8	106	3.1	17.3	103	136.0
TRD000111		0.2	268	28.5	19.8	137	50.1
TRD000112		0.2	2	0.2	0.6	3	8.9
TRD000113		3.2	93	3.2	22.3	119	103.5
TRD000114		3.6	94	5.2	17.1	85	113.0
TRD000115		2.7	92	4.4	26.4	130	117.5
TRD000116		2.9	93	4.8	31.1	115	113.0
TRD000117		2.7	86	4.5	27.5	97	116.5
TRD000118		2.7	90	3.5	25.8	107	112.5
TRD000119		2.1	76	3.9	19.2	88	100.5
TRD000120		2.7	89	3.3	28.6	105	121.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000121		1.41		<0.005	0.03	7.96	1.7	560	2.57	0.47	0.01	0.04	76.4	16.4	65	11.35
TRD000122		2.12		0.005	0.16	7.65	2.7	580	2.43	1.58	0.01	0.03	87.8	17.2	59	10.85
TRD000123		2.53		0.006	0.08	8.33	7.2	780	2.70	0.85	0.01	0.04	120.0	21.4	58	14.65
TRD000124		1.77		<0.005	0.03	7.61	2.2	610	2.35	0.44	0.01	0.02	84.2	15.6	60	11.75
TRD000125		2.03		0.005	0.04	7.90	2.5	570	2.75	0.48	0.02	0.03	101.0	16.2	65	11.95
TRD000126		1.57		0.006	0.03	7.96	1.6	530	2.62	0.45	0.04	0.02	85.9	15.0	66	10.95
TRD000127		1.75		0.017	0.02	8.15	0.9	520	2.73	0.29	0.03	<0.02	101.0	14.4	66	12.50
TRD000128		1.93		0.025	0.08	8.30	16.3	490	2.79	0.82	0.04	0.04	82.5	25.2	68	9.98
TRD000129		2.17		<0.005	0.07	7.93	8.4	470	2.65	0.42	0.04	0.08	89.6	19.3	66	8.91
TRD000130		1.47		<0.005	0.02	8.16	1.8	540	2.64	0.31	0.07	<0.02	98.7	13.6	67	12.00
TRD000131		1.81		<0.005	0.02	7.57	5.7	530	2.97	0.28	0.05	<0.02	91.0	13.3	64	9.26
TRD000132		1.82		<0.005	0.02	7.67	2.5	570	2.66	0.23	0.03	<0.02	91.5	14.2	64	7.25
TRD000133		2.13		<0.005	0.11	8.33	1.8	750	2.68	1.29	0.05	0.02	101.5	16.3	59	10.65
TRD000134		1.86		<0.005	0.11	8.31	1.6	590	2.52	1.24	0.07	0.03	97.1	15.6	68	8.17
TRD000135		1.97		<0.005	0.03	8.28	1.3	540	2.86	0.88	0.10	<0.02	129.5	16.6	68	8.49
TRD000136		1.75		<0.005	0.01	8.40	1.3	560	2.97	0.28	0.10	0.02	110.5	16.4	69	10.60
TRD000137		1.30		<0.005	0.02	7.50	0.9	500	2.63	0.21	0.10	<0.02	83.6	14.8	62	9.38
TRD000138		1.27		0.015	0.07	8.47	1.3	210	0.75	0.11	6.97	0.08	30.2	37.8	4	1.50
TRD000139		2.15		0.127	0.03	8.12	1.5	630	2.78	0.93	0.10	<0.02	96.3	16.0	66	10.60
TRD000140		1.99		0.200	0.02	8.07	1.2	620	2.83	0.65	0.08	<0.02	85.9	15.8	70	13.10
TRD000141		1.69		0.018	0.01	8.21	1.2	550	2.72	0.24	0.09	0.02	92.5	15.6	68	11.00
TRD000142		2.46		0.042	0.03	7.73	1.4	570	2.92	0.75	0.08	0.02	110.5	15.7	67	9.19
TRD000143		2.21		0.012	0.02	8.19	2.5	590	2.88	0.20	0.09	<0.02	91.2	15.8	72	8.47
TRD000144		2.24		<0.005	0.03	7.79	1.9	570	2.94	0.22	0.11	0.02	93.2	15.2	67	7.80
TRD000145		2.14		<0.005	0.03	8.69	1.0	660	3.33	0.39	0.11	0.02	97.1	16.0	97	9.36
TRD000146		3.10		<0.005	0.05	8.27	1.0	580	3.13	0.87	0.10	<0.02	93.7	15.4	69	9.73
TRD000147		3.63		0.008	0.03	8.09	2.2	590	2.88	1.13	0.12	0.03	105.5	17.1	70	10.05
TRD000148		3.95		0.027	0.08	8.13	1.7	540	3.03	0.68	0.15	0.04	99.8	15.8	70	11.05
TRD000149		3.24		<0.005	0.03	8.19	1.6	540	2.94	0.34	0.12	0.02	135.5	16.0	70	11.00
TRD000150		3.65		<0.005	0.05	7.97	1.7	530	2.56	0.19	0.14	0.04	108.5	14.8	70	10.95
TRD000151		4.29		0.006	0.03	8.30	2.2	580	2.26	0.26	0.15	0.03	92.6	15.9	71	12.45
TRD000152		3.41		0.007	0.03	7.87	2.4	530	2.71	0.47	0.13	0.03	94.5	16.2	69	10.95
TRD000153		3.74		<0.005	0.03	8.14	1.6	530	2.71	0.47	0.14	0.03	108.0	16.2	72	12.30
TRD000154		3.85		<0.005	0.04	8.16	1.3	530	2.51	0.44	0.16	0.03	94.5	16.0	70	14.30
TRD000155		3.35		<0.005	0.04	8.12	0.8	550	2.65	1.04	0.15	0.03	79.9	16.2	69	13.15
TRD000156		4.06		<0.005	0.02	8.09	1.0	520	2.73	0.48	0.13	0.02	89.3	15.9	71	9.85
TRD000157		2.34		<0.005	0.03	7.97	1.5	480	2.80	0.56	0.13	0.02	80.3	15.9	67	9.04
TRD000158		3.81		<0.005	0.02	7.95	1.1	470	2.98	0.43	0.13	0.02	102.0	15.1	68	8.90
TRD000159		3.77		<0.005	0.02	7.83	0.9	460	2.55	0.42	0.13	0.02	94.5	16.7	68	9.60
TRD000160		3.78	98.4	<0.005	0.03	8.06	0.9	480	2.74	0.62	0.13	0.02	92.6	16.6	74	9.75



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 Account: TINONEAUS

Project: Panama Project 1-3-22

**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000121		26.5	4.11	21.4	0.29	3.6	0.080	3.37	37.7	40.0	1.29	784	0.20	0.18	16.8	40.4
TRD000122		34.8	3.55	21.0	0.31	3.3	0.068	3.13	42.6	39.1	1.40	942	0.29	0.20	15.2	39.9
TRD000123		47.6	3.75	23.2	0.23	4.0	0.064	3.07	59.5	44.0	1.40	1290	0.42	0.24	15.6	44.7
TRD000124		25.6	4.00	21.1	0.33	3.4	0.071	3.22	40.4	38.5	1.28	932	0.21	0.22	14.8	38.8
TRD000125		27.6	3.84	21.1	0.24	3.6	0.072	3.10	47.2	42.7	1.27	961	0.35	0.24	15.4	41.6
TRD000126		23.7	3.99	21.2	0.26	3.7	0.082	3.27	39.6	41.9	1.33	879	0.23	0.31	16.2	39.1
TRD000127		20.8	4.27	22.2	0.29	3.6	0.079	3.32	48.6	43.0	1.38	832	0.23	0.28	16.0	37.9
TRD000128		60.4	3.63	22.2	0.24	3.9	0.095	3.04	37.4	41.2	1.43	735	1.40	0.38	16.4	47.0
TRD000129		92.4	3.70	21.3	0.33	3.4	0.073	2.90	42.8	39.7	1.38	701	0.96	0.40	15.6	40.7
TRD000130		21.7	4.19	21.1	0.31	3.6	0.075	3.38	45.6	40.0	1.35	633	0.37	0.36	15.6	36.6
TRD000131		22.9	4.23	19.60	0.32	3.5	0.056	2.81	45.1	37.2	1.22	625	0.78	0.45	14.9	36.8
TRD000132		23.9	4.09	20.5	0.29	4.0	0.080	2.80	45.3	37.8	1.35	611	0.48	0.33	15.2	37.9
TRD000133		37.5	3.80	21.7	0.30	4.3	0.080	2.83	49.0	45.8	1.50	848	0.92	0.44	16.1	39.6
TRD000134		35.7	4.19	21.8	0.28	3.6	0.072	2.61	47.6	47.1	1.56	1095	1.36	0.64	15.7	39.5
TRD000135		31.1	4.53	22.3	0.38	3.6	0.074	2.96	64.7	45.9	1.54	1100	0.52	0.46	15.6	40.5
TRD000136		18.0	4.46	21.9	0.36	3.6	0.072	3.32	55.0	45.1	1.44	912	0.30	0.36	16.0	40.2
TRD000137		17.8	4.06	19.80	0.46	3.7	0.072	3.01	39.9	41.0	1.29	820	0.27	0.32	14.8	35.8
TRD000138		149.0	7.15	17.70	0.31	3.1	0.051	0.77	13.6	11.0	2.47	1215	0.50	1.49	5.3	39.5
TRD000139		20.8	4.29	21.2	0.36	3.8	0.074	3.11	48.5	47.5	1.43	821	0.42	0.34	15.6	39.8
TRD000140		18.6	4.26	22.4	0.39	3.8	0.090	3.28	41.0	49.3	1.46	903	0.53	0.39	15.9	40.7
TRD000141		9.9	4.15	22.0	0.31	3.5	0.074	3.27	45.1	46.5	1.40	778	0.45	0.30	15.6	41.1
TRD000142		10.0	3.65	21.4	0.35	3.5	0.076	2.85	55.4	49.4	1.33	740	0.46	0.33	15.4	39.1
TRD000143		22.0	4.07	21.5	0.32	3.5	0.073	2.91	46.4	52.1	1.39	754	0.27	0.37	16.0	41.6
TRD000144		26.9	4.00	21.4	0.36	3.5	0.062	2.66	43.9	51.6	1.42	767	0.41	0.41	16.0	39.2
TRD000145		32.9	4.64	24.3	0.36	3.6	0.069	3.22	46.4	52.8	1.50	880	0.32	0.40	16.6	46.4
TRD000146		35.3	4.30	22.5	0.41	3.4	0.062	3.08	46.3	51.1	1.41	791	0.35	0.45	15.8	39.5
TRD000147		32.0	3.75	22.6	0.38	3.6	0.078	2.90	51.8	47.7	1.43	989	0.47	0.58	15.7	40.4
TRD000148		38.0	4.37	22.3	0.45	3.7	0.072	3.16	47.5	45.1	1.42	1005	0.50	0.53	16.5	38.9
TRD000149		30.8	4.42	22.1	0.40	3.7	0.060	3.15	66.1	45.4	1.45	1065	0.41	0.51	16.0	40.5
TRD000150		64.3	3.97	21.2	0.36	3.8	0.076	3.01	53.7	41.4	1.43	1240	0.47	0.64	15.8	36.8
TRD000151		22.4	4.49	22.4	0.11	3.3	0.088	3.23	45.6	46.0	1.49	1360	0.52	0.62	15.5	37.2
TRD000152		24.7	4.12	22.3	0.40	3.4	0.083	3.09	45.8	48.1	1.45	1245	0.42	0.58	16.0	38.7
TRD000153		28.1	4.47	22.1	0.36	3.5	0.079	3.30	53.1	48.1	1.48	1250	0.43	0.58	16.0	39.8
TRD000154		35.1	4.52	22.0	0.40	3.5	0.077	3.12	44.6	46.7	1.57	1910	0.49	0.66	16.0	38.2
TRD000155		20.8	4.69	22.0	0.38	3.5	0.083	3.28	36.8	44.0	1.51	1650	0.46	0.58	15.7	39.0
TRD000156		26.0	4.29	21.8	0.44	3.9	0.081	3.30	42.9	37.5	1.42	1130	0.40	0.47	15.4	38.0
TRD000157		27.4	4.17	21.3	0.11	3.2	0.058	3.23	39.8	37.8	1.41	1165	0.42	0.50	15.2	34.7
TRD000158		28.0	4.27	21.4	0.47	3.6	0.060	3.25	50.3	38.3	1.41	1100	0.41	0.48	15.5	36.3
TRD000159		19.6	4.48	22.5	0.29	3.6	0.069	3.22	47.6	34.1	1.41	1055	0.56	0.45	14.8	38.7
TRD000160		25.7	4.42	23.1	0.28	3.5	0.071	3.29	47.1	36.1	1.47	1100	0.54	0.46	14.6	39.8



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 Account: TINONEAUS

Project: Panama Project 1-3-22

**CERTIFICATE OF ANALYSIS BU22052100**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000121		100	14.4	215	<0.002	0.02	1.04	13.6	<1	3.9	42.5	1.28	0.05	18.55	0.413	1.07
TRD000122		120	69.4	194.5	<0.002	0.02	1.02	12.8	1	3.9	39.0	1.19	0.10	18.20	0.394	0.93
TRD000123		180	41.9	195.0	<0.002	0.02	1.26	15.8	1	3.9	33.1	1.39	0.08	21.7	0.410	1.20
TRD000124		200	14.8	211	<0.002	0.02	0.80	13.4	<1	3.8	36.5	1.15	0.06	18.05	0.407	1.04
TRD000125		250	15.6	194.5	<0.002	<0.01	0.94	14.9	<1	3.9	35.2	1.18	0.08	20.5	0.420	1.07
TRD000126		260	14.6	210	<0.002	0.01	1.02	14.8	<1	4.3	38.1	1.19	0.05	20.4	0.434	1.09
TRD000127		220	11.7	214	<0.002	0.01	0.73	15.2	<1	4.2	33.6	1.21	0.05	21.0	0.436	1.17
TRD000128		220	39.3	182.5	0.002	0.01	0.87	15.2	1	4.3	33.9	1.24	0.06	21.2	0.438	0.91
TRD000129		320	19.4	171.5	<0.002	0.01	0.74	14.3	1	4.1	32.5	1.15	0.05	19.45	0.425	0.82
TRD000130		390	10.0	214	<0.002	0.01	0.63	14.4	<1	4.1	31.4	1.22	0.05	20.7	0.434	1.21
TRD000131		580	10.6	183.0	<0.002	<0.01	0.64	13.4	<1	3.7	41.1	1.16	<0.05	19.20	0.421	0.90
TRD000132		330	9.1	157.5	<0.002	0.01	0.61	13.6	<1	4.1	30.4	1.19	<0.05	18.85	0.411	0.82
TRD000133		290	40.9	183.5	<0.002	0.01	0.89	14.4	1	4.5	32.9	1.27	0.12	21.7	0.409	0.93
TRD000134		340	60.6	160.5	<0.002	0.01	0.86	14.8	<1	4.1	31.9	1.21	0.09	21.6	0.430	0.83
TRD000135		460	17.4	176.5	<0.002	0.01	0.78	15.1	<1	4.3	31.9	1.19	0.07	20.2	0.434	0.82
TRD000136		480	11.6	207	0.002	0.01	0.66	14.7	<1	4.3	30.1	1.21	<0.05	20.5	0.436	1.01
TRD000137		430	12.0	187.0	<0.002	0.01	0.57	13.1	<1	3.8	26.8	1.12	<0.05	18.50	0.393	0.95
TRD000138		410	9.3	35.3	<0.002	0.05	0.24	41.6	1	1.0	148.0	0.35	<0.05	4.23	0.401	0.20
TRD000139		460	14.3	194.0	<0.002	0.01	0.87	14.5	<1	4.2	29.7	1.16	0.12	19.35	0.425	0.93
TRD000140		480	16.3	183.5	0.002	0.01	0.84	14.2	<1	4.4	29.2	1.21	0.10	17.15	0.434	1.15
TRD000141		410	10.2	204	<0.002	0.01	0.79	14.6	<1	4.4	26.3	1.19	<0.05	19.50	0.431	1.04
TRD000142		380	12.5	174.0	<0.002	0.01	0.97	14.1	<1	4.1	29.7	1.21	0.13	18.30	0.413	0.90
TRD000143		410	10.8	176.5	<0.002	0.01	1.36	14.3	<1	4.4	33.5	1.20	<0.05	19.90	0.435	0.82
TRD000144		510	12.1	161.0	<0.002	0.01	1.68	13.7	<1	4.2	36.0	1.22	<0.05	19.15	0.433	0.69
TRD000145		470	12.2	184.5	<0.002	0.01	1.12	15.8	<1	4.7	35.9	1.28	0.05	20.8	0.446	0.89
TRD000146		470	16.1	185.5	<0.002	0.01	0.99	14.8	<1	4.2	33.8	1.22	0.06	19.65	0.434	0.95
TRD000147		520	19.0	182.0	0.002	0.01	0.98	14.8	<1	4.1	37.8	1.17	0.23	20.1	0.435	0.95
TRD000148		520	22.2	204	<0.002	0.03	1.08	14.8	<1	4.1	34.5	1.23	0.06	20.1	0.432	1.05
TRD000149		530	15.3	208	<0.002	0.02	0.99	14.6	<1	4.3	33.6	1.20	<0.05	20.1	0.431	1.02
TRD000150		590	14.3	191.5	<0.002	0.02	0.96	14.0	<1	4.1	35.5	1.21	<0.05	19.35	0.435	0.94
TRD000151		580	15.8	207	<0.002	0.02	0.91	13.8	<1	4.2	35.5	1.15	<0.05	17.70	0.440	1.00
TRD000152		550	17.4	169.0	<0.002	0.02	1.20	14.1	<1	4.2	33.6	1.20	<0.05	16.25	0.424	0.99
TRD000153		600	19.0	223	<0.002	0.02	0.93	14.9	<1	4.2	34.2	1.21	<0.05	19.65	0.426	1.16
TRD000154		550	23.9	221	<0.002	0.01	1.02	14.5	<1	4.1	45.4	1.23	<0.05	19.45	0.427	1.14
TRD000155		570	20.9	221	<0.002	0.01	1.12	14.8	1	4.1	40.2	1.18	0.05	19.90	0.428	1.07
TRD000156		540	15.4	205	<0.002	0.02	1.02	14.6	<1	4.0	38.8	1.17	0.07	18.50	0.425	0.98
TRD000157		540	15.2	197.0	<0.002	0.02	1.16	13.2	<1	4.0	40.2	1.14	0.05	16.80	0.420	0.91
TRD000158		530	16.0	198.0	<0.002	0.02	1.16	14.0	<1	4.1	41.5	1.16	<0.05	19.10	0.419	0.95
TRD000159		510	15.4	192.5	<0.002	0.03	0.89	14.8	<1	3.7	40.4	1.24	<0.05	17.70	0.403	0.92
TRD000160		490	18.6	190.0	<0.002	0.02	1.01	15.1	1	3.7	40.6	1.22	<0.05	18.20	0.419	0.92



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000121		2.7	88	3.0	24.8	104	117.0
TRD000122		4.0	84	2.6	27.7	99	112.5
TRD000123		4.8	92	3.3	29.9	100	119.5
TRD000124		2.9	85	2.7	25.1	95	109.5
TRD000125		2.9	91	3.1	25.6	100	119.0
TRD000126		2.8	92	2.8	24.3	96	125.5
TRD000127		2.7	94	3.2	29.3	92	119.0
TRD000128		4.8	97	3.5	20.8	94	123.0
TRD000129		3.3	91	3.0	22.4	95	118.0
TRD000130		2.8	93	3.1	22.2	90	119.0
TRD000131		2.9	86	3.0	26.0	83	116.5
TRD000132		2.7	89	3.4	25.6	86	114.5
TRD000133		2.8	89	4.3	32.8	98	123.0
TRD000134		2.8	93	6.1	26.3	101	115.5
TRD000135		2.7	92	4.1	36.8	105	125.5
TRD000136		2.7	94	4.6	31.0	102	118.0
TRD000137		2.6	84	4.1	23.2	90	130.5
TRD000138		1.0	222	0.5	22.5	86	106.5
TRD000139		2.9	91	8.0	29.9	90	115.5
TRD000140		2.9	95	5.0	25.7	78	116.5
TRD000141		2.9	92	5.9	27.8	84	116.5
TRD000142		3.0	88	6.7	32.7	77	113.5
TRD000143		2.8	93	5.8	26.8	89	116.5
TRD000144		2.8	86	5.6	24.8	102	139.0
TRD000145		2.8	99	3.8	21.1	117	119.5
TRD000146		2.8	94	4.9	26.0	97	117.5
TRD000147		2.8	92	6.6	26.7	97	120.5
TRD000148		2.7	92	3.4	26.2	105	122.5
TRD000149		2.7	93	4.0	35.7	104	121.0
TRD000150		3.1	90	3.1	30.6	100	121.5
TRD000151		2.8	90	4.8	26.2	98	116.0
TRD000152		2.9	92	3.2	30.9	95	115.0
TRD000153		3.0	89	2.8	31.1	104	114.5
TRD000154		3.0	93	2.5	26.4	103	120.5
TRD000155		3.2	89	2.6	23.1	102	120.0
TRD000156		2.9	93	4.0	24.4	102	113.5
TRD000157		2.8	88	3.9	28.9	97	112.0
TRD000158		2.8	91	3.3	35.4	95	114.5
TRD000159		2.6	86	3.1	29.2	97	112.5
TRD000160		2.5	93	3.6	25.4	102	108.5



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Project: Panama Project 1-3-22

**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	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000161		3.99		<0.005	0.02	7.94	1.2	490	2.76	0.38	0.13	0.02	92.1	16.6	68	12.25
TRD000162		2.14		<0.005	0.02	8.18	1.1	500	2.78	0.60	0.12	0.02	79.1	16.8	70	12.30
TRD000163		2.65		<0.005	0.02	7.84	1.3	500	2.79	0.54	0.11	0.02	98.1	15.5	67	12.00
TRD000164		1.46		<0.005	0.04	7.97	1.3	540	2.87	1.22	0.11	<0.02	96.9	15.6	75	12.40
TRD000165		1.55		0.007	0.05	8.46	1.2	210	0.73	0.06	6.93	0.09	27.9	40.6	7	1.60
TRD000166		3.41		<0.005	0.02	7.90	1.9	660	2.58	0.29	0.12	<0.02	79.6	15.5	61	11.90
TRD000167		3.60		<0.005	0.03	8.07	1.7	550	2.84	0.42	0.12	0.03	123.5	15.6	68	12.65
TRD000168		3.71		0.017	0.03	7.92	4.6	500	2.67	0.50	0.15	0.03	96.8	15.3	69	10.45
TRD000169		2.43		0.012	0.02	8.41	1.2	550	2.77	0.58	0.12	0.03	93.2	14.0	69	12.20
TRD000170		3.00		0.011	0.04	8.14	15.7	490	2.56	0.37	0.12	0.04	83.4	25.9	68	9.31

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



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Project: Panama Project 1-3-22

**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														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000161		24.1	4.33	24.5	0.38	4.1	0.052	3.22	44.1	39.6	1.43	1265	0.41	0.51	15.1	38.1
TRD000162		23.8	4.41	22.9	0.30	3.6	0.077	3.40	40.6	37.4	1.44	1020	0.31	0.45	15.1	39.6
TRD000163		21.8	4.39	21.3	0.35	3.4	0.071	3.13	50.8	36.0	1.35	1035	0.37	0.40	14.4	36.9
TRD000164		24.3	4.41	22.0	0.34	3.4	0.064	3.08	49.2	38.1	1.34	1050	0.45	0.39	14.8	39.4
TRD000165		146.0	7.13	18.35	0.42	3.0	0.061	0.76	13.1	11.0	2.48	1205	0.50	1.52	4.9	41.6
TRD000166		15.0	3.76	21.6	0.38	3.5	0.061	3.15	39.1	37.6	1.35	847	0.37	0.44	14.7	36.4
TRD000167		28.7	4.37	23.3	0.50	3.7	0.069	3.30	62.2	40.3	1.44	716	0.35	0.49	15.0	37.1
TRD000168		41.4	3.83	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
TRD000169		23.1	4.50	23.7	0.49	3.7	0.074	3.26	46.2	43.0	1.47	899	0.31	0.57	15.7	38.2
TRD000170		65.5	3.64	22.6	0.37	3.8	0.064	2.82	42.4	39.4	1.46	1080	2.75	0.72	15.2	46.4

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Project: Panama Project 1-3-22

**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														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000161		520	19.6	201	<0.002	0.05	1.23	15.8	1	3.6	43.7	1.38	<0.05	19.75	0.423	1.03
TRD000162		470	16.9	217	<0.002	0.03	1.14	15.0	<1	3.9	40.0	1.27	<0.05	18.45	0.431	1.07
TRD000163		480	15.6	189.5	<0.002	0.02	1.15	13.6	1	3.8	38.6	1.20	0.08	17.00	0.413	0.96
TRD000164		470	23.0	192.0	<0.002	0.02	1.24	14.0	1	3.8	38.9	1.24	<0.05	17.60	0.416	0.97
TRD000165		410	6.6	33.6	<0.002	0.04	0.18	39.6	<1	0.9	148.5	0.36	<0.05	3.60	0.396	0.20
TRD000166		460	14.6	198.0	<0.002	0.02	1.16	13.8	1	4.1	46.1	1.24	<0.05	17.80	0.394	1.04
TRD000167		530	11.7	207	<0.002	0.03	0.83	15.0	<1	3.9	39.4	1.32	<0.05	18.05	0.424	1.10
TRD000168		530	14.3	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
TRD000169		520	11.3	197.5	<0.002	0.03	0.98	15.3	<1	4.0	38.1	1.34	0.08	19.05	0.446	1.01
TRD000170		500	19.6	160.0	0.004	0.03	1.30	14.4	<1	3.8	35.5	1.31	0.05	18.55	0.435	0.80

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



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Project: Panama Project 1-3-22

**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	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000161		3.0	92	4.6	23.8	92	118.0
TRD000162		2.9	93	5.7	21.5	99	114.5
TRD000163		2.5	88	10.4	28.9	96	111.0
TRD000164		2.5	88	12.3	28.8	94	113.0
TRD000165		0.9	220	0.4	21.9	82	102.0
TRD000166		2.4	85	8.2	22.3	91	111.5
TRD000167		2.4	91	4.5	24.1	100	110.0
TRD000168		3.4	91	3.8	24.7	92	121.5
TRD000169		2.7	95	3.8	24.9	98	120.0
TRD000170		4.2	94	3.4	21.6	85	119.0



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Project: Panama Project 1-3-22

<b>CERTIFICATE OF ANALYSIS BU22052100</b>
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	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 22-JUN-2022  
 Account: TINONEAUS

**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

**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	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000176		0.41	99.5	0.535		0.04	8.76	12.9	660	2.11	0.33	0.03	0.03	56.4	5.9	88
TRD000177		0.96		0.078		0.02	8.39	37.3	640	2.17	0.47	0.01	0.02	68.2	5.5	80
TRD000178		1.08		0.048		0.02	9.19	17.4	780	2.21	0.27	0.01	0.02	79.3	4.7	80
TRD000179		0.99		0.037		0.02	8.90	18.4	820	2.34	0.20	0.01	<0.02	50.2	2.8	53
TRD000180		1.05		0.031		0.01	8.51	17.4	710	2.17	0.28	0.02	<0.02	40.2	1.7	26
TRD000181		0.80		0.059		0.01	8.27	49.1	670	2.43	0.29	0.02	<0.02	41.1	1.9	28
TRD000182		1.34		0.076		0.03	8.47	11.6	730	2.41	0.21	0.01	<0.02	34.9	2.6	63
TRD000183		1.16		0.039		0.03	9.24	24.9	740	2.54	0.23	0.01	0.03	58.0	3.2	59
TRD000184		0.89		0.010		0.03	8.37	8.0	730	2.63	0.27	0.01	0.03	54.2	2.7	68
TRD000185		0.59		0.016		0.03	8.82	2.0	780	2.65	0.18	<0.01	0.03	52.4	3.0	75
TRD000186		0.74		<0.005		0.03	9.32	1.9	810	2.86	0.17	<0.01	0.04	87.4	4.3	71
TRD000187		0.74		<0.005		0.04	9.24	2.4	820	3.07	0.41	0.01	0.05	244	3.9	76
TRD000188		0.40		<0.005		0.08	8.09	37.9	750	3.00	1.02	0.01	0.07	>500	18.4	70
TRD000189		1.14		0.009		0.06	8.48	24.2	790	3.06	0.68	0.01	0.08	>500	18.6	72
TRD000190		0.62		0.338		0.12	7.95	10.2	780	3.32	0.21	0.01	0.08	185.0	16.9	69
TRD000191		1.19		0.181		0.03	8.22	8.8	810	3.25	0.24	0.01	0.06	133.0	14.2	70
TRD000192		0.97		0.007		0.06	8.46	1.3	220	0.69	0.04	7.09	0.10	25.5	41.6	5
TRD000193		0.60		0.154		0.03	8.00	3.3	740	2.86	0.15	0.01	0.04	172.0	12.6	71
TRD000194		2.58		0.015		0.03	8.50	3.5	750	2.86	0.24	0.01	0.03	166.5	5.7	70
TRD000195		1.64		0.014		0.03	8.69	4.7	750	2.83	0.20	0.02	0.04	170.0	6.5	69
TRD000196		1.95		0.142		0.03	8.65	12.6	760	2.82	0.35	0.02	0.03	145.0	5.8	65
TRD000197		1.41		0.224		0.03	8.75	6.0	770	2.93	0.20	0.01	0.03	97.9	5.8	70
TRD000198		0.64		0.008		0.02	8.55	1.6	770	2.88	0.12	0.01	<0.02	35.0	5.2	70
TRD000199		1.42		0.008		0.02	8.93	2.0	800	2.92	0.17	0.01	0.03	47.7	4.4	70
TRD000200		1.55		0.014		0.02	8.45	2.1	780	2.98	0.25	0.01	0.17	211	7.2	70
TRD000201		1.05		<0.005		0.01	7.92	2.0	790	3.05	0.31	0.01	0.09	273	10.2	68
TRD000202		1.31		0.005		0.01	7.63	2.6	750	2.87	0.26	0.01	0.08	200	8.6	65
TRD000203		1.40		<0.005		0.02	8.36	1.2	770	3.32	0.30	0.01	0.10	258	5.8	68
TRD000204		2.06		<0.005		0.02	8.75	1.6	810	3.36	0.30	0.01	0.09	165.5	5.9	70
TRD000205		0.74		<0.005		0.02	8.17	1.0	780	3.12	0.22	<0.01	0.02	43.2	5.4	70
TRD000206		1.67		<0.005		0.02	7.93	1.7	720	3.29	0.24	<0.01	<0.02	35.6	4.0	68
TRD000207		1.35		0.005		0.03	8.20	1.3	720	3.21	0.29	0.01	<0.02	40.7	3.1	70
TRD000208		1.37		<0.005		0.02	7.94	1.1	700	3.41	0.37	<0.01	0.03	48.2	3.1	72
TRD000209		1.64		0.005		0.03	8.10	9.3	700	3.03	0.52	<0.01	0.02	34.1	3.6	74
TRD000210		2.99		0.005		0.04	8.34	15.2	730	3.16	0.56	0.01	0.02	41.2	6.1	74
TRD000211		1.65		0.005		0.04	7.21	3.1	780	3.17	0.24	0.01	0.02	52.8	11.3	73
TRD000212		1.41		<0.005		0.02	9.27	1.9	890	3.11	0.36	0.01	0.02	113.0	14.0	78
TRD000213		1.58		<0.005		0.02	7.90	5.4	760	2.60	0.29	0.01	0.02	83.9	12.2	68
TRD000214		2.95		<0.005		0.04	8.36	4.6	860	3.16	0.30	0.01	0.11	133.0	11.8	61
TRD000215		2.26	97.9	0.110		0.03	9.00	8.0	940	3.01	0.21	0.04	0.11	164.5	13.4	40



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000176		6.34	24.3	3.78	22.9	0.11	3.6	0.077	2.61	32.8	13.3	0.45	242	0.90	0.16	14.7
TRD000177		4.91	30.9	3.51	19.15	0.09	4.0	0.072	2.55	39.8	10.7	0.32	111	0.82	0.11	15.6
TRD000178		5.31	26.3	2.67	22.9	0.10	4.0	0.075	3.02	43.9	11.4	0.35	116	0.63	0.13	16.2
TRD000179		5.64	29.7	2.00	23.2	0.07	4.3	0.051	2.37	26.2	10.6	0.23	74	1.42	0.11	14.2
TRD000180		6.42	50.1	1.83	21.4	0.06	4.5	0.031	1.83	19.7	11.6	0.16	68	2.49	0.26	11.4
TRD000181		6.42	47.8	1.56	22.8	0.06	4.7	0.028	1.73	19.5	12.0	0.15	65	2.53	0.22	12.2
TRD000182		4.78	32.1	2.34	22.1	0.08	3.5	0.064	2.53	19.0	13.1	0.21	59	0.72	0.13	14.7
TRD000183		5.35	29.8	2.24	23.0	0.09	3.9	0.071	2.50	28.7	12.2	0.23	75	1.05	0.13	14.8
TRD000184		4.71	26.2	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
TRD000185		4.68	36.2	2.61	22.8	0.08	3.2	0.070	3.07	23.7	13.3	0.26	65	0.24	0.12	15.4
TRD000186		4.86	46.6	2.66	23.8	0.14	3.5	0.092	3.13	53.0	14.2	0.27	66	0.24	0.12	16.3
TRD000187		5.69	58.7	2.47	25.9	0.42	3.5	0.090	3.09	191.0	17.2	0.31	67	0.26	0.13	16.5
TRD000188		5.59	61.2	2.25	23.8	0.88	3.6	0.075	2.94	403	19.2	0.35	190	0.45	0.11	16.0
TRD000189		6.08	45.1	2.24	24.2	0.83	3.9	0.081	3.13	377	21.7	0.48	217	0.30	0.12	16.1
TRD000190		7.34	21.9	3.19	21.9	0.33	3.5	0.060	3.06	143.5	23.6	0.50	228	0.36	0.11	15.8
TRD000191		7.78	13.7	3.28	21.7	0.25	3.5	0.091	3.24	112.5	21.9	0.47	190	0.37	0.12	15.7
TRD000192		1.26	159.5	7.48	17.15	0.11	2.5	0.049	0.79	11.8	10.1	2.59	1360	0.47	1.57	5.2
TRD000193		8.57	29.7	3.34	21.2	0.24	3.3	0.085	3.12	107.0	23.3	0.51	232	0.56	0.11	15.2
TRD000194		6.33	37.5	2.45	22.1	0.28	3.4	0.069	3.03	133.5	19.0	0.47	136	0.29	0.11	15.4
TRD000195		8.06	28.4	2.59	23.0	0.25	3.4	0.093	3.06	97.1	21.9	0.45	141	0.33	0.12	15.6
TRD000196		6.44	35.4	2.45	22.1	0.22	3.7	0.076	2.84	97.0	18.2	0.36	135	0.68	0.14	15.2
TRD000197		7.82	20.6	2.85	22.2	0.14	3.6	0.076	2.99	53.2	20.6	0.39	106	0.47	0.13	15.2
TRD000198		8.67	14.1	3.32	22.1	0.09	3.4	0.062	2.99	24.5	22.2	0.39	80	0.25	0.12	15.2
TRD000199		7.62	18.8	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
TRD000200		7.33	26.7	2.59	21.8	0.37	3.4	0.072	3.19	167.0	20.8	0.50	101	0.22	0.12	15.6
TRD000201		9.08	18.0	2.77	22.1	0.49	3.5	0.072	3.22	212	28.3	0.83	176	0.25	0.12	15.7
TRD000202		7.63	19.8	2.60	21.7	0.35	3.3	0.089	3.20	153.0	28.1	0.79	170	0.28	0.12	15.0
TRD000203		7.65	27.2	2.48	23.0	0.43	3.6	0.088	3.20	188.5	26.5	0.62	124	0.26	0.13	15.6
TRD000204		8.18	24.7	2.44	24.0	0.23	3.6	0.056	3.38	99.4	26.0	0.54	120	0.35	0.14	15.7
TRD000205		10.20	21.7	3.42	22.0	0.10	3.4	0.068	3.29	26.9	22.5	0.47	99	0.33	0.12	15.0
TRD000206		7.47	25.0	2.97	22.6	0.09	3.3	0.065	3.09	18.6	27.5	0.32	61	0.27	0.12	15.5
TRD000207		6.52	28.5	3.69	22.8	0.08	3.3	0.074	3.07	20.4	23.3	0.28	55	0.26	0.12	15.6
TRD000208		6.15	39.2	3.53	22.4	0.08	3.4	0.075	2.99	19.2	21.9	0.23	58	0.27	0.12	15.8
TRD000209		6.61	50.7	4.10	20.6	0.15	3.4	0.068	3.11	18.6	19.9	0.33	55	0.39	0.11	15.2
TRD000210		7.20	43.2	4.32	20.8	0.13	3.6	0.067	3.11	21.9	21.9	0.36	81	0.47	0.11	15.4
TRD000211		7.69	27.1	2.65	21.9	0.18	3.3	0.055	3.38	23.6	26.4	0.55	152	0.28	0.11	15.4
TRD000212		8.58	25.9	2.36	23.8	0.16	3.8	0.100	3.61	56.4	28.4	0.72	218	0.27	0.13	17.6
TRD000213		7.96	23.8	2.31	20.8	0.14	3.3	0.089	3.10	39.8	29.9	0.79	279	0.31	0.11	15.1
TRD000214		8.69	32.6	2.44	21.4	0.21	3.5	0.059	3.16	67.8	32.2	0.81	267	0.60	0.11	15.3
TRD000215		9.33	31.6	2.91	20.9	0.25	4.1	0.059	2.57	93.5	34.0	0.54	225	1.49	0.31	13.1



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000176		19.0	350	15.2	119.5	<0.002	0.04	0.78	14.9	1	4.0	36.8	1.21	0.06	19.60	0.443
TRD000177		18.4	260	10.6	126.5	<0.002	0.02	0.76	14.3	1	3.8	37.6	1.18	0.08	22.1	0.465
TRD000178		16.9	210	11.5	137.5	<0.002	0.03	0.73	16.2	<1	4.2	41.5	1.34	0.05	22.8	0.492
TRD000179		12.6	210	14.3	114.0	<0.002	0.01	1.32	12.4	1	3.5	63.3	1.14	<0.05	14.45	0.406
TRD000180		11.8	160	12.2	105.0	<0.002	0.01	1.24	7.8	1	2.7	102.5	0.89	0.05	10.65	0.333
TRD000181		12.4	180	15.7	107.0	<0.002	0.01	1.61	8.1	1	2.8	108.0	0.93	0.06	11.30	0.336
TRD000182		12.2	170	9.6	109.0	<0.002	0.01	0.90	13.8	<1	4.0	61.3	1.16	<0.05	15.95	0.425
TRD000183		12.7	190	12.2	120.0	<0.002	0.02	1.02	14.7	<1	3.8	73.0	1.17	<0.05	17.70	0.426
TRD000184		11.3	140	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
TRD000185		11.9	130	10.0	129.5	<0.002	0.02	0.43	16.0	<1	4.5	48.6	1.24	<0.05	16.30	0.454
TRD000186		12.6	120	10.2	137.5	<0.002	0.02	0.49	16.9	<1	4.5	48.5	1.30	<0.05	19.35	0.467
TRD000187		12.4	130	11.1	144.5	<0.002	0.02	0.54	17.3	<1	4.5	52.5	1.33	<0.05	20.1	0.464
TRD000188		18.2	130	12.2	132.0	<0.002	0.01	0.75	15.0	<1	4.0	57.6	1.26	0.07	17.70	0.459
TRD000189		20.0	130	10.4	138.0	<0.002	0.01	0.54	16.2	<1	4.3	57.5	1.32	0.05	19.40	0.476
TRD000190		34.2	130	7.8	142.0	<0.002	0.01	0.58	15.0	<1	4.0	58.7	1.26	<0.05	17.05	0.446
TRD000191		33.8	130	7.4	149.0	<0.002	0.01	0.51	15.7	<1	4.2	57.1	1.26	0.05	17.00	0.454
TRD000192		44.0	450	5.2	20.8	<0.002	0.04	0.18	38.7	<1	1.1	158.0	0.32	<0.05	2.89	0.421
TRD000193		37.3	100	6.6	151.5	<0.002	0.01	0.46	14.8	<1	4.0	40.9	1.19	<0.05	16.75	0.436
TRD000194		17.4	110	7.4	137.5	<0.002	0.01	0.92	15.3	<1	4.0	45.5	1.27	<0.05	19.20	0.455
TRD000195		18.9	120	7.1	146.5	<0.002	0.01	0.54	15.9	<1	4.2	45.4	1.26	<0.05	18.30	0.460
TRD000196		17.0	150	9.7	133.5	<0.002	0.01	0.77	14.5	<1	4.0	58.3	1.20	<0.05	17.10	0.437
TRD000197		18.2	120	7.5	146.5	<0.002	0.01	0.65	15.8	<1	4.0	47.4	1.25	<0.05	18.70	0.441
TRD000198		19.2	100	6.0	145.5	<0.002	0.01	0.54	16.0	<1	3.9	38.5	1.24	<0.05	19.05	0.449
TRD000199		15.8	110	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
TRD000200		19.0	100	5.6	141.5	<0.002	0.05	1.02	15.3	<1	4.0	39.0	1.24	<0.05	18.10	0.451
TRD000201		27.7	100	5.5	138.5	<0.002	0.06	0.84	15.4	<1	4.0	35.6	1.24	<0.05	16.00	0.450
TRD000202		25.5	90	5.5	121.0	<0.002	0.06	0.79	14.4	<1	3.9	34.8	1.20	<0.05	14.50	0.440
TRD000203		19.4	100	5.8	141.0	<0.002	0.03	0.95	16.6	<1	4.3	38.0	1.30	<0.05	18.30	0.461
TRD000204		17.2	110	6.0	139.0	<0.002	0.02	1.01	16.3	<1	4.3	38.4	1.30	<0.05	17.15	0.484
TRD000205		17.9	110	5.3	152.0	<0.002	0.01	0.74	15.6	<1	3.9	43.1	1.22	<0.05	17.50	0.437
TRD000206		16.0	120	5.2	133.0	<0.002	0.01	0.97	15.8	<1	4.0	46.1	1.22	<0.05	15.90	0.434
TRD000207		13.4	130	5.8	130.0	<0.002	0.01	0.93	16.0	<1	4.2	55.6	1.20	<0.05	16.00	0.445
TRD000208		11.3	140	6.2	124.0	<0.002	0.01	1.06	15.8	<1	4.2	60.1	1.28	0.05	15.50	0.451
TRD000209		16.5	120	8.3	129.5	<0.002	0.01	0.87	14.4	<1	4.0	54.5	1.21	0.05	18.90	0.437
TRD000210		17.6	130	7.8	133.5	<0.002	0.01	0.96	15.0	1	4.0	53.4	1.22	0.05	19.10	0.450
TRD000211		23.6	130	7.5	124.0	<0.002	0.02	0.52	13.3	<1	4.2	43.5	1.24	<0.05	10.90	0.438
TRD000212		32.2	170	7.3	156.0	<0.002	0.21	1.44	16.1	<1	4.6	60.3	1.38	<0.05	21.2	0.508
TRD000213		27.7	120	6.9	132.5	<0.002	0.13	1.00	14.3	<1	4.1	43.5	1.17	<0.05	16.65	0.430
TRD000214		27.0	260	8.9	148.5	<0.002	0.12	1.07	13.8	<1	3.8	108.0	1.15	<0.05	18.35	0.424
TRD000215		38.2	270	14.0	127.0	<0.002	0.26	1.53	10.8	<1	2.9	101.5	0.98	<0.05	16.60	0.356



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000176		0.64	3.0	116	13.4	17.3	59	118.5
TRD000177		0.46	3.7	120	6.5	19.8	45	141.0
TRD000178		0.53	3.7	115	5.4	20.2	54	136.5
TRD000179		0.57	3.2	91	4.3	15.6	48	150.5
TRD000180		0.59	3.0	71	3.3	11.8	29	166.0
TRD000181		0.63	3.2	68	3.2	12.3	29	172.0
TRD000182		0.44	3.3	87	3.9	14.2	39	124.0
TRD000183		0.48	3.0	87	3.8	18.4	56	137.0
TRD000184		0.47	2.6	96	4.4	16.0	66	117.0
TRD000185		0.46	2.6	105	4.0	16.2	90	112.0
TRD000186		0.46	2.8	105	3.4	23.5	104	120.0
TRD000187		0.50	3.2	104	4.2	51.9	76	124.5
TRD000188		0.63	4.8	118	3.4	106.0	100	128.0
TRD000189		0.55	4.7	109	4.5	102.0	92	132.5
TRD000190		0.70	3.3	102	5.3	55.4	109	124.0
TRD000191		0.68	3.0	104	5.3	49.3	108	119.5
TRD000192		0.17	0.8	240	0.4	22.4	97	103.5
TRD000193		0.75	2.8	98	5.3	51.5	115	113.0
TRD000194		0.56	2.9	94	5.7	49.1	67	115.0
TRD000195		0.59	2.8	98	5.0	44.5	72	122.0
TRD000196		0.57	3.1	96	4.5	37.0	69	131.0
TRD000197		0.60	2.9	94	5.6	32.2	67	122.5
TRD000198		0.61	2.9	93	5.2	24.9	73	118.5
TRD000199		0.58	2.7	99	6.5	27.0	61	123.5
TRD000200		0.63	2.6	95	6.3	57.8	71	120.5
TRD000201		0.75	2.5	95	6.5	71.0	100	120.5
TRD000202		0.69	2.5	93	7.7	56.2	91	114.5
TRD000203		0.58	2.7	99	9.3	65.8	78	117.5
TRD000204		0.65	2.8	103	8.7	43.4	66	122.5
TRD000205		0.68	2.7	95	6.9	21.3	59	114.5
TRD000206		0.55	3.0	96	7.0	16.4	51	117.0
TRD000207		0.51	3.1	95	6.5	14.9	56	118.0
TRD000208		0.50	3.1	95	7.5	14.4	50	117.5
TRD000209		0.51	3.6	100	5.6	18.6	67	121.0
TRD000210		0.53	3.7	106	6.3	20.1	67	124.0
TRD000211		0.68	2.7	104	5.9	20.8	52	115.0
TRD000212		0.82	3.1	109	5.8	36.1	48	136.5
TRD000213		0.71	2.5	97	4.6	27.0	55	116.5
TRD000214		0.81	2.9	92	4.3	37.6	82	127.5
TRD000215		0.93	3.5	78	3.9	58.1	116	152.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000216		1.57		0.007		0.04	7.83	4.9	770	2.58	0.28	0.02	0.07	95.4	14.4	57
TRD000217		2.95		<0.005		0.05	8.33	10.2	820	2.72	0.33	0.02	0.10	139.0	16.6	59
TRD000218		1.43		<0.005		0.12	7.31	33.1	780	2.64	1.18	0.01	0.17	96.2	28.9	66
TRD000219		1.01		0.005		0.06	8.40	1.3	210	0.74	0.04	7.02	0.08	25.8	41.3	5
TRD000220		0.06		2.70		0.21	7.65	670	720	2.21	0.38	0.81	0.04	76.9	14.8	134
TRD000221		0.06		>10.0	27.1	1.38	6.27	3890	560	2.31	0.66	0.83	0.08	62.6	12.7	102
TRD000222		0.06		1.080		0.28	6.94	49.4	130	0.37	0.04	7.23	0.53	11.55	43.3	118
TRD000223		0.03		<0.005		<0.01	0.10	0.9	<10	0.06	0.01	0.01	<0.02	2.25	0.4	6
TRD000224		1.23		<0.005		0.08	8.22	29.0	790	2.61	0.55	0.01	0.09	137.0	25.7	70
TRD000225		1.48		<0.005		0.07	7.93	9.5	750	3.13	0.54	0.01	0.03	97.6	13.6	66
TRD000226		1.44		<0.005		0.02	8.40	3.8	750	3.10	0.34	0.05	0.03	131.0	10.6	65
TRD000227		2.67		0.012		0.03	6.62	11.6	550	2.53	0.32	0.01	0.02	101.0	10.8	58
TRD000228		2.00		0.014		0.03	4.52	8.7	340	1.84	0.13	0.01	0.02	79.0	5.7	45
TRD000229		1.83		0.005		0.02	4.08	6.1	280	1.88	0.07	0.01	<0.02	60.6	3.0	38
TRD000230		2.27		<0.005		0.03	6.96	5.3	560	2.93	0.16	0.01	0.02	79.5	3.8	57
TRD000231		2.63		<0.005		0.02	4.28	4.2	330	1.82	0.10	0.01	0.02	67.9	3.2	45
TRD000232		1.94		0.009		0.02	4.84	4.9	400	2.08	0.13	0.01	<0.02	73.3	3.2	45
TRD000233		1.84		0.065		0.02	4.77	3.2	400	1.94	0.12	0.01	<0.02	83.3	2.9	44
TRD000234		1.62		<0.005		0.01	4.05	5.7	330	1.63	0.06	0.01	<0.02	66.9	3.7	40
TRD000235		1.73		<0.005		0.02	3.83	5.3	280	1.67	0.06	0.01	<0.02	60.5	3.6	41
TRD000236		1.47		0.713		0.02	5.78	5.4	470	2.61	0.11	0.01	<0.02	76.9	4.9	55
TRD000237		2.28		0.005		0.03	6.13	3.3	510	2.51	0.13	0.01	0.03	77.6	6.6	60
TRD000238		2.49		0.083		0.03	5.71	4.3	440	2.54	0.25	0.01	<0.02	78.1	6.5	53
TRD000239		1.94		0.232		0.03	6.90	3.8	540	2.87	0.27	0.01	0.02	85.8	10.2	65
TRD000240		1.21		0.008		0.03	7.80	2.7	650	2.88	0.32	0.01	0.02	97.0	12.5	68
TRD000241		2.36		0.008		0.03	7.69	2.9	640	3.04	0.35	0.01	0.02	96.3	12.6	68
TRD000242		2.68		0.006		0.03	7.74	4.2	640	2.82	0.39	0.01	0.04	87.1	13.2	69
TRD000243		1.95		<0.005		0.03	7.87	4.2	620	2.76	0.41	0.01	0.03	83.6	13.1	69
TRD000244		2.54		0.008		0.03	8.01	4.7	620	2.84	0.39	0.01	0.03	84.9	14.4	69
TRD000245		3.00		0.006		0.05	7.25	5.9	560	2.67	0.38	0.05	<0.02	81.9	14.0	67
TRD000246		3.22		0.007		0.03	7.31	4.3	580	2.72	0.33	0.04	<0.02	82.0	13.2	68
TRD000247		2.44		<0.005		0.06	8.15	3.1	650	2.77	0.31	0.06	0.03	88.0	17.5	74
TRD000248		2.28		<0.005		0.05	5.45	7.0	390	1.96	0.18	0.12	0.03	69.8	13.3	56
TRD000249		2.18		<0.005		0.02	4.55	9.1	300	1.74	0.11	0.14	0.02	64.2	11.2	47
TRD000250		0.62		0.005		0.05	8.35	1.3	210	0.75	0.04	6.99	0.09	25.6	41.7	4
TRD000251		1.43		<0.005		0.02	4.99	7.1	360	1.74	0.11	0.16	0.03	70.7	11.1	51
TRD000252		2.70		<0.005		0.01	4.09	11.6	290	1.38	0.08	0.15	0.02	60.2	10.3	48
TRD000253		1.81		<0.005		0.02	4.34	7.5	310	1.38	0.07	0.27	0.02	61.0	11.2	46
TRD000254		4.43		<0.005		0.03	4.48	5.2	330	1.50	0.12	0.17	0.02	59.9	14.2	49
TRD000255		0.58	97.6	<0.005		0.04	5.35	8.1	430	1.86	0.23	0.15	<0.02	63.5	14.9	53



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Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000216		10.25	26.5	3.12	20.3	0.18	3.5	0.068	3.00	48.7	40.2	0.97	570	0.84	0.20	14.0
TRD000217		10.45	40.4	2.98	21.0	0.22	3.8	0.048	3.12	72.9	39.0	1.05	457	0.76	0.18	14.6
TRD000218		8.60	40.5	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
TRD000219		1.33	147.0	7.31	16.55	0.17	2.7	0.043	0.80	12.1	10.6	2.54	1290	0.50	1.51	4.8
TRD000220		8.56	30.4	4.01	18.70	0.13	3.8	0.063	2.87	38.5	38.3	1.55	349	0.65	0.71	14.0
TRD000221		8.06	53.0	3.41	15.70	0.12	2.9	0.065	2.63	31.5	34.5	1.24	348	1.22	0.49	10.8
TRD000222		0.74	167.0	7.71	14.95	0.18	1.6	0.070	0.37	4.6	10.2	3.86	1355	0.83	1.69	3.2
TRD000223		0.09	4.9	0.35	0.26	0.05	0.3	<0.005	0.01	1.1	15.6	<0.01	31	0.68	0.01	1.0
TRD000224		12.65	48.3	2.21	20.7	0.19	3.5	0.064	3.17	70.0	34.7	0.93	260	0.43	0.11	14.7
TRD000225		9.40	25.9	1.58	21.2	0.15	3.6	0.072	3.13	48.7	36.9	0.61	154	0.29	0.12	15.5
TRD000226		9.97	30.2	2.17	21.2	0.20	3.7	0.082	3.29	73.5	33.6	0.63	148	0.29	0.12	15.6
TRD000227		8.16	26.6	1.83	17.05	0.16	3.6	0.049	2.34	53.0	30.9	0.47	136	0.48	0.09	13.2
TRD000228		5.81	14.4	1.48	11.35	0.12	3.3	0.026	1.44	40.4	20.9	0.27	97	1.06	0.05	9.9
TRD000229		5.10	14.4	1.71	9.59	0.09	3.0	0.037	1.27	30.4	19.8	0.18	77	0.74	0.05	8.6
TRD000230		6.75	15.8	1.68	17.60	0.12	4.1	0.055	2.62	40.2	23.3	0.33	67	0.78	0.09	14.1
TRD000231		4.67	12.6	1.38	10.55	0.11	3.7	0.036	1.39	33.6	16.2	0.22	65	1.48	0.05	10.2
TRD000232		5.24	13.0	1.48	12.05	0.13	3.6	0.054	1.75	36.2	17.4	0.25	73	2.22	0.06	10.7
TRD000233		5.78	11.9	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
TRD000234		6.60	7.6	1.34	10.10	0.13	3.5	0.021	1.43	32.9	18.2	0.31	94	1.06	0.04	9.5
TRD000235		5.68	8.4	1.46	9.63	0.11	3.5	0.032	1.28	29.7	17.8	0.27	99	1.56	0.04	9.3
TRD000236		7.05	14.1	1.86	14.70	0.12	3.5	0.038	2.29	38.5	21.5	0.42	97	0.97	0.07	12.1
TRD000237		7.22	16.8	2.17	14.25	0.12	3.4	0.053	2.44	39.5	23.3	0.61	169	1.21	0.07	12.4
TRD000238		7.38	19.2	2.25	14.30	0.12	3.5	0.046	2.15	38.5	22.6	0.56	245	1.06	0.06	12.1
TRD000239		8.36	27.3	3.06	17.20	0.15	3.4	0.053	2.53	43.1	28.9	0.89	431	0.87	0.08	13.6
TRD000240		9.39	26.0	3.58	19.70	0.15	3.5	0.065	3.18	49.0	32.9	1.20	462	0.80	0.10	14.7
TRD000241		9.52	25.7	3.50	19.55	0.16	3.4	0.070	3.18	48.0	33.0	1.16	426	0.94	0.10	15.0
TRD000242		9.02	26.6	3.60	18.95	0.15	3.4	0.055	3.21	44.3	31.7	1.20	491	0.84	0.11	14.7
TRD000243		9.29	24.9	3.70	20.3	0.22	3.4	0.059	3.15	42.8	32.7	1.26	585	0.88	0.12	15.2
TRD000244		9.56	29.1	3.75	21.1	0.25	3.4	0.071	3.20	43.1	35.1	1.26	627	0.77	0.12	15.2
TRD000245		9.61	28.5	3.55	20.3	0.25	3.3	0.078	2.90	40.7	33.1	1.11	707	0.77	0.11	14.3
TRD000246		9.47	24.5	3.52	20.2	0.20	3.4	0.063	3.02	40.9	30.2	1.07	597	0.96	0.11	14.8
TRD000247		11.75	46.2	4.18	23.0	0.28	3.9	0.070	3.40	43.3	34.9	1.26	989	0.90	0.13	16.4
TRD000248		8.11	21.8	2.75	14.25	0.21	3.8	0.043	2.01	33.9	25.3	0.80	660	1.12	0.23	12.6
TRD000249		6.87	11.2	1.95	12.15	0.21	3.8	0.036	1.57	31.1	19.4	0.54	449	0.97	0.24	11.3
TRD000250		1.44	146.0	7.32	18.60	0.48	2.8	0.059	0.76	11.8	11.0	2.49	1245	0.46	1.52	5.0
TRD000251		6.87	13.3	2.27	13.15	0.33	4.1	0.028	1.82	34.3	21.1	0.69	475	1.03	0.33	11.3
TRD000252		5.66	10.2	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
TRD000253		5.27	12.6	2.08	11.00	0.26	3.6	0.032	1.46	29.5	17.7	0.71	327	1.46	0.47	10.1
TRD000254		5.45	14.9	2.15	11.60	0.19	3.5	0.025	1.55	29.2	18.6	0.72	433	1.57	0.43	10.2
TRD000255		6.61	17.4	2.75	14.10	0.27	3.2	0.049	2.08	31.5	23.0	0.95	452	0.85	0.29	11.4



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 Plus Appendix Pages  
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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000216		42.2	160	14.8	130.5	<0.002	0.13	1.14	11.6	<1	3.5	47.4	1.07	<0.05	12.50	0.395
TRD000217		42.9	190	16.0	155.0	<0.002	0.11	1.02	12.9	<1	3.6	58.2	1.15	<0.05	17.70	0.412
TRD000218		40.8	190	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
TRD000219		40.6	440	5.9	26.2	<0.002	0.04	0.17	38.1	1	1.0	150.5	0.32	<0.05	3.45	0.400
TRD000220		61.2	620	19.8	156.0	<0.002	0.15	645	14.6	<1	3.5	104.0	1.03	<0.05	15.15	0.482
TRD000221		43.3	510	32.0	143.5	<0.002	0.78	3710	11.1	1	3.0	98.5	0.81	<0.05	11.90	0.361
TRD000222		86.0	440	20.9	10.4	0.002	0.33	1.37	40.2	1	0.8	184.5	0.20	0.09	0.80	0.590
TRD000223		2.8	10	0.6	0.4	<0.002	0.01	0.26	0.2	<1	0.5	0.6	0.07	<0.05	0.73	0.032
TRD000224		41.6	190	20.0	151.0	<0.002	0.08	1.31	13.9	<1	4.0	56.0	1.13	<0.05	18.85	0.433
TRD000225		31.5	180	17.5	129.5	<0.002	0.04	0.66	14.1	<1	4.0	78.8	1.21	<0.05	16.25	0.440
TRD000226		28.6	190	10.2	148.0	<0.002	0.02	0.54	15.0	<1	4.1	84.4	1.20	<0.05	19.95	0.441
TRD000227		24.6	170	11.8	124.0	<0.002	0.03	0.84	11.2	<1	3.3	61.2	1.01	<0.05	16.40	0.375
TRD000228		15.4	160	9.0	85.6	<0.002	0.02	0.92	7.4	<1	2.3	46.7	0.78	<0.05	12.50	0.287
TRD000229		11.0	200	6.9	70.1	<0.002	0.01	1.34	6.1	<1	2.1	59.5	0.66	<0.05	10.45	0.264
TRD000230		16.0	190	9.0	123.5	<0.002	0.01	1.09	11.7	<1	3.5	74.0	1.12	<0.05	17.80	0.408
TRD000231		13.8	190	7.1	73.7	<0.002	0.01	0.70	6.7	<1	2.0	56.1	0.78	<0.05	12.40	0.297
TRD000232		13.1	200	7.4	86.4	<0.002	0.01	0.92	7.7	<1	2.5	51.5	0.87	<0.05	13.35	0.325
TRD000233		12.2	190	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
TRD000234		17.8	160	6.7	88.0	<0.002	0.01	0.59	6.5	<1	2.2	31.8	0.73	<0.05	11.90	0.279
TRD000235		16.8	150	6.6	79.4	<0.002	0.01	0.63	6.2	<1	1.9	25.4	0.75	<0.05	11.50	0.278
TRD000236		20.8	180	7.2	123.5	<0.002	0.01	0.67	9.6	<1	3.1	32.2	0.94	<0.05	15.55	0.345
TRD000237		24.7	190	7.9	128.0	<0.002	0.01	0.59	9.6	<1	2.8	37.0	0.93	<0.05	16.75	0.361
TRD000238		23.9	210	9.6	123.5	<0.002	0.01	0.68	9.4	<1	3.1	39.1	0.93	<0.05	15.45	0.350
TRD000239		33.1	230	13.8	142.5	<0.002	0.01	0.71	11.5	<1	3.3	50.5	1.07	<0.05	17.20	0.393
TRD000240		33.0	170	10.8	168.5	<0.002	0.01	0.75	13.3	<1	3.8	50.7	1.17	<0.05	18.75	0.419
TRD000241		33.9	180	10.8	173.0	<0.002	0.01	0.71	13.2	<1	3.9	55.4	1.17	0.05	18.80	0.424
TRD000242		34.1	160	10.6	170.0	<0.002	0.02	0.68	12.8	<1	3.7	54.1	1.08	<0.05	17.80	0.424
TRD000243		35.3	130	11.8	169.5	<0.002	0.02	0.74	13.0	<1	3.8	47.7	1.18	0.06	17.05	0.418
TRD000244		35.7	140	12.4	173.0	0.002	0.02	0.78	13.4	<1	4.0	48.3	1.23	0.05	17.55	0.420
TRD000245		34.1	220	16.8	164.5	<0.002	0.02	0.77	12.6	<1	3.8	45.8	1.13	<0.05	16.75	0.392
TRD000246		33.5	250	13.6	166.5	<0.002	0.02	0.79	12.7	<1	3.7	44.1	1.13	0.05	16.80	0.407
TRD000247		38.4	270	17.7	195.0	<0.002	0.02	0.77	13.9	1	4.2	40.2	1.31	0.05	19.00	0.439
TRD000248		27.4	530	13.1	133.5	<0.002	0.02	0.71	8.3	<1	2.8	35.2	0.96	<0.05	14.30	0.346
TRD000249		22.7	640	8.5	119.0	<0.002	0.02	0.86	6.9	1	2.6	31.3	0.87	<0.05	12.70	0.307
TRD000250		40.8	410	6.0	33.6	<0.002	0.04	0.19	38.6	1	1.0	152.0	0.35	<0.05	3.58	0.394
TRD000251		23.5	660	9.4	112.5	<0.002	0.01	0.72	7.6	<1	2.6	33.6	0.92	<0.05	14.20	0.331
TRD000252		21.6	690	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
TRD000253		22.8	780	6.9	83.7	<0.002	0.02	0.52	6.6	<1	2.3	35.9	0.79	<0.05	11.55	0.298
TRD000254		34.6	730	8.2	85.5	<0.002	0.04	0.65	6.5	<1	2.3	30.5	0.80	<0.05	11.05	0.298
TRD000255		29.3	680	9.0	112.5	<0.002	0.03	0.64	8.2	<1	2.7	32.2	0.90	<0.05	12.65	0.329



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000216		0.91	2.7	88	4.2	48.5	122	130.0
TRD000217		0.91	3.2	91	4.8	58.5	127	133.0
TRD000218		0.78	4.1	100	5.3	46.2	125	132.0
TRD000219		0.18	0.9	232	0.4	23.2	90	101.0
TRD000220		0.76	2.6	107	2.7	17.8	109	134.0
TRD000221		0.74	2.4	84	6.9	12.0	96	106.5
TRD000222		0.16	0.2	274	25.0	19.7	148	51.6
TRD000223		<0.02	0.1	3	0.2	0.7	3	7.9
TRD000224		0.69	4.0	102	9.1	76.0	102	125.5
TRD000225		0.60	2.8	94	11.7	47.6	52	140.5
TRD000226		0.63	2.7	94	11.5	63.3	57	137.0
TRD000227		0.55	2.8	75	10.2	43.3	58	126.5
TRD000228		0.40	2.6	51	8.2	26.5	43	118.0
TRD000229		0.31	2.4	44	6.7	17.4	44	103.0
TRD000230		0.53	2.9	77	10.0	23.9	41	146.0
TRD000231		0.35	2.3	47	6.0	24.1	36	129.0
TRD000232		0.41	2.7	57	5.4	21.8	40	119.0
TRD000233		0.41	2.5	55	4.7	24.3	39	112.5
TRD000234		0.46	2.1	46	3.7	22.0	45	116.0
TRD000235		0.39	2.1	43	4.2	19.6	43	118.5
TRD000236		0.57	2.8	66	5.0	22.4	51	120.0
TRD000237		0.61	2.8	69	4.7	21.7	68	118.0
TRD000238		0.59	2.8	64	4.6	21.2	67	121.5
TRD000239		0.68	2.8	77	4.5	23.0	100	118.0
TRD000240		0.86	2.7	90	4.5	30.5	124	117.0
TRD000241		0.82	2.8	88	4.5	27.6	122	123.0
TRD000242		0.78	2.6	90	3.4	25.7	131	126.0
TRD000243		0.85	2.6	89	3.6	24.3	131	117.5
TRD000244		0.85	2.7	90	4.5	25.0	125	120.5
TRD000245		0.81	2.6	82	5.0	23.4	107	117.0
TRD000246		0.80	2.7	83	5.8	23.1	103	132.0
TRD000247		0.94	3.0	93	5.6	23.6	107	135.0
TRD000248		0.68	2.8	60	6.5	22.6	83	134.0
TRD000249		0.63	2.7	49	8.2	25.2	59	128.0
TRD000250		0.21	0.9	221	0.4	22.8	83	101.5
TRD000251		0.61	2.8	54	5.7	20.4	68	141.0
TRD000252		0.45	2.3	43	3.9	18.3	65	117.5
TRD000253		0.42	2.3	47	3.1	18.6	67	123.5
TRD000254		0.45	2.4	47	5.1	18.7	85	121.0
TRD000255		0.53	2.5	59	3.5	20.6	82	108.5



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000256		1.58		<0.005		0.07	7.97	7.6	690	2.92	0.38	0.13	0.03	88.6	17.2	71
TRD000257		1.20		<0.005		0.06	7.78	9.7	650	2.72	0.32	0.12	0.03	84.3	16.0	71
TRD000258		2.83		<0.005		0.05	7.43	8.9	610	2.56	0.32	0.13	0.03	78.4	15.4	68
TRD000259		1.18		<0.005		0.05	7.43	10.0	610	2.54	0.37	0.13	0.02	79.6	15.0	66
TRD000260		1.97		<0.005		0.05	7.42	9.0	630	2.62	0.38	0.12	0.03	80.3	15.6	67
TRD000261		1.43		<0.005		0.04	7.95	5.2	680	2.84	0.36	0.12	0.03	82.5	14.4	68
TRD000262		1.90		<0.005		0.06	7.70	6.4	650	2.79	0.34	0.13	0.03	84.5	14.8	70
TRD000263		1.16		<0.005		0.06	7.15	4.4	600	2.68	0.33	0.14	0.03	80.0	13.3	64
TRD000264		2.04		<0.005		0.06	7.36	4.4	610	2.77	0.34	0.14	0.03	84.3	13.5	67
TRD000265		0.05		0.008		0.07	8.80	26.8	460	2.21	0.56	0.05	0.03	74.2	2.3	83
TRD000266		0.67		0.007		0.05	8.32	10.4	410	2.16	0.46	0.01	<0.02	95.6	1.2	74
TRD000267		0.15		0.006		0.04	8.48	9.7	440	2.22	0.45	0.01	0.02	93.1	1.8	80
TRD000268		1.23		0.005		0.04	8.46	13.0	420	2.35	0.44	0.02	0.02	91.0	1.8	77
TRD000269		0.52		<0.005		0.03	8.22	18.4	460	2.47	0.50	0.01	0.04	92.2	2.3	77
TRD000270		0.18		<0.005		0.04	9.09	23.1	490	2.72	0.60	0.01	0.04	90.5	3.2	81
TRD000271		1.09		<0.005		0.07	8.46	26.7	500	2.78	0.63	0.01	0.02	89.6	3.8	78
TRD000272		0.74		<0.005		0.09	8.72	17.2	510	2.49	0.47	0.01	0.03	90.1	3.8	75
TRD000273		1.06		<0.005		0.07	8.61	17.3	470	2.48	0.46	0.01	0.04	89.2	3.2	76
TRD000274		1.08		<0.005		0.06	7.88	30.4	430	2.95	0.43	0.01	0.06	88.3	2.2	73
TRD000275		0.99		<0.005		0.06	7.88	27.8	450	3.06	0.47	0.01	0.07	91.8	1.9	72
TRD000276		1.24		0.005		0.06	8.21	1.3	200	0.70	0.06	6.84	0.09	25.2	39.1	5
TRD000277		1.14		<0.005		0.05	7.12	7.0	430	2.29	0.37	0.01	0.07	99.2	4.9	66
TRD000278		1.60		<0.005		0.07	6.96	10.8	400	2.28	0.37	0.01	0.06	114.5	6.4	64
TRD000279		1.64		<0.005		0.06	7.90	5.2	510	2.38	0.50	0.02	0.06	107.0	4.2	75
TRD000280		1.57		<0.005		0.14	6.54	17.5	310	2.78	0.47	0.01	0.06	198.5	17.1	59
TRD000281		1.82		<0.005		0.12	7.08	8.3	440	2.47	0.41	0.01	0.05	172.0	9.4	68
TRD000282		1.61		<0.005		0.17	6.82	7.0	380	2.69	0.34	0.01	0.06	129.0	10.7	61
TRD000283		2.22		<0.005		0.19	7.27	4.5	460	3.22	0.43	0.01	0.08	101.5	6.9	66
TRD000284		1.75		<0.005		0.14	7.36	5.0	480	2.74	0.41	0.01	0.12	100.5	3.1	71
TRD000285		1.75		0.005		0.14	7.09	9.3	420	2.55	0.39	0.01	0.06	94.1	2.4	66
TRD000286		1.61		0.005		0.13	7.54	7.2	470	2.31	0.46	0.01	0.04	92.6	1.3	66
TRD000287		1.48		<0.005		0.15	7.36	18.7	480	3.69	0.50	0.01	0.04	98.5	1.2	67
TRD000288		1.78		<0.005		0.14	7.36	16.0	540	2.76	0.48	0.01	0.03	82.3	1.4	66
TRD000289		1.56		0.005		0.14	7.62	14.5	450	3.09	0.51	0.01	0.04	84.1	3.1	71
TRD000290		2.25		<0.005		0.09	6.61	17.0	340	4.12	0.45	0.01	0.29	74.7	12.6	59
TRD000291		2.05		<0.005		0.06	6.75	9.9	400	3.12	0.38	0.01	0.13	99.7	16.4	57
TRD000292		1.80		<0.005		0.04	6.89	67.5	400	3.02	0.34	0.01	0.17	102.0	34.2	54
TRD000293		1.58		<0.005		0.08	8.08	13.3	480	3.68	0.49	0.01	0.17	171.0	35.0	50
TRD000294		1.71		<0.005		0.10	7.50	11.6	470	3.37	0.54	0.01	0.15	147.5	34.4	49
TRD000295		1.77	97.8	<0.005		0.06	6.81	11.8	410	2.83	0.38	0.01	0.09	102.0	16.7	56



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 Plus Appendix Pages  
 Finalized Date: 17-JUN-2022  
 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000256		10.45	32.6	3.97	21.9	0.22	3.7	0.066	3.37	43.2	34.0	1.37	645	1.23	0.18	15.9
TRD000257		10.95	34.3	3.91	21.3	0.37	3.5	0.072	3.18	41.5	35.2	1.26	748	0.58	0.14	15.3
TRD000258		14.80	28.7	3.86	19.50	0.25	3.5	0.058	3.08	38.7	34.2	1.26	754	0.64	0.18	14.8
TRD000259		12.55	31.0	4.01	20.0	0.37	3.3	0.061	3.01	38.5	34.1	1.30	884	0.60	0.18	14.6
TRD000260		11.30	32.6	4.14	19.75	0.33	3.3	0.062	3.09	38.7	32.0	1.31	939	0.61	0.16	14.7
TRD000261		12.05	28.0	4.19	21.8	0.41	3.5	0.072	3.45	40.7	33.0	1.39	806	0.50	0.16	15.2
TRD000262		12.10	32.0	4.05	21.8	0.32	3.6	0.070	3.28	41.2	33.2	1.34	804	0.58	0.19	15.4
TRD000263		10.15	32.8	3.62	19.95	0.36	3.6	0.076	2.95	39.8	31.1	1.25	775	0.63	0.25	15.1
TRD000264		9.48	30.0	3.71	21.1	0.30	3.6	0.057	3.04	41.2	32.2	1.29	724	0.69	0.26	15.5
TRD000265		7.65	32.1	2.47	25.2	0.29	3.6	0.087	2.79	39.8	20.5	0.44	109	1.90	0.12	14.7
TRD000266		8.88	22.3	1.18	22.7	0.27	3.7	0.067	2.73	48.2	28.0	0.35	40	2.66	0.09	14.3
TRD000267		8.85	23.5	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
TRD000268		8.79	26.7	1.75	21.9	0.24	3.9	0.077	2.77	45.2	25.3	0.38	69	1.92	0.10	15.5
TRD000269		8.42	30.6	1.55	23.1	0.24	3.7	0.083	3.03	45.8	25.1	0.35	53	1.22	0.11	16.6
TRD000270		10.05	38.0	2.01	25.5	0.27	3.6	0.103	3.44	44.5	25.9	0.40	73	1.22	0.11	16.1
TRD000271		9.63	57.8	1.74	25.4	0.26	3.6	0.104	3.42	42.2	28.0	0.39	56	1.16	0.11	16.2
TRD000272		8.96	127.0	1.59	24.1	0.22	3.5	0.077	3.44	44.4	27.6	0.41	55	1.17	0.11	15.9
TRD000273		10.15	92.8	1.98	22.7	0.21	3.4	0.074	3.29	42.4	26.2	0.39	37	2.49	0.10	14.3
TRD000274		11.80	60.4	2.86	20.9	0.26	3.3	0.071	3.03	44.9	23.5	0.37	35	1.86	0.09	13.1
TRD000275		11.90	45.3	2.62	22.1	0.29	3.5	0.074	3.14	47.3	24.1	0.38	41	1.93	0.09	13.6
TRD000276		1.59	147.5	7.06	17.75	0.46	2.8	0.050	0.76	11.6	11.3	2.42	1200	0.46	1.50	5.2
TRD000277		8.46	47.8	1.67	19.60	0.25	4.0	0.066	2.89	47.8	22.2	0.36	43	2.87	0.09	14.1
TRD000278		7.76	67.2	1.81	18.30	0.25	3.6	0.074	2.52	43.2	20.1	0.31	69	2.39	0.08	12.8
TRD000279		9.19	37.1	1.25	24.3	0.25	4.1	0.078	3.26	39.5	20.0	0.38	66	1.92	0.10	16.8
TRD000280		9.26	106.0	2.43	17.10	0.27	3.5	0.059	2.13	39.3	20.6	0.28	177	3.38	0.07	11.9
TRD000281		10.30	63.6	1.73	19.70	0.26	3.9	0.067	2.68	50.8	21.3	0.40	137	2.55	0.09	14.0
TRD000282		10.25	69.3	2.06	18.25	0.39	3.9	0.065	2.31	57.9	23.1	0.37	144	2.84	0.08	12.8
TRD000283		9.80	53.0	1.71	20.7	0.37	3.9	0.067	2.79	60.8	23.3	0.41	136	1.92	0.09	14.1
TRD000284		10.60	32.3	1.45	20.7	0.35	4.0	0.066	2.71	58.0	21.5	0.43	102	2.16	0.08	15.0
TRD000285		8.48	24.7	1.27	19.85	0.34	4.1	0.063	2.49	47.1	21.1	0.36	68	2.45	0.08	15.5
TRD000286		8.42	16.5	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
TRD000287		8.66	16.2	1.50	23.4	0.33	4.3	0.093	2.93	50.7	19.1	0.38	55	4.00	0.09	17.0
TRD000288		9.09	34.6	1.68	20.7	0.30	3.9	0.066	2.73	42.0	21.0	0.37	50	11.20	0.08	14.8
TRD000289		11.15	30.3	1.55	22.4	0.30	4.1	0.062	2.80	43.1	22.7	0.45	62	11.05	0.08	16.6
TRD000290		9.77	68.6	2.88	18.40	0.30	3.7	0.062	2.10	37.0	24.4	0.46	102	7.56	0.06	13.9
TRD000291		9.27	36.2	1.52	20.2	0.37	3.7	0.064	2.27	48.0	26.0	0.51	186	1.88	0.07	19.5
TRD000292		8.11	34.3	1.70	22.3	0.36	4.8	0.069	2.46	48.1	29.3	0.70	307	1.80	0.07	38.2
TRD000293		7.88	30.4	2.06	34.6	0.41	18.5	0.154	2.81	76.1	31.8	0.83	374	1.80	0.09	117.0
TRD000294		6.04	29.6	1.87	33.6	0.25	19.8	0.164	2.56	65.3	25.9	0.74	504	1.90	0.10	137.0
TRD000295		6.35	27.4	2.14	21.8	0.35	5.6	0.081	2.06	48.4	30.8	0.83	604	1.44	0.07	38.1



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000256		38.9	580	13.5	181.0	<0.002	0.03	0.65	13.4	<1	3.9	45.5	1.23	<0.05	18.30	0.438
TRD000257		35.5	490	13.2	170.0	<0.002	0.04	0.62	13.6	<1	3.8	56.8	1.18	<0.05	17.60	0.416
TRD000258		35.0	540	15.4	181.0	<0.002	0.07	0.85	12.2	<1	3.5	50.9	1.15	<0.05	17.00	0.414
TRD000259		35.0	520	15.3	170.0	<0.002	0.06	0.87	12.4	<1	3.6	50.1	1.14	0.05	16.60	0.410
TRD000260		36.3	510	13.5	176.0	<0.002	0.12	0.86	12.4	<1	3.7	46.7	1.11	0.05	17.10	0.390
TRD000261		35.5	500	12.2	189.5	<0.002	0.05	0.76	13.3	1	3.9	41.3	1.18	<0.05	17.60	0.404
TRD000262		36.9	540	13.6	183.0	<0.002	0.05	0.78	13.0	<1	4.0	43.2	1.23	<0.05	18.05	0.413
TRD000263		33.3	590	12.0	166.0	<0.002	0.02	0.55	12.3	1	3.7	43.3	1.18	0.05	16.80	0.403
TRD000264		34.1	620	12.4	167.5	<0.002	0.02	0.53	12.6	<1	3.9	41.5	1.23	0.05	17.95	0.415
TRD000265		8.3	220	29.7	167.0	<0.002	0.04	4.46	14.4	2	4.6	64.2	1.16	0.09	22.3	0.397
TRD000266		15.4	210	31.6	179.0	<0.002	0.02	1.96	14.1	1	4.1	90.4	1.13	0.07	33.6	0.367
TRD000267		14.7	220	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
TRD000268		10.9	250	31.4	177.5	<0.002	0.02	3.07	13.6	1	4.5	84.7	1.32	0.05	30.0	0.392
TRD000269		7.5	250	28.5	190.0	<0.002	0.01	7.66	14.2	1	4.7	102.5	1.34	0.05	24.1	0.414
TRD000270		7.4	240	33.0	213	<0.002	0.02	6.94	15.1	1	5.1	96.9	1.37	0.06	23.5	0.405
TRD000271		8.6	260	33.1	209	<0.002	0.02	6.45	16.2	1	4.9	105.0	1.29	0.06	23.0	0.419
TRD000272		7.1	230	26.2	207	<0.002	0.01	3.73	15.8	2	4.5	93.6	1.24	0.08	20.0	0.425
TRD000273		12.2	240	25.1	202	<0.002	0.02	3.10	15.6	1	4.2	96.9	1.09	0.07	20.4	0.389
TRD000274		12.6	310	32.3	198.5	<0.002	0.02	4.37	15.6	1	3.9	89.6	1.02	0.07	18.85	0.358
TRD000275		10.4	310	33.0	205	<0.002	0.02	4.57	15.6	1	4.0	88.3	1.04	0.08	19.55	0.371
TRD000276		38.7	390	6.0	34.5	<0.002	0.04	0.17	36.7	1	1.1	150.5	0.35	<0.05	3.67	0.392
TRD000277		11.0	220	21.8	178.0	<0.002	0.02	2.88	13.5	1	4.0	75.6	1.09	0.06	18.70	0.388
TRD000278		15.2	200	26.1	157.5	<0.002	0.02	2.96	12.5	1	3.5	68.9	1.02	0.06	17.85	0.340
TRD000279		13.3	190	35.0	185.0	<0.002	0.02	2.82	15.7	1	4.7	68.0	1.29	0.07	19.35	0.445
TRD000280		16.4	170	73.5	137.5	<0.002	0.02	4.24	11.8	1	2.9	37.4	0.93	0.08	17.00	0.330
TRD000281		12.4	180	34.3	162.0	<0.002	0.01	3.37	13.0	1	3.9	61.5	1.05	0.07	19.30	0.376
TRD000282		13.0	180	24.7	153.5	<0.002	0.01	3.12	11.9	1	3.4	56.6	1.03	0.06	18.10	0.345
TRD000283		15.5	170	23.2	170.5	<0.002	0.01	3.29	13.5	1	4.1	67.8	1.13	0.07	19.35	0.372
TRD000284		10.8	200	27.8	165.5	<0.002	0.01	3.50	13.2	1	3.9	74.3	1.18	0.05	20.1	0.396
TRD000285		10.5	220	34.4	156.5	<0.002	0.03	3.70	12.5	1	3.6	65.2	1.19	0.06	19.70	0.401
TRD000286		8.4	200	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
TRD000287		7.7	400	29.1	171.5	0.002	0.02	4.62	15.0	1	4.4	85.4	1.30	0.06	22.5	0.415
TRD000288		11.5	280	27.2	169.0	0.002	0.07	3.58	12.9	1	4.1	83.6	1.16	0.05	20.3	0.371
TRD000289		11.0	270	29.8	179.0	0.002	0.06	3.57	14.0	1	3.9	69.1	1.28	0.06	21.1	0.392
TRD000290		33.9	380	26.9	146.0	0.002	0.31	3.07	11.4	1	3.0	39.6	1.11	0.05	18.00	0.330
TRD000291		32.4	180	29.7	159.5	0.002	0.42	2.47	12.4	1	3.8	41.2	1.26	<0.05	18.55	0.357
TRD000292		48.9	130	24.3	165.5	<0.002	0.18	2.85	12.6	1	4.7	41.5	1.83	0.05	22.2	0.362
TRD000293		47.1	180	49.2	150.5	<0.002	0.11	1.66	11.0	1	8.9	35.8	7.87	0.07	53.9	0.363
TRD000294		35.3	220	63.3	109.0	<0.002	0.07	1.24	9.5	1	9.8	33.4	7.65	0.05	45.1	0.355
TRD000295		27.7	140	28.4	109.5	<0.002	0.05	1.37	11.6	1	4.3	31.2	2.15	0.06	22.3	0.365



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**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	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000256		0.88	3.0	91	4.6	23.1	108	131.5
TRD000257		0.82	2.7	89	6.5	22.9	100	129.0
TRD000258		0.91	2.8	83	5.2	22.9	100	124.0
TRD000259		0.91	2.8	85	3.7	22.6	98	116.5
TRD000260		0.89	2.8	84	3.4	22.1	97	114.5
TRD000261		0.89	2.6	85	3.2	22.1	102	117.5
TRD000262		0.90	2.9	86	3.8	23.1	99	121.5
TRD000263		0.79	2.8	82	3.7	22.9	87	119.0
TRD000264		0.79	2.9	83	3.5	22.5	91	125.0
TRD000265		0.83	2.4	93	3.3	17.1	26	118.0
TRD000266		0.85	2.7	105	3.2	19.1	13	123.0
TRD000267		0.89	2.8	108	3.1	20.9	20	126.0
TRD000268		0.87	3.0	100	3.4	17.9	20	129.0
TRD000269		0.90	2.8	92	3.7	18.1	27	124.5
TRD000270		0.97	3.4	90	3.5	18.9	33	121.5
TRD000271		0.99	3.1	96	3.6	17.7	29	118.5
TRD000272		0.93	3.3	97	6.0	18.5	26	120.0
TRD000273		0.89	3.7	115	5.2	18.0	27	115.0
TRD000274		0.93	3.6	130	3.4	17.6	32	116.0
TRD000275		0.93	3.7	135	3.4	18.2	34	119.0
TRD000276		0.21	0.9	218	0.4	22.5	82	102.5
TRD000277		0.82	3.1	101	2.7	18.0	32	130.0
TRD000278		0.81	3.7	99	2.5	20.9	33	120.0
TRD000279		0.85	3.9	128	3.0	19.8	31	138.0
TRD000280		0.77	4.3	84	2.6	20.8	43	121.0
TRD000281		0.97	3.6	98	2.7	29.0	42	128.0
TRD000282		0.92	3.4	93	2.5	40.8	35	125.0
TRD000283		0.92	3.8	109	2.7	51.4	38	131.0
TRD000284		0.90	3.6	103	2.8	38.6	39	135.0
TRD000285		0.79	3.7	96	2.9	21.9	29	141.0
TRD000286		0.89	4.5	102	3.1	20.3	23	144.5
TRD000287		0.89	5.2	105	3.2	21.2	33	144.0
TRD000288		0.87	5.1	99	3.0	19.3	31	133.0
TRD000289		1.03	5.7	103	3.3	19.9	30	137.5
TRD000290		1.22	4.2	89	3.4	19.5	49	121.5
TRD000291		0.99	3.0	76	5.5	25.6	48	120.0
TRD000292		0.82	3.2	77	5.7	35.3	158	167.5
TRD000293		0.86	6.7	69	3.1	84.1	171	>500
TRD000294		0.72	5.9	66	1.9	84.8	140	>500
TRD000295		0.57	3.2	74	2.7	36.8	115	193.5



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**CERTIFICATE OF ANALYSIS BU22066014**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000296		1.36		0.005		0.13	6.15	12.2	390	2.29	0.44	0.01	1.32	92.9	8.9	59
TRD000297		2.34		<0.005		0.15	5.51	14.9	300	2.15	0.40	0.01	4.90	98.2	15.1	60
TRD000298		1.83		<0.005		0.06	8.38	1.3	200	0.73	0.04	6.96	0.09	28.7	40.2	4
TRD000299		1.41		0.005		0.11	5.73	9.6	360	1.67	0.47	0.02	0.45	82.0	7.9	57
TRD000300		1.88		0.007		0.12	6.19	11.1	380	2.25	0.43	0.01	1.09	84.6	8.7	60
TRD000301		1.40		0.005		0.14	5.43	16.2	300	2.22	0.41	0.01	4.43	88.8	14.0	55
TRD000302		0.95		0.008		0.06	8.15	1.1	200	0.67	0.03	6.81	0.08	23.3	37.8	5
TRD000303		1.76		0.006		0.15	7.24	8.0	460	2.07	0.38	0.01	0.17	89.5	6.2	72
TRD000304		1.30		0.006		0.13	7.37	9.5	460	2.06	0.43	0.01	0.06	93.5	7.1	71
TRD000305		1.58		0.006		0.13	7.31	14.6	450	2.31	0.39	0.08	0.04	94.5	7.0	71
TRD000306		1.74		0.006		0.12	6.95	55.7	430	6.94	0.39	0.01	0.14	89.9	7.0	71
TRD000307		1.42		<0.005		0.08	6.09	60.6	380	7.30	0.35	0.01	0.14	89.6	9.3	63
TRD000308		1.37		<0.005		0.05	6.20	27.0	380	4.11	0.32	0.01	0.14	82.7	14.0	59
TRD000309		1.19		0.005		0.05	6.92	19.8	430	3.22	0.32	0.01	0.10	101.0	16.6	61
TRD000310		1.58		0.006		0.03	7.83	12.1	550	4.24	0.29	0.01	0.27	202	22.6	45
TRD000311		1.36		0.007		0.04	6.69	9.6	430	3.34	0.26	0.01	0.11	122.5	15.6	50
TRD000312		2.10		0.005		0.03	7.04	11.4	430	3.01	0.23	0.01	0.08	94.1	16.8	61
TRD000313		2.02		<0.005		0.04	6.48	15.1	360	2.37	0.19	0.01	0.11	89.7	19.0	56
TRD000314		1.62		0.006		0.03	7.78	11.1	480	2.81	0.36	0.01	0.05	97.6	18.6	68
TRD000315		1.26		<0.005		0.05	8.09	14.0	510	2.87	0.52	0.03	0.06	87.4	20.5	66
TRD000316		1.51		0.007		0.03	7.32	8.1	460	2.56	0.34	0.06	0.03	82.2	16.6	62
TRD000317		2.04		0.006		0.02	7.74	9.8	480	2.68	0.24	0.06	0.02	91.5	17.6	67
TRD000318		0.89		0.007		0.06	7.71	1.2	210	0.77	0.04	6.97	0.09	23.7	40.6	4
TRD000319		0.06		3.10		0.22	7.66	676	710	2.17	0.39	0.81	0.05	76.9	14.2	127
TRD000320		0.06		>10.0	25.5	1.36	6.24	3860	550	2.28	0.67	0.82	0.07	63.0	12.2	103
TRD000321		0.06		1.070		0.28	6.77	50.8	130	0.37	0.04	7.19	0.53	11.20	42.4	123
TRD000322		0.13		<0.005		0.01	0.09	0.8	<10	0.05	0.01	0.01	<0.02	2.14	0.4	5
TRD000323		1.69		0.005		0.03	6.99	10.8	450	2.67	0.36	0.06	0.03	63.6	18.0	67
TRD000324		1.37		0.005		0.05	8.10	10.2	510	2.64	0.48	0.05	0.05	80.3	19.2	69
TRD000325		1.73		0.007		0.03	7.85	10.5	490	2.66	0.43	0.14	0.06	91.9	18.9	68
TRD000326		1.52		0.023		0.03	7.32	11.0	440	3.09	0.30	0.03	0.03	90.7	15.6	64
TRD000327		1.44		0.021		0.03	6.73	5.3	420	2.67	0.16	0.02	0.02	89.5	14.6	61
TRD000328		1.21		0.013		0.03	7.13	4.2	430	2.39	0.24	0.04	<0.02	89.5	16.8	63
TRD000329		1.20		0.007		0.03	7.69	5.4	510	2.56	0.39	0.06	<0.02	83.8	17.1	68
TRD000330		1.29		0.010		0.03	7.84	7.6	480	2.74	0.35	0.09	0.02	92.1	16.8	66
TRD000331		1.70		0.006		0.03	7.85	6.8	530	2.75	0.40	0.07	0.03	88.0	17.6	69
TRD000332		1.50		0.006		0.03	8.03	6.6	530	3.15	0.40	0.07	0.04	97.6	16.6	69
TRD000333		1.41		<0.005		0.03	7.79	6.4	540	2.87	0.34	0.09	0.04	95.3	16.2	67
TRD000334		1.01		0.016		0.03	7.31	5.2	500	2.72	0.31	0.13	0.02	92.0	15.1	65
TRD000335		1.11	99.6	0.007		0.04	7.78	6.4	550	2.60	0.43	0.10	0.02	89.1	16.8	68



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000296		9.49	42.1	1.77	17.85	0.31	3.8	0.058	2.33	47.5	20.5	0.48	98	3.50	0.07	13.7
TRD000297		8.58	51.1	1.91	15.55	0.31	4.0	0.055	1.87	49.7	20.0	0.43	99	4.97	0.06	12.9
TRD000298		1.54	141.5	7.24	18.05	0.49	2.8	0.047	0.76	13.2	12.0	2.50	1220	0.45	1.50	5.1
TRD000299		8.84	44.7	1.63	15.35	0.10	3.4	0.049	2.19	42.9	18.8	0.49	110	3.27	0.07	11.9
TRD000300		8.56	43.3	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
TRD000301		7.64	49.8	1.85	14.05	0.10	3.8	0.049	1.84	45.4	20.2	0.42	98	4.93	0.04	11.9
TRD000302		1.26	137.5	7.04	17.70	0.09	2.7	0.062	0.74	10.2	11.0	2.48	1180	0.50	1.47	5.0
TRD000303		9.83	42.2	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
TRD000304		10.35	42.5	1.92	21.4	0.47	4.1	0.068	2.94	48.0	19.9	0.54	100	3.47	0.08	15.4
TRD000305		11.50	40.2	2.55	20.4	0.34	3.9	0.075	2.90	47.8	23.2	0.72	157	4.66	0.10	15.1
TRD000306		15.45	37.8	7.42	19.40	0.46	3.5	0.066	2.76	45.1	25.9	0.73	154	9.63	0.08	12.6
TRD000307		12.35	32.9	6.81	17.30	0.43	3.5	0.054	2.24	44.8	21.2	0.55	144	7.08	0.07	13.2
TRD000308		7.58	25.4	2.96	17.60	0.45	3.5	0.052	1.98	41.3	21.4	0.58	310	2.40	0.07	15.1
TRD000309		5.83	31.5	2.55	22.2	0.41	4.8	0.057	2.31	47.1	27.8	0.83	539	1.44	0.08	36.9
TRD000310		8.68	18.1	2.43	40.4	0.43	24.7	0.187	3.31	89.9	30.2	0.89	417	2.04	0.11	144.0
TRD000311		6.79	19.4	2.64	22.4	0.17	12.0	0.072	2.44	58.1	28.3	0.86	545	1.68	0.08	69.6
TRD000312		7.07	20.8	3.08	18.75	0.14	5.2	0.061	2.36	47.3	33.8	1.07	818	1.53	0.08	27.5
TRD000313		7.68	26.9	2.94	15.75	0.13	4.8	0.057	2.13	45.3	34.0	1.05	780	1.73	0.09	17.5
TRD000314		9.05	33.2	3.61	19.60	0.15	4.3	0.063	2.88	49.6	36.5	1.22	968	1.29	0.11	18.1
TRD000315		10.75	38.5	3.88	20.0	0.15	3.8	0.074	3.26	42.0	37.9	1.36	1255	0.94	0.12	16.9
TRD000316		10.40	27.7	3.70	17.85	0.13	3.6	0.076	2.80	40.6	37.1	1.30	1395	0.64	0.12	15.0
TRD000317		11.70	24.3	3.75	18.50	0.14	3.9	0.074	2.81	46.5	38.1	1.34	1345	0.66	0.13	15.7
TRD000318		1.09	148.5	6.96	16.40	0.16	2.8	0.049	0.75	11.0	11.8	2.43	1255	0.42	1.51	5.0
TRD000319		8.67	30.8	4.00	18.45	0.15	3.8	0.075	2.87	39.4	42.2	1.55	348	0.69	0.70	14.0
TRD000320		8.22	53.0	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
TRD000321		0.69	167.5	7.70	14.45	0.13	1.6	0.073	0.37	4.6	11.0	3.82	1350	0.94	1.71	3.2
TRD000322		0.09	4.9	0.34	0.23	0.05	0.3	<0.005	0.01	1.0	14.4	<0.01	31	0.70	0.01	1.0
TRD000323		10.05	33.4	3.79	18.80	0.15	3.9	0.080	2.85	29.3	37.4	1.25	1260	0.79	0.12	15.9
TRD000324		10.80	35.9	4.17	19.95	0.15	3.5	0.073	3.22	37.1	37.2	1.41	1410	0.97	0.11	15.3
TRD000325		9.64	37.1	3.84	19.60	0.15	4.0	0.073	3.05	45.0	35.0	1.33	1010	0.75	0.12	16.0
TRD000326		13.25	28.7	4.08	18.15	0.16	4.0	0.069	2.73	45.0	32.5	1.06	940	0.63	0.09	14.8
TRD000327		11.65	23.8	3.78	16.50	0.14	4.1	0.057	2.47	44.6	29.9	0.97	636	0.62	0.08	14.5
TRD000328		9.69	36.5	3.56	17.20	0.14	4.0	0.062	2.58	45.0	33.3	1.14	809	0.52	0.08	15.1
TRD000329		10.80	34.8	3.77	19.15	0.14	3.5	0.066	3.06	41.5	34.2	1.29	843	0.53	0.11	15.1
TRD000330		12.00	29.3	3.91	19.15	0.14	3.9	0.061	3.05	46.3	37.3	1.33	1455	0.67	0.10	15.9
TRD000331		11.85	27.6	4.01	19.45	0.14	3.6	0.062	3.15	43.6	37.2	1.34	1195	0.51	0.12	16.0
TRD000332		11.25	28.3	3.82	19.75	0.14	3.8	0.053	3.26	48.7	36.9	1.27	940	0.56	0.15	16.2
TRD000333		11.10	34.1	3.86	19.35	0.14	3.8	0.069	3.21	48.2	35.9	1.32	920	0.57	0.19	16.1
TRD000334		12.25	33.2	3.75	18.15	0.14	3.9	0.062	2.92	46.2	36.6	1.29	1515	0.43	0.14	15.5
TRD000335		11.60	34.7	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



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000296		19.4	180	35.3	151.5	0.002	0.89	3.67	11.6	1	3.3	38.3	1.09	0.07	18.10	0.346
TRD000297		28.1	180	42.8	131.0	<0.002	1.06	3.72	9.8	1	2.7	36.0	1.01	0.07	17.40	0.328
TRD000298		40.8	410	5.7	35.1	<0.002	0.05	0.18	37.7	1	1.1	151.0	0.35	<0.05	3.70	0.389
TRD000299		16.0	150	34.4	130.0	<0.002	0.69	2.85	10.3	1	3.0	39.6	0.96	0.08	16.10	0.329
TRD000300		19.2	170	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
TRD000301		27.2	170	43.1	119.5	<0.002	1.02	3.57	9.9	1	3.0	34.1	0.90	0.06	17.35	0.319
TRD000302		39.0	400	5.6	18.2	<0.002	0.05	0.15	37.0	<1	1.1	146.0	0.32	<0.05	3.05	0.391
TRD000303		16.9	140	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
TRD000304		16.2	120	30.8	174.0	0.002	1.12	3.95	13.6	1	4.1	38.4	1.22	0.05	19.65	0.398
TRD000305		18.4	170	26.4	184.5	0.002	1.12	4.49	13.3	1	4.0	36.2	1.14	0.05	19.45	0.383
TRD000306		24.2	1910	26.5	185.0	0.003	0.89	5.17	12.6	1	3.5	30.1	0.91	0.06	17.95	0.313
TRD000307		30.2	1880	24.5	146.0	0.002	0.63	4.52	11.0	1	3.2	32.3	0.96	<0.05	17.05	0.313
TRD000308		31.9	530	22.2	114.5	<0.002	0.39	2.51	10.8	1	3.4	33.4	1.17	<0.05	16.85	0.343
TRD000309		29.4	190	19.4	121.0	<0.002	0.12	1.18	12.4	<1	4.4	32.8	1.83	0.05	21.7	0.359
TRD000310		31.2	250	19.2	176.5	<0.002	0.07	1.10	10.2	<1	11.1	42.0	10.75	0.07	64.0	0.344
TRD000311		27.5	250	16.4	125.0	<0.002	0.09	0.90	9.4	1	5.7	39.1	4.57	<0.05	36.9	0.340
TRD000312		32.8	190	15.0	128.0	<0.002	0.06	0.81	11.7	<1	3.8	36.3	1.78	<0.05	22.2	0.387
TRD000313		42.8	190	14.3	127.0	<0.002	0.05	1.12	10.4	<1	3.1	44.3	1.24	<0.05	20.0	0.401
TRD000314		38.3	180	16.8	158.5	<0.002	0.09	1.62	13.4	1	3.8	37.0	1.35	<0.05	21.9	0.417
TRD000315		39.7	230	19.2	180.0	<0.002	0.06	1.69	13.6	<1	4.4	33.2	1.29	<0.05	21.6	0.401
TRD000316		36.7	360	19.2	166.0	<0.002	0.03	1.40	12.2	<1	3.9	37.5	1.15	<0.05	19.00	0.408
TRD000317		39.4	400	19.8	177.5	<0.002	0.03	1.30	13.1	<1	3.9	42.5	1.22	<0.05	20.9	0.449
TRD000318		42.0	410	5.9	15.5	<0.002	0.04	0.09	37.0	1	1.1	152.0	0.33	<0.05	3.22	0.389
TRD000319		61.7	600	20.3	162.5	<0.002	0.15	641	14.3	1	3.4	104.0	1.04	<0.05	16.00	0.481
TRD000320		44.8	500	31.9	148.5	<0.002	0.77	3670	11.1	1	3.1	99.4	0.77	<0.05	12.80	0.348
TRD000321		87.5	430	21.3	7.9	0.002	0.33	1.38	39.4	1	0.8	186.0	0.19	0.10	0.82	0.589
TRD000322		2.7	10	0.7	0.4	<0.002	0.01	0.14	0.2	<1	0.5	0.8	0.05	<0.05	0.71	0.031
TRD000323		38.6	360	21.6	122.5	<0.002	0.05	2.06	11.8	<1	3.5	38.7	1.25	<0.05	15.50	0.422
TRD000324		41.3	290	24.1	176.0	<0.002	0.04	1.85	13.8	<1	4.0	35.6	1.21	<0.05	20.1	0.428
TRD000325		38.9	240	19.4	170.0	<0.002	0.04	1.64	14.1	<1	3.7	50.7	1.22	<0.05	21.1	0.437
TRD000326		37.6	470	15.8	169.0	<0.002	0.03	1.44	12.5	<1	3.7	56.8	1.12	<0.05	19.90	0.427
TRD000327		35.1	440	11.8	151.0	<0.002	0.02	0.83	11.3	<1	3.2	48.3	1.10	<0.05	19.20	0.405
TRD000328		35.7	340	13.6	152.0	<0.002	0.02	1.66	11.9	<1	3.1	45.4	1.11	<0.05	19.00	0.425
TRD000329		38.0	370	15.6	169.5	<0.002	0.03	1.32	13.2	1	3.7	38.9	1.13	<0.05	19.50	0.426
TRD000330		38.9	420	15.5	186.5	<0.002	0.03	1.24	13.3	<1	3.8	40.9	1.24	<0.05	20.8	0.442
TRD000331		39.9	410	16.7	176.5	<0.002	0.03	1.50	13.5	<1	3.9	39.6	1.16	<0.05	18.85	0.434
TRD000332		37.5	430	18.0	185.0	<0.002	0.03	1.62	13.9	<1	4.0	44.8	1.24	<0.05	21.1	0.434
TRD000333		37.6	510	17.0	189.0	<0.002	0.03	1.66	13.5	<1	3.8	39.6	1.20	<0.05	20.4	0.422
TRD000334		36.8	540	15.6	182.5	<0.002	0.02	1.52	12.4	<1	3.5	45.5	1.15	0.05	19.70	0.412
TRD000335		38.4	520	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



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000296		1.05	4.0	89	2.6	20.9	24	124.0
TRD000297		1.02	4.2	72	2.7	22.2	26	134.5
TRD000298		0.20	0.9	217	0.4	22.1	82	99.1
TRD000299		0.84	3.5	82	2.8	18.1	23	114.5
TRD000300		0.90	3.7	88	2.6	19.8	26	125.0
TRD000301		0.88	3.9	74	2.6	20.5	26	130.0
TRD000302		0.20	0.9	212	0.4	20.6	80	99.3
TRD000303		1.11	4.0	100	3.3	22.2	26	137.0
TRD000304		1.25	5.0	100	3.0	21.9	27	134.0
TRD000305		1.28	5.2	99	3.3	23.9	38	135.5
TRD000306		1.25	5.6	105	4.7	26.5	57	120.0
TRD000307		0.99	4.9	95	4.5	25.2	48	118.0
TRD000308		0.87	3.1	76	5.0	23.5	51	117.0
TRD000309		0.73	3.0	77	3.8	36.9	88	167.5
TRD000310		1.01	8.1	63	3.1	110.5	186	>500
TRD000311		0.72	4.7	65	3.3	63.2	132	407
TRD000312		0.66	3.2	79	3.5	37.8	111	174.5
TRD000313		0.75	3.2	72	2.8	27.3	124	161.5
TRD000314		0.87	3.1	88	3.4	31.6	121	142.0
TRD000315		0.93	3.4	87	3.1	26.8	121	129.0
TRD000316		0.93	3.0	84	2.6	27.4	100	126.5
TRD000317		0.97	3.1	90	2.7	30.9	96	134.0
TRD000318		0.21	0.9	227	0.4	21.7	90	101.5
TRD000319		0.83	2.7	109	2.7	22.2	108	131.0
TRD000320		0.81	2.3	82	6.7	12.1	94	103.0
TRD000321		0.18	0.2	270	24.7	20.0	146	48.6
TRD000322		<0.02	0.1	3	0.2	0.7	3	8.7
TRD000323		1.04	2.9	88	2.6	20.4	116	129.0
TRD000324		0.94	3.0	94	2.9	20.4	123	116.5
TRD000325		0.87	3.1	92	2.9	30.3	113	129.0
TRD000326		0.90	3.1	85	2.9	28.9	95	133.5
TRD000327		0.76	2.9	77	2.6	27.4	84	140.5
TRD000328		0.73	2.9	79	2.7	28.4	89	138.0
TRD000329		0.87	3.1	89	2.9	25.8	107	118.5
TRD000330		0.98	3.1	90	3.9	29.8	100	131.5
TRD000331		0.90	2.9	92	3.9	30.0	102	124.0
TRD000332		0.90	3.0	92	3.8	30.1	103	128.0
TRD000333		0.90	3.0	89	3.4	31.5	104	129.0
TRD000334		0.90	3.0	84	3.0	30.7	94	130.5
TRD000335		0.91	2.9	91	2.7	30.9	101	123.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GRA21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000336		1.12		0.007		0.03	7.34	6.7	520	2.68	0.36	0.10	0.03	89.7	15.1	63
TRD000337		0.55		0.006		0.05	7.20	3.9	560	2.67	0.52	0.08	0.02	68.8	16.1	67
TRD000338		0.60		0.006		0.05	7.89	3.9	590	2.55	0.51	0.09	0.03	81.7	17.2	67
TRD000339		2.83		<0.005		0.03	8.18	2.4	630	2.82	0.48	0.07	<0.02	92.3	16.8	69
TRD000340		0.43		0.006		0.03	8.14	2.3	630	2.74	0.37	0.07	0.02	89.8	16.8	71
TRD000341		2.56		0.009		0.03	7.28	5.5	610	2.67	0.28	0.06	<0.02	86.7	14.7	63
TRD000342		2.96		0.006		0.02	5.02	6.9	400	1.98	0.09	0.01	0.02	77.2	10.7	46
TRD000343		2.47		0.007		0.03	6.15	3.9	480	2.20	0.16	0.02	0.02	88.2	8.6	55
TRD000344		1.33		0.013		0.03	7.00	4.4	560	2.61	0.28	0.02	0.02	86.6	15.1	62
TRD000345		2.33		0.006		0.03	5.88	5.4	450	2.09	0.18	0.03	0.03	83.9	12.1	52
TRD000346		1.07		0.006		0.02	3.82	6.8	280	1.26	0.07	0.02	<0.02	61.6	9.4	43
TRD000347		1.33		0.009		0.05	6.56	5.6	540	2.43	0.18	0.02	0.03	94.9	8.4	60
TRD000348		0.65		0.008		0.03	7.81	2.4	660	3.16	0.37	0.05	0.02	96.5	13.8	68
TRD000349		1.64		<0.005		0.04	7.72	1.9	660	2.97	0.36	0.04	0.03	93.3	13.6	68
TRD000350		0.71		0.008		0.06	7.93	1.2	200	0.74	0.04	6.97	0.09	25.7	40.4	6
TRD000351		0.71		0.006		0.03	7.73	1.2	690	2.93	0.35	0.09	0.03	92.9	14.8	67
TRD000352		1.18		0.006		0.03	5.53	6.2	480	2.25	0.12	0.04	<0.02	73.1	8.9	63
TRD000353		1.65		0.010		0.03	5.10	6.1	430	2.11	0.12	0.06	<0.02	72.3	9.7	56
TRD000354		1.63		0.008		0.02	4.54	8.6	370	1.72	0.09	0.03	0.02	70.1	8.5	56
TRD000355		1.76		<0.005		0.03	5.00	10.8	420	2.01	0.11	0.02	0.04	76.1	11.4	58
TRD000356		2.03		<0.005		0.03	4.25	5.8	350	1.38	0.09	0.06	0.04	64.9	6.4	54
TRD000357		1.80		<0.005		0.02	3.66	6.3	320	1.40	0.06	0.04	0.04	65.3	5.5	51
TRD000358		1.68		6.59		0.19	5.46	86.3	490	2.20	1.31	0.06	0.03	73.7	9.2	58
TRD000359		1.88		0.285		0.03	7.60	7.6	710	2.98	0.34	0.10	0.04	96.5	10.8	68
TRD000171		2.23		<0.005		0.06	7.87	13.6	470	3.42	0.46	0.10	0.06	88.4	24.5	67
TRD000172		2.66		0.005		0.03	7.96	3.0	500	3.28	0.47	0.11	0.02	89.0	15.0	66
TRD000173		2.68		0.013		0.02	7.21	1.8	530	2.80	0.71	0.12	0.03	59.1	13.2	63
TRD000174		2.99		0.016		0.03	7.16	1.8	540	2.81	0.30	0.14	0.02	65.9	15.4	64



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000336		10.85	25.4	3.48	17.95	0.15	3.8	0.056	2.86	44.7	35.2	1.21	1195	0.53	0.13	15.1
TRD000337		11.10	31.4	3.72	18.65	0.14	3.4	0.068	3.17	32.6	34.4	1.23	938	0.46	0.15	15.4
TRD000338		11.40	29.6	4.01	18.65	0.12	3.5	0.080	3.23	39.7	34.7	1.34	1235	0.48	0.18	15.4
TRD000339		10.50	26.8	3.90	20.0	0.15	3.6	0.075	3.31	46.8	37.2	1.35	1120	0.47	0.18	15.6
TRD000340		11.15	29.1	3.93	20.0	0.14	3.6	0.069	3.34	45.1	36.4	1.35	959	0.40	0.17	15.9
TRD000341		11.10	26.4	4.00	17.95	0.13	3.5	0.079	2.98	43.4	32.1	1.03	1145	0.55	0.13	14.6
TRD000342		8.55	8.4	2.55	11.95	0.12	3.6	0.034	1.79	41.8	22.2	0.53	756	1.02	0.08	11.2
TRD000343		8.60	16.6	2.70	14.85	0.14	3.8	0.050	2.29	46.9	24.3	0.56	488	0.87	0.11	13.0
TRD000344		8.93	26.7	3.08	17.25	0.12	3.7	0.051	2.87	34.4	26.5	0.61	589	0.67	0.10	14.1
TRD000345		8.66	17.9	2.91	14.45	0.11	3.4	0.048	2.24	38.1	23.7	0.65	637	0.86	0.11	12.1
TRD000346		5.64	9.0	1.77	9.11	0.10	3.3	0.029	1.29	29.4	15.1	0.36	381	1.22	0.06	8.9
TRD000347		9.71	17.4	2.93	16.65	0.12	3.7	0.057	2.49	44.4	21.2	0.56	365	0.87	0.13	13.2
TRD000348		10.50	26.8	4.37	20.5	0.13	3.4	0.068	3.16	45.3	34.0	1.12	647	0.71	0.20	15.0
TRD000349		10.45	29.4	4.10	19.70	0.13	3.2	0.088	3.14	43.2	34.1	1.14	644	0.96	0.19	14.6
TRD000350		1.24	146.5	7.24	16.75	0.14	2.7	0.055	0.75	11.4	11.9	2.53	1225	0.45	1.50	4.9
TRD000351		10.70	26.2	3.74	20.5	0.16	3.5	0.078	3.38	43.0	33.3	1.24	655	0.68	0.21	15.2
TRD000352		7.15	9.6	3.04	14.35	0.13	3.0	0.039	2.13	34.2	22.9	0.78	346	1.56	0.27	11.0
TRD000353		7.41	10.4	2.63	13.80	0.12	3.1	0.051	2.02	33.2	22.4	0.67	391	1.48	0.17	10.7
TRD000354		6.51	9.0	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
TRD000355		6.45	15.0	2.61	13.15	0.11	3.3	0.047	1.90	34.8	17.0	0.48	244	2.39	0.13	10.8
TRD000356		3.82	11.5	1.95	10.20	0.10	3.1	0.036	1.57	29.4	14.8	0.50	162	2.27	0.31	9.6
TRD000357		5.14	7.9	1.82	9.33	0.10	3.8	0.033	1.32	30.0	13.6	0.41	180	2.04	0.33	9.0
TRD000358		12.65	14.2	3.09	14.00	0.11	3.6	0.032	2.12	34.1	25.1	0.80	379	1.38	0.29	11.4
TRD000359		12.30	26.6	3.77	20.1	0.14	3.5	0.065	3.30	43.8	39.8	1.22	382	0.77	0.30	14.3
TRD000171		9.08	76.8	3.69	21.3	0.13	3.2	0.065	2.88	40.1	47.8	1.50	1015	2.15	0.63	14.4
TRD000172		11.25	44.2	4.24	21.1	0.13	3.2	0.082	3.06	40.6	52.8	1.45	949	0.84	0.50	15.2
TRD000173		10.70	24.6	4.21	19.80	0.12	3.0	0.079	3.13	25.4	49.7	1.30	976	0.53	0.51	14.4
TRD000174		9.23	34.9	3.84	19.55	0.12	3.0	0.072	2.89	29.1	49.7	1.35	1180	0.56	0.55	14.8



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**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000336		36.1	490	18.0	177.5	<0.002	0.03	1.56	12.4	<1	3.6	43.0	1.15	<0.05	20.1	0.415
TRD000337		39.0	460	22.7	157.0	<0.002	0.03	1.17	12.6	<1	3.9	37.7	1.14	<0.05	16.40	0.412
TRD000338		40.1	490	23.3	192.0	<0.002	0.03	1.12	13.3	<1	3.8	40.6	1.14	<0.05	20.2	0.425
TRD000339		39.1	400	20.2	190.0	<0.002	0.02	0.98	14.1	<1	4.0	43.0	1.19	0.05	20.6	0.434
TRD000340		38.5	390	17.4	184.0	<0.002	0.03	1.10	13.9	<1	4.0	44.0	1.18	0.05	19.75	0.434
TRD000341		35.5	530	15.4	180.0	<0.002	0.03	1.18	12.7	<1	3.7	40.9	1.11	<0.05	19.30	0.393
TRD000342		29.9	480	9.5	137.5	<0.002	0.01	0.79	7.9	<1	2.5	31.4	0.86	<0.05	14.50	0.319
TRD000343		27.4	410	10.5	147.5	<0.002	0.01	0.69	10.1	<1	3.0	40.8	0.99	<0.05	17.40	0.357
TRD000344		30.4	420	11.2	157.0	<0.002	0.01	1.08	11.8	<1	3.3	40.4	1.10	<0.05	18.55	0.395
TRD000345		27.5	430	10.0	143.0	<0.002	0.02	0.86	9.4	<1	2.9	35.8	0.95	<0.05	15.55	0.343
TRD000346		17.8	300	6.9	91.4	<0.002	0.02	0.64	5.9	<1	2.0	28.3	0.69	<0.05	11.10	0.256
TRD000347		20.9	460	11.3	145.0	<0.002	0.02	0.69	11.7	<1	3.1	51.3	1.04	<0.05	16.85	0.379
TRD000348		34.4	590	11.4	182.0	<0.002	0.02	0.52	14.6	<1	3.8	46.8	1.19	0.05	19.10	0.412
TRD000349		34.1	470	11.3	179.0	<0.002	0.02	0.52	14.2	<1	3.9	46.5	1.12	<0.05	18.15	0.400
TRD000350		42.3	400	5.6	21.2	<0.002	0.05	0.17	39.7	<1	0.9	147.5	0.34	<0.05	3.29	0.386
TRD000351		36.7	440	9.3	191.0	<0.002	0.02	0.42	15.0	<1	4.0	43.4	1.20	<0.05	18.45	0.414
TRD000352		26.6	480	8.4	131.0	<0.002	0.02	0.55	9.7	<1	2.8	34.8	0.90	<0.05	14.40	0.314
TRD000353		25.3	400	7.4	136.5	<0.002	0.01	0.52	9.5	<1	2.8	27.5	0.84	<0.05	13.70	0.296
TRD000354		22.3	440	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
TRD000355		23.4	650	7.9	120.5	<0.002	0.03	0.80	8.8	<1	2.7	24.8	0.87	<0.05	14.15	0.309
TRD000356		18.7	610	7.4	88.2	<0.002	0.02	0.54	6.5	<1	2.3	24.0	0.74	<0.05	10.40	0.282
TRD000357		17.0	430	6.3	89.1	<0.002	0.02	0.52	5.8	<1	2.1	21.3	0.72	<0.05	10.90	0.265
TRD000358		25.0	580	9.5	150.5	<0.002	0.02	0.60	9.1	<1	2.9	33.3	0.90	0.63	14.05	0.330
TRD000359		30.8	500	11.5	189.0	<0.002	0.05	0.64	14.2	<1	3.7	38.6	1.14	0.08	17.85	0.404
TRD000171		44.8	440	25.5	159.0	0.002	0.04	1.26	15.3	<1	3.9	32.9	1.17	<0.05	18.25	0.405
TRD000172		36.7	460	12.8	188.5	<0.002	0.03	1.15	15.4	<1	3.8	32.8	1.20	0.05	18.70	0.407
TRD000173		33.9	510	13.3	167.0	<0.002	0.03	0.98	13.5	<1	3.6	32.5	1.10	<0.05	14.50	0.402
TRD000174		36.4	490	13.0	150.5	<0.002	0.02	1.62	13.1	<1	3.6	45.5	1.12	<0.05	14.35	0.408



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**CERTIFICATE OF ANALYSIS BU22066014**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000336		0.89	3.0	85	3.0	29.1	94	128.5
TRD000337		0.92	2.6	89	2.9	24.4	103	117.0
TRD000338		0.95	2.9	92	2.7	28.3	110	124.5
TRD000339		0.91	2.9	93	3.5	30.9	102	121.5
TRD000340		0.89	2.8	93	3.3	30.3	108	122.5
TRD000341		0.94	3.0	84	3.0	27.0	91	116.5
TRD000342		0.62	2.7	54	3.6	29.1	70	123.0
TRD000343		0.65	2.8	66	3.6	29.3	80	126.5
TRD000344		0.76	2.9	79	3.8	23.6	77	120.5
TRD000345		0.65	2.6	63	3.9	24.4	70	120.5
TRD000346		0.42	2.0	39	6.1	16.4	41	115.5
TRD000347		0.64	2.6	70	7.3	21.0	60	128.0
TRD000348		0.85	2.7	86	3.8	25.2	94	121.5
TRD000349		0.77	2.5	85	3.4	24.1	92	115.5
TRD000350		0.20	0.9	218	0.4	21.5	83	102.5
TRD000351		0.85	2.5	85	3.6	24.0	101	129.0
TRD000352		0.56	2.3	60	3.2	19.6	55	106.0
TRD000353		0.57	2.2	57	4.7	19.5	54	109.5
TRD000354		0.55	2.5	50	5.4	21.2	51	128.0
TRD000355		0.55	2.6	58	5.6	20.6	50	117.5
TRD000356		0.34	2.1	45	5.5	21.9	49	114.5
TRD000357		0.36	2.3	38	13.4	17.8	43	137.0
TRD000358		0.71	2.5	60	24.1	21.4	62	128.5
TRD000359		0.89	2.5	82	6.3	23.4	93	125.5
TRD000171		0.82	4.1	90	3.2	22.5	100	111.0
TRD000172		0.93	2.7	88	3.6	24.8	99	115.0
TRD000173		0.97	2.4	87	3.1	18.2	95	111.5
TRD000174		0.86	2.6	86	4.1	22.1	94	113.0



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**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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**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

**CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000361		0.32	99.3	0.012	0.01	7.99	15.0	400	1.64	0.75	0.02	0.02	22.9	4.2	92	6.33
TRD000362		0.63		0.039	0.02	8.73	12.8	470	1.72	1.16	0.01	<0.02	21.4	2.5	97	8.95
TRD000363		0.71		0.031	0.01	7.90	6.4	460	2.06	1.30	0.01	0.02	25.5	2.4	87	8.05
TRD000364		0.77		0.019	0.02	7.76	6.0	470	2.06	1.29	0.01	0.02	23.1	2.4	78	6.37
TRD000365		0.70		0.008	0.01	7.58	6.3	490	1.90	1.22	0.01	<0.02	26.5	2.2	71	5.09
TRD000366		1.41		0.011	0.01	7.98	11.7	420	2.27	1.09	0.01	0.03	27.7	2.4	71	8.72
TRD000367		1.50		0.019	0.01	8.09	14.4	450	2.04	1.10	0.01	<0.02	34.1	2.2	79	8.56
TRD000368		0.52		0.020	0.02	8.82	23.3	570	2.17	1.06	<0.01	0.02	47.8	1.9	85	9.17
TRD000369		0.89		0.007	0.01	8.55	16.6	600	2.27	0.77	<0.01	0.02	65.9	2.0	79	6.36
TRD000370		1.40		0.005	0.01	9.09	10.6	640	2.40	0.41	<0.01	<0.02	45.9	2.1	76	5.01
TRD000371		1.92		0.006	0.02	8.84	23.4	620	2.28	0.55	<0.01	<0.02	67.2	2.2	77	4.77
TRD000372		1.67		<0.005	0.01	8.50	31.6	590	2.33	0.54	<0.01	<0.02	43.8	1.6	74	4.78
TRD000373		0.72		0.005	0.03	8.58	30.1	590	2.36	0.45	<0.01	<0.02	38.2	1.9	73	4.52
TRD000374		1.10		<0.005	0.03	8.56	25.7	610	2.42	0.44	<0.01	<0.02	41.0	3.5	72	4.84
TRD000375		1.59		<0.005	0.03	8.79	27.8	630	2.42	0.40	<0.01	0.02	42.7	2.7	74	4.79
TRD000376		0.81		0.008	0.06	8.44	1.3	210	0.82	0.09	6.94	0.08	28.9	39.2	5	1.41
TRD000377		1.59		<0.005	0.02	8.29	33.0	600	2.42	0.33	0.01	<0.02	28.4	4.9	71	4.35
TRD000378		1.48		<0.005	0.01	8.16	24.9	580	2.46	0.29	0.01	<0.02	32.4	9.1	70	4.28
TRD000379		0.98		<0.005	0.02	8.40	17.8	590	2.48	0.31	0.01	0.02	28.5	7.8	69	4.31
TRD000380		1.32		<0.005	0.02	8.92	31.0	620	2.68	0.25	<0.01	<0.02	44.6	5.2	70	4.36
TRD000381		2.11		<0.005	0.01	9.03	30.7	620	2.44	0.28	<0.01	<0.02	57.3	7.0	76	4.37
TRD000382		1.29		<0.005	0.02	8.73	30.6	640	2.64	0.30	<0.01	<0.02	61.6	10.2	80	4.57
TRD000383		1.03		<0.005	0.02	8.11	16.8	570	2.52	0.23	<0.01	0.02	76.5	16.6	71	4.63
TRD000384		1.17		<0.005	0.03	8.35	26.5	580	2.59	0.25	<0.01	<0.02	23.0	4.0	67	5.62
TRD000385		1.43		<0.005	0.02	8.39	10.8	590	2.88	0.21	<0.01	0.02	53.9	6.3	68	4.94
TRD000386		2.07		0.005	0.03	8.16	15.0	580	2.52	0.34	0.01	0.07	104.5	9.1	68	6.02
TRD000387		1.10		0.006	0.02	7.60	6.1	570	2.51	0.29	0.01	0.04	118.5	10.4	65	7.46
TRD000388		1.65		<0.005	0.02	8.00	8.0	580	2.61	0.30	<0.01	0.06	92.3	8.2	66	6.67
TRD000389		0.94		<0.005	0.02	8.08	4.5	590	2.83	0.25	<0.01	0.03	44.5	10.2	67	7.10
TRD000390		0.89		<0.005	0.01	8.17	9.8	610	2.51	0.29	<0.01	<0.02	65.7	13.0	69	5.38
TRD000391		1.59		<0.005	0.03	7.63	18.6	550	2.19	0.39	0.01	0.02	41.2	7.0	65	4.97
TRD000392		1.53		<0.005	0.06	7.49	24.1	550	2.23	0.50	0.01	0.44	98.7	18.2	67	5.86
TRD000393		1.33		0.005	0.04	7.23	27.2	560	2.06	0.58	0.01	0.18	106.5	18.4	68	6.43
TRD000394		1.67		0.007	0.05	7.03	25.4	540	1.93	0.49	0.01	0.22	89.6	24.6	68	6.89
TRD000395		1.59		<0.005	0.04	7.96	13.6	720	2.19	0.48	0.01	0.13	89.4	26.5	72	8.32
TRD000396		0.93		<0.005	0.02	9.30	2.6	850	2.29	0.12	0.01	0.02	101.0	14.6	74	10.35
TRD000397		1.31		0.006	0.02	7.64	2.2	570	3.13	0.15	0.01	0.03	92.7	9.3	66	15.55
TRD000398		2.33		0.005	0.02	5.53	4.5	370	2.37	0.17	0.01	0.02	77.1	8.8	50	8.48
TRD000399		2.08		0.005	0.02	4.76	2.9	280	2.30	0.14	0.02	0.03	74.1	7.3	44	8.60
TRD000400		0.84	98.9	0.008	0.04	8.03	1.0	210	0.73	0.04	6.61	0.07	29.2	36.5	4	1.62



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000361		40.4	6.23	19.60	0.19	3.3	0.060	1.88	11.2	15.5	0.28	196	3.20	0.08	13.8	15.6
TRD000362		37.4	6.02	19.90	0.13	4.1	0.076	2.18	12.0	12.1	0.28	102	3.55	0.07	14.1	8.5
TRD000363		46.4	6.07	19.75	0.12	3.9	0.065	2.18	13.2	11.8	0.26	107	5.57	0.07	14.8	7.7
TRD000364		46.1	5.53	19.10	0.14	3.7	0.048	2.25	11.9	11.4	0.26	105	6.06	0.07	14.1	7.7
TRD000365		45.6	5.14	18.05	0.12	3.4	0.067	2.34	13.8	11.7	0.26	84	5.99	0.07	13.7	7.0
TRD000366		45.4	4.57	19.35	0.14	3.6	0.062	2.04	11.7	13.8	0.25	101	4.59	0.06	14.9	9.5
TRD000367		42.9	4.67	19.05	0.15	3.8	0.054	2.10	14.9	12.6	0.26	107	3.75	0.07	14.6	9.0
TRD000368		46.0	4.49	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
TRD000369		35.2	3.92	21.7	0.16	3.8	0.073	2.87	9.0	12.2	0.28	204	1.28	0.09	15.2	6.1
TRD000370		34.5	3.46	22.1	0.15	3.3	0.069	3.10	8.0	12.1	0.28	206	0.41	0.10	15.0	6.7
TRD000371		42.0	3.59	21.6	0.17	3.2	0.066	2.98	7.4	11.6	0.27	230	0.42	0.10	14.6	7.8
TRD000372		37.6	3.50	22.0	0.17	3.1	0.070	2.88	8.7	11.6	0.26	231	0.30	0.10	14.8	6.8
TRD000373		40.4	3.20	21.4	0.17	3.0	0.069	2.94	12.9	11.4	0.25	191	0.29	0.10	14.3	7.3
TRD000374		48.1	2.79	22.6	0.19	3.2	0.067	2.96	13.4	12.9	0.25	152	0.14	0.10	15.4	8.2
TRD000375		44.8	2.59	23.0	0.17	3.3	0.080	2.99	13.1	13.0	0.25	144	0.23	0.10	16.2	8.7
TRD000376		147.0	7.23	17.80	0.27	2.8	0.053	0.78	12.6	11.0	2.52	1245	0.41	1.49	5.2	39.6
TRD000377		38.6	2.39	22.4	0.18	3.3	0.097	2.99	6.6	11.8	0.24	186	0.23	0.10	15.8	7.1
TRD000378		37.2	2.79	21.8	0.16	3.2	0.066	2.92	7.2	11.4	0.24	243	0.20	0.10	15.2	7.5
TRD000379		37.4	2.88	22.2	0.17	3.4	0.092	2.89	11.6	11.1	0.24	198	0.14	0.10	15.8	7.8
TRD000380		36.0	2.84	22.8	0.15	3.3	0.069	3.03	10.8	12.4	0.25	257	0.19	0.11	16.2	9.0
TRD000381		33.4	3.10	22.3	0.15	3.3	0.071	3.09	11.0	12.0	0.26	294	0.39	0.11	16.0	7.8
TRD000382		34.0	3.27	23.6	0.16	3.4	0.065	3.30	9.2	13.0	0.25	399	0.31	0.11	16.8	8.0
TRD000383		37.1	3.80	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
TRD000384		34.6	3.40	21.7	0.19	3.1	0.081	2.94	13.1	15.2	0.29	224	0.17	0.10	14.9	11.5
TRD000385		26.1	3.65	22.1	0.20	3.1	0.074	3.01	20.1	13.8	0.29	248	0.22	0.11	15.2	14.2
TRD000386		29.5	3.44	21.1	0.25	3.1	0.074	3.02	68.5	20.1	0.72	395	0.44	0.11	15.0	19.6
TRD000387		24.8	3.62	20.3	0.32	2.9	0.063	3.09	86.7	28.1	1.24	567	0.65	0.13	14.2	26.3
TRD000388		28.9	3.93	20.5	0.27	2.9	0.068	3.02	62.9	21.6	0.79	413	0.29	0.12	14.2	20.3
TRD000389		33.7	3.99	21.2	0.22	3.0	0.070	3.02	26.8	26.3	0.45	469	0.19	0.10	14.8	18.3
TRD000390		30.2	2.88	21.5	0.18	3.4	0.068	3.09	21.5	15.6	0.34	449	0.21	0.10	15.2	9.7
TRD000391		44.5	2.75	19.25	0.15	3.4	0.058	2.78	15.2	14.4	0.33	342	0.29	0.10	14.2	10.5
TRD000392		64.2	2.73	19.35	0.25	3.6	0.058	2.71	58.0	19.2	0.66	366	0.36	0.14	15.0	24.6
TRD000393		65.0	2.81	18.35	0.22	3.8	0.058	2.67	55.9	23.3	0.91	456	0.78	0.17	15.2	29.1
TRD000394		70.9	3.06	17.55	0.21	3.7	0.063	2.60	46.4	23.3	0.94	514	0.72	0.18	13.8	39.2
TRD000395		64.6	3.11	20.9	0.22	3.6	0.092	3.41	42.4	26.9	1.07	572	0.55	0.17	15.6	41.6
TRD000396		17.0	3.11	23.1	0.26	4.0	0.078	3.95	47.5	29.6	1.24	620	0.26	0.17	16.8	34.4
TRD000397		12.6	4.26	19.30	0.22	3.6	0.062	2.62	45.6	32.5	1.07	716	0.39	0.19	15.0	32.6
TRD000398		20.6	3.19	13.50	0.17	2.7	0.041	1.75	39.3	26.6	0.78	595	0.52	0.17	10.8	25.2
TRD000399		18.0	2.89	11.65	0.16	2.6	0.038	1.31	36.0	28.3	0.71	620	0.75	0.18	9.5	25.1
TRD000400		128.5	7.19	16.50	0.28	2.8	0.062	0.76	13.0	11.2	2.46	1205	0.43	1.44	5.0	38.5



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000361		150	14.2	106.5	<0.002	0.03	0.98	11.8	2	3.7	27.8	1.17	0.05	26.5	0.383	0.54
TRD000362		100	13.7	107.0	<0.002	0.03	1.20	13.3	3	3.7	28.6	1.20	0.07	36.9	0.398	0.59
TRD000363		90	15.0	107.5	<0.002	0.04	1.54	14.1	2	3.3	27.0	1.24	0.08	27.9	0.416	0.55
TRD000364		100	14.2	106.0	<0.002	0.04	1.02	13.3	3	3.4	26.9	1.16	0.08	24.6	0.414	0.50
TRD000365		110	15.0	104.5	<0.002	0.04	0.67	12.5	2	3.3	28.9	1.11	0.06	21.0	0.406	0.47
TRD000366		110	16.3	102.5	<0.002	0.03	1.58	13.4	2	3.2	26.5	1.18	0.05	21.1	0.415	0.49
TRD000367		110	15.4	105.0	<0.002	0.03	1.70	13.2	3	3.3	27.5	1.15	0.06	24.7	0.406	0.49
TRD000368		120	16.4	124.5	<0.002	0.03	2.07	15.1	3	3.7	30.4	1.23	0.09	29.6	0.428	0.56
TRD000369		120	17.4	122.0	<0.002	0.02	1.14	15.2	2	4.0	31.4	1.22	0.06	32.8	0.424	0.57
TRD000370		110	15.9	128.5	<0.002	0.02	0.99	15.6	1	4.3	32.3	1.21	<0.05	23.1	0.425	0.56
TRD000371		100	15.8	125.0	<0.002	0.02	0.90	15.5	1	4.2	30.8	1.15	0.05	21.3	0.407	0.55
TRD000372		90	15.4	124.5	<0.002	0.02	0.90	15.9	1	4.1	30.1	1.16	<0.05	21.1	0.406	0.57
TRD000373		130	13.9	121.0	<0.002	0.02	1.18	16.7	1	4.1	29.4	1.17	<0.05	20.1	0.401	0.53
TRD000374		120	16.0	123.0	<0.002	0.02	0.99	17.8	1	4.2	28.2	1.22	<0.05	20.0	0.425	0.49
TRD000375		140	16.4	129.0	<0.002	0.01	0.90	17.8	1	4.3	31.5	1.22	<0.05	19.95	0.437	0.58
TRD000376		400	5.8	34.1	<0.002	0.04	0.18	40.0	<1	1.1	151.5	0.47	<0.05	3.94	0.392	0.21
TRD000377		140	14.2	119.5	<0.002	0.01	0.86	16.9	1	4.1	31.6	1.22	<0.05	16.25	0.427	0.52
TRD000378		130	13.5	121.5	<0.002	0.01	0.82	16.4	1	4.1	31.4	1.19	<0.05	18.20	0.417	0.50
TRD000379		120	13.0	123.0	<0.002	0.02	0.87	15.9	1	4.0	36.1	1.24	<0.05	20.5	0.431	0.51
TRD000380		130	13.4	125.5	<0.002	0.01	0.57	16.6	<1	4.2	36.7	1.22	<0.05	21.3	0.439	0.57
TRD000381		130	13.8	124.0	<0.002	0.02	0.71	16.4	<1	4.0	32.8	1.19	<0.05	21.2	0.444	0.53
TRD000382		190	14.6	130.5	<0.002	0.02	0.73	17.8	1	4.8	34.2	1.30	<0.05	18.35	0.460	0.59
TRD000383		240	14.8	124.0	<0.002	0.01	0.81	17.7	<1	4.0	32.4	1.19	<0.05	19.65	0.416	0.61
TRD000384		100	12.2	128.5	<0.002	0.01	0.64	14.8	1	4.1	33.6	1.13	<0.05	19.05	0.411	0.59
TRD000385		100	11.1	133.0	<0.002	0.01	0.62	14.6	1	4.0	35.6	1.17	<0.05	19.65	0.418	0.60
TRD000386		110	13.4	138.5	<0.002	0.04	0.68	14.4	<1	4.1	34.3	1.15	<0.05	19.95	0.407	0.70
TRD000387		90	9.5	138.0	<0.002	0.08	0.44	13.2	<1	3.8	33.5	1.11	0.05	16.55	0.396	0.83
TRD000388		120	10.0	139.5	<0.002	0.04	0.49	13.8	1	4.0	34.6	1.09	<0.05	18.15	0.402	0.68
TRD000389		120	9.4	137.0	<0.002	0.02	0.66	14.2	<1	3.9	37.0	1.11	<0.05	18.15	0.406	0.70
TRD000390		140	10.6	135.0	<0.002	0.01	0.80	15.5	<1	4.0	32.1	1.14	<0.05	19.60	0.426	0.64
TRD000391		100	9.8	121.0	<0.002	0.01	0.64	13.0	<1	3.6	27.0	1.13	<0.05	18.40	0.417	0.58
TRD000392		90	10.9	125.5	<0.002	0.10	0.56	12.8	1	3.6	29.8	1.14	<0.05	18.50	0.421	0.62
TRD000393		100	10.1	144.5	<0.002	0.10	0.71	12.5	1	3.7	33.4	1.22	0.06	18.55	0.425	0.70
TRD000394		100	10.1	142.0	<0.002	0.08	0.65	11.8	1	3.2	33.0	1.11	0.08	18.05	0.400	0.72
TRD000395		130	11.0	154.5	0.002	0.13	0.61	13.4	1	4.2	37.0	1.35	0.08	16.45	0.428	0.94
TRD000396		140	10.5	204	<0.002	0.06	0.51	14.6	1	4.7	37.8	1.46	<0.05	20.9	0.452	1.07
TRD000397		320	15.4	175.0	<0.002	0.03	0.50	12.5	<1	3.4	61.9	1.24	<0.05	18.85	0.404	1.00
TRD000398		270	10.4	116.5	<0.002	0.03	0.45	8.6	<1	2.2	58.1	0.86	<0.05	13.25	0.312	0.70
TRD000399		320	10.7	102.0	<0.002	0.02	0.46	7.1	<1	1.8	71.7	0.78	<0.05	11.95	0.278	0.65
TRD000400		400	5.5	33.8	<0.002	0.04	0.14	38.7	<1	1.0	142.5	0.49	<0.05	3.67	0.398	0.21



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000361	3.1	103	10.3	9.6	53	112.0	
TRD000362	3.8	115	9.4	21.0	35	141.0	
TRD000363	4.3	125	7.3	11.6	45	137.5	
TRD000364	4.3	121	6.1	10.7	46	126.0	
TRD000365	4.7	115	5.9	10.6	46	121.5	
TRD000366	4.6	110	8.7	12.1	43	132.0	
TRD000367	4.4	110	9.0	12.9	40	132.5	
TRD000368	4.7	108	10.1	12.5	41	135.5	
TRD000369	4.3	104	7.0	10.9	45	132.5	
TRD000370	3.5	97	6.7	10.0	59	114.0	
TRD000371	3.7	95	5.5	10.2	57	109.5	
TRD000372	3.9	92	6.2	10.3	43	109.0	
TRD000373	3.7	95	8.5	11.0	49	103.5	
TRD000374	3.6	93	12.3	11.3	53	110.5	
TRD000375	3.6	94	11.2	12.3	58	114.0	
TRD000376	1.0	221	0.5	22.0	83	102.0	
TRD000377	3.2	91	6.8	8.7	67	114.0	
TRD000378	3.2	88	6.7	9.9	61	112.0	
TRD000379	3.2	88	5.8	12.9	79	119.5	
TRD000380	3.4	96	5.4	13.1	94	119.0	
TRD000381	3.3	96	6.2	12.8	78	117.5	
TRD000382	3.7	101	7.1	11.9	76	121.5	
TRD000383	4.1	89	6.1	14.9	72	112.0	
TRD000384	2.8	88	4.9	16.4	95	108.0	
TRD000385	2.6	88	5.7	19.0	100	110.5	
TRD000386	2.9	90	5.2	28.8	113	109.0	
TRD000387	2.4	90	3.8	33.1	131	103.0	
TRD000388	2.6	88	4.3	30.2	116	104.5	
TRD000389	2.6	87	4.3	24.4	104	107.0	
TRD000390	3.3	95	4.9	17.1	75	120.5	
TRD000391	3.8	95	4.0	15.5	91	119.5	
TRD000392	4.1	99	3.9	28.5	138	124.5	
TRD000393	4.2	103	3.8	31.9	130	129.5	
TRD000394	3.8	100	3.6	25.9	120	129.0	
TRD000395	4.1	112	4.3	36.0	126	122.5	
TRD000396	3.3	106	5.0	31.9	103	131.5	
TRD000397	3.0	86	4.0	33.9	92	122.5	
TRD000398	2.3	63	3.2	22.8	80	98.4	
TRD000399	2.2	53	3.1	19.4	70	88.1	
TRD000400	0.9	216	0.4	22.7	83	97.6	



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**CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000401		1.59		0.007	0.02	5.65	5.6	440	2.15	0.18	0.02	0.02	70.5	8.5	51	7.46
TRD000402		1.49		<0.005	0.02	5.75	4.1	550	2.23	0.10	0.02	<0.02	64.8	9.9	53	13.10
TRD000403		2.04		0.060	0.03	4.39	8.2	290	2.26	0.11	0.03	<0.02	59.2	8.0	44	11.65
TRD000404		1.77		0.073	0.01	3.36	10.2	170	1.78	0.09	0.01	0.02	53.1	6.8	34	7.95
TRD000405		1.66		0.011	0.01	3.04	9.9	130	1.72	0.10	0.01	0.02	52.8	6.7	36	7.92
TRD000406		3.81		0.020	0.02	6.47	13.5	450	2.38	0.26	0.01	0.03	67.7	9.2	58	8.21
TRD000407		2.10		<0.005	0.02	6.02	4.8	480	1.97	0.15	0.01	<0.02	75.0	7.6	54	8.45
TRD000408		1.87		<0.005	0.02	5.43	5.7	420	1.84	0.19	0.01	<0.02	68.6	6.4	49	7.41
TRD000409		1.86		<0.005	0.02	6.35	10.4	470	2.28	0.33	0.01	<0.02	78.2	7.0	56	8.95
TRD000410		1.01		<0.005	0.02	7.88	12.0	580	2.71	0.86	0.01	<0.02	80.8	9.9	63	8.52
TRD000411		1.13		<0.005	0.02	7.71	3.0	600	2.39	0.29	0.01	<0.02	89.1	9.9	65	9.30
TRD000412		1.19		<0.005	0.03	7.85	2.1	640	2.36	0.30	0.01	0.02	96.9	11.2	67	8.92
TRD000413		2.27		<0.005	0.03	7.24	1.2	690	2.02	0.20	0.01	0.04	52.9	14.2	68	8.13
TRD000414		1.87		0.012	0.03	5.21	3.8	290	2.48	0.15	0.03	0.02	76.5	7.5	54	6.96
TRD000415		1.43		0.006	0.02	8.29	3.0	670	2.31	0.12	0.03	<0.02	89.9	11.9	70	9.79
TRD000416		1.37		<0.005	0.06	7.73	3.6	640	2.06	0.29	0.06	0.02	89.7	16.4	69	9.19
TRD000417		2.56		0.005	0.02	5.31	3.2	380	1.60	0.14	0.06	0.02	67.1	8.9	52	6.38
TRD000418		1.89		<0.005	0.02	5.08	6.3	410	1.53	0.11	0.05	0.02	68.1	7.0	52	8.36
TRD000419		2.42		<0.005	0.02	4.79	6.8	380	1.34	0.11	0.06	<0.02	68.3	6.0	52	7.75
TRD000420		3.12		0.007	0.02	4.41	8.4	270	1.42	0.13	0.03	0.02	61.8	5.1	53	6.94
TRD000421		2.46		0.010	0.02	4.75	9.6	340	1.66	0.13	0.03	0.02	65.1	5.8	51	8.20
TRD000422		2.06		0.010	0.02	8.06	7.8	750	2.34	0.32	0.05	0.13	90.5	15.6	78	11.35
TRD000423		1.43		0.005	0.03	7.34	3.2	650	2.10	0.35	0.07	0.23	79.4	15.4	70	8.31
TRD000424		1.61		<0.005	0.03	7.18	4.6	590	2.22	0.43	0.10	0.24	88.4	13.4	64	6.12
TRD000425		1.48		<0.005	0.04	6.99	6.0	590	2.46	0.45	0.10	0.19	86.1	13.7	64	5.81
TRD000426		1.36		0.008	0.05	8.28	1.1	210	0.73	0.04	6.81	0.09	28.5	39.0	4	1.56
TRD000427		0.07		3.05	0.18	6.82	599	640	2.24	0.35	0.73	0.06	77.3	12.5	121	8.23
TRD000428		0.07		>10.0	1.34	6.11	3710	530	2.31	0.68	0.82	0.05	69.7	11.8	102	8.54
TRD000429		0.07		1.030	0.28	6.60	49.2	130	0.38	0.04	6.85	0.53	11.95	40.4	117	0.74
TRD000430		0.19		<0.005	<0.01	0.15	2.5	10	0.07	0.01	0.02	<0.02	3.08	1.1	16	0.14
TRD000431		1.15		<0.005	0.04	7.04	5.6	590	2.41	0.47	0.10	0.06	92.5	14.6	61	6.48
TRD000432		1.00		<0.005	0.03	7.60	3.4	680	2.44	0.36	0.09	0.06	94.8	14.9	64	9.63
TRD000433		2.81		<0.005	0.03	6.68	5.2	590	2.38	0.29	0.07	0.04	89.9	13.0	61	8.91
TRD000434		3.72		0.008	0.02	4.30	11.0	300	1.98	0.16	0.05	0.05	71.5	6.1	46	7.72
TRD000435		2.08		0.047	0.02	4.34	10.2	290	1.83	0.15	0.05	0.02	65.8	5.8	49	6.81
TRD000436		1.93		0.087	0.01	3.38	6.8	230	1.18	0.09	0.06	<0.02	58.5	3.9	46	7.31
TRD000437		3.07		0.051	0.02	5.46	9.2	430	1.88	0.09	0.08	<0.02	79.1	8.6	57	8.27
TRD000438		2.01		0.215	0.01	7.81	9.5	710	2.44	0.13	0.10	<0.02	97.9	13.0	74	9.57
TRD000439		3.50		0.005	0.02	6.96	3.6	640	2.40	0.22	0.10	0.03	85.4	13.9	63	8.29
TRD000440		2.91	98.8	0.005	0.03	7.39	4.1	730	2.29	0.16	0.08	0.04	92.8	13.4	66	9.43



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Plus Appendix Pages  
Finalized Date: 2-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000401		22.5	2.85	14.45	0.20	3.0	0.035	1.89	33.8	24.4	0.68	555	0.82	0.19	11.3	22.5
TRD000402		17.1	3.01	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
TRD000403		14.9	2.68	10.25	0.14	2.4	0.034	1.24	28.0	25.5	0.57	712	1.10	0.16	8.6	24.1
TRD000404		16.4	2.35	8.15	0.13	2.0	0.024	0.86	26.4	27.7	0.43	438	1.02	0.10	6.6	25.2
TRD000405		16.5	2.25	7.38	0.13	1.8	0.022	0.75	25.4	25.2	0.40	394	1.21	0.09	6.1	24.3
TRD000406		27.7	3.06	15.85	0.18	2.9	0.048	2.09	28.9	21.3	0.52	506	0.84	0.14	12.4	19.8
TRD000407		19.1	3.09	14.95	0.19	3.0	0.046	2.24	33.9	20.9	0.74	548	0.80	0.24	11.9	21.0
TRD000408		18.8	2.90	13.05	0.19	2.6	0.031	2.02	31.9	20.5	0.74	507	0.83	0.27	11.0	19.2
TRD000409		24.8	3.12	15.75	0.18	3.0	0.048	2.31	37.2	23.8	0.70	506	0.65	0.20	12.6	20.7
TRD000410		40.3	3.38	19.70	0.22	3.3	0.056	2.99	38.1	24.2	0.75	466	0.51	0.14	14.4	23.6
TRD000411		28.0	3.74	18.55	0.21	3.0	0.079	3.16	42.4	26.6	1.05	527	0.28	0.15	13.8	32.3
TRD000412		32.9	3.65	19.00	0.21	3.9	0.068	3.24	46.5	26.7	1.15	541	0.42	0.18	14.4	30.0
TRD000413		41.1	3.40	19.90	0.24	3.4	0.074	3.33	22.1	27.4	1.15	624	0.53	0.19	15.0	31.9
TRD000414		21.2	3.55	13.15	0.20	3.1	0.047	1.55	36.0	25.1	0.91	631	1.22	0.21	10.9	24.2
TRD000415		18.6	3.70	19.70	0.21	3.3	0.078	3.36	42.3	28.3	1.26	710	0.67	0.19	15.0	30.9
TRD000416		33.4	3.78	19.05	0.25	3.1	0.083	3.14	41.9	29.5	1.28	809	0.68	0.22	14.8	34.9
TRD000417		20.3	3.09	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
TRD000418		15.0	3.02	12.20	0.16	2.7	0.036	1.87	31.5	17.1	0.75	551	1.11	0.30	10.2	21.6
TRD000419		14.0	2.64	11.60	0.19	3.1	0.028	1.73	32.2	16.4	0.67	476	1.40	0.31	10.4	19.8
TRD000420		13.9	2.44	10.70	0.17	2.4	0.024	1.33	28.9	16.9	0.53	368	1.84	0.50	8.9	17.4
TRD000421		15.0	2.98	11.60	0.18	2.4	0.026	1.61	30.3	17.6	0.62	405	1.50	0.38	9.5	18.8
TRD000422		35.7	3.87	21.6	0.24	3.6	0.079	3.53	41.4	30.8	1.11	466	1.24	0.27	16.6	38.7
TRD000423		47.1	3.46	19.95	0.23	3.6	0.085	3.14	36.8	32.6	1.22	482	2.14	0.24	15.8	42.5
TRD000424		36.0	2.95	17.90	0.24	3.5	0.069	2.99	42.9	28.3	1.16	385	2.72	0.21	15.0	37.6
TRD000425		36.5	2.90	18.55	0.25	3.7	0.057	3.07	40.2	30.1	1.19	356	2.79	0.19	15.4	39.0
TRD000426		138.0	7.36	16.50	0.25	2.7	0.059	0.77	12.8	11.2	2.56	1250	0.40	1.49	5.0	42.2
TRD000427		28.4	3.64	17.20	0.21	3.6	0.070	2.53	35.3	38.2	1.41	312	0.62	0.65	13.0	58.0
TRD000428		52.9	3.30	15.95	0.18	3.0	0.057	2.45	32.2	37.1	1.22	334	1.24	0.47	10.6	44.5
TRD000429		159.5	7.33	14.80	0.19	1.5	0.064	0.34	4.6	11.0	3.58	1235	0.79	1.62	3.3	85.5
TRD000430		8.2	2.20	0.65	0.06	0.3	<0.005	0.03	1.4	13.5	0.01	224	1.50	0.01	1.8	6.1
TRD000431		45.2	3.00	17.75	0.23	3.7	0.082	2.99	42.2	27.9	1.20	317	2.68	0.17	14.8	39.5
TRD000432		38.6	3.25	19.70	0.21	3.5	0.082	3.41	42.6	29.8	1.28	441	1.24	0.18	14.8	35.9
TRD000433		31.4	3.23	17.40	0.22	3.4	0.064	2.76	42.1	27.6	1.13	499	1.30	0.24	13.4	33.1
TRD000434		15.8	2.94	11.55	0.20	2.9	0.026	1.46	32.1	19.6	0.63	318	1.64	0.34	9.5	22.0
TRD000435		16.2	2.95	11.10	0.16	2.9	0.024	1.46	29.2	17.5	0.58	322	1.63	0.32	9.0	20.5
TRD000436		8.5	2.30	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
TRD000437		15.4	3.46	13.85	0.17	3.2	0.045	1.97	35.7	22.5	0.88	419	1.34	0.38	11.2	26.0
TRD000438		16.0	3.59	20.2	0.24	3.7	0.076	3.23	43.6	27.0	1.10	474	1.09	0.27	15.6	31.9
TRD000439		28.9	3.22	17.45	0.21	3.3	0.058	2.98	39.6	25.5	1.09	394	0.94	0.26	13.2	39.6
TRD000440		31.8	3.37	19.00	0.23	3.3	0.072	3.14	42.5	27.1	1.13	431	0.96	0.24	14.0	35.8



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Plus Appendix Pages  
Finalized Date: 2-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000401		240	9.7	117.5	<0.002	0.03	0.47	9.3	1	2.8	51.7	0.91	<0.05	14.15	0.319	0.63
TRD000402		400	9.1	169.5	<0.002	0.01	0.62	8.5	<1	3.1	51.7	1.00	<0.05	13.95	0.339	1.02
TRD000403		530	8.5	127.0	<0.002	0.01	0.42	6.1	<1	1.7	67.6	0.70	<0.05	10.25	0.267	0.76
TRD000404		510	6.6	89.4	<0.002	0.01	0.37	4.5	<1	1.2	48.5	0.53	<0.05	8.29	0.205	0.47
TRD000405		500	7.1	80.3	<0.002	0.01	0.40	3.9	<1	1.0	49.4	0.48	<0.05	7.45	0.195	0.42
TRD000406		290	11.1	130.5	<0.002	0.02	0.60	10.8	<1	3.0	47.0	0.99	<0.05	15.55	0.348	0.71
TRD000407		350	7.5	133.0	<0.002	0.01	0.56	9.4	1	3.1	38.7	0.96	<0.05	14.75	0.346	0.73
TRD000408		440	6.4	122.0	<0.002	0.01	0.45	8.1	<1	2.7	32.9	0.86	<0.05	12.95	0.319	0.58
TRD000409		650	8.5	147.0	<0.002	0.01	0.65	9.8	1	3.3	37.3	1.04	<0.05	14.75	0.341	0.67
TRD000410		690	11.8	175.5	<0.002	0.01	0.77	12.6	1	4.5	35.8	1.40	0.07	17.50	0.380	0.87
TRD000411		310	7.7	169.5	<0.002	0.01	0.38	12.2	<1	3.8	35.2	1.16	<0.05	17.10	0.403	0.78
TRD000412		200	7.6	175.0	<0.002	0.01	0.36	12.6	<1	3.9	40.4	1.15	0.05	17.70	0.415	0.82
TRD000413		140	9.1	136.5	<0.002	0.02	0.32	12.2	<1	4.4	40.1	1.24	<0.05	11.50	0.439	0.88
TRD000414		520	11.5	105.5	<0.002	0.01	0.36	8.3	<1	2.3	53.0	0.85	<0.05	13.10	0.314	0.50
TRD000415		320	9.7	183.0	<0.002	0.01	0.35	12.8	<1	5.2	38.2	1.32	<0.05	18.00	0.427	0.95
TRD000416		370	13.2	181.5	<0.002	0.02	0.37	12.6	<1	4.3	36.2	1.20	0.06	17.75	0.413	0.87
TRD000417		490	7.0	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
TRD000418		670	6.5	118.0	<0.002	0.01	0.37	7.6	<1	2.7	31.6	0.81	<0.05	12.40	0.313	0.56
TRD000419		610	6.5	124.5	<0.002	0.01	0.40	7.1	1	2.3	34.7	0.81	<0.05	12.40	0.308	0.59
TRD000420		440	6.6	121.0	<0.002	0.01	0.46	6.6	<1	1.9	40.6	0.71	<0.05	11.25	0.259	0.55
TRD000421		610	6.4	119.5	<0.002	0.02	0.52	7.2	<1	2.2	36.9	0.73	<0.05	11.30	0.279	0.58
TRD000422		540	10.3	205	<0.002	0.42	2.17	14.0	1	5.0	35.8	1.36	<0.05	18.65	0.463	1.24
TRD000423		410	9.6	169.5	0.002	0.43	2.07	12.8	2	4.0	31.2	1.34	<0.05	17.10	0.435	1.03
TRD000424		490	7.7	155.5	0.004	0.60	1.54	12.0	1	3.8	30.2	1.22	<0.05	17.50	0.417	0.83
TRD000425		520	8.1	149.5	0.005	0.60	0.92	12.2	1	3.8	30.4	1.30	<0.05	17.45	0.433	0.77
TRD000426		410	5.5	35.9	<0.002	0.04	0.14	39.3	<1	1.1	149.0	0.62	<0.05	3.71	0.404	0.22
TRD000427		530	18.6	152.0	<0.002	0.13	551	12.7	<1	3.3	94.5	1.20	<0.05	13.80	0.437	0.79
TRD000428		490	31.5	152.0	<0.002	0.74	3390	11.0	<1	3.1	97.8	0.92	0.06	12.45	0.352	0.78
TRD000429		380	20.4	11.8	<0.002	0.30	6.52	38.3	1	0.9	180.5	0.45	0.11	0.81	0.557	0.18
TRD000430		20	0.8	1.7	<0.002	0.01	2.45	0.3	<1	0.6	1.0	0.09	<0.05	0.85	0.033	<0.02
TRD000431		490	7.9	153.0	0.004	0.63	2.00	11.6	1	3.8	28.4	1.28	0.05	17.75	0.414	0.71
TRD000432		410	8.1	195.5	0.002	0.33	0.79	12.8	1	3.7	29.8	1.30	0.06	18.05	0.409	0.98
TRD000433		450	8.5	168.0	0.002	0.21	0.86	11.2	<1	3.2	30.9	1.18	<0.05	16.50	0.378	0.81
TRD000434		620	8.1	119.0	<0.002	0.10	0.69	7.0	<1	1.9	43.6	0.81	<0.05	12.25	0.271	0.60
TRD000435		560	6.8	113.0	<0.002	0.10	0.76	6.7	<1	1.8	44.4	0.74	<0.05	11.60	0.268	0.56
TRD000436		560	5.8	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
TRD000437		650	6.9	131.5	<0.002	0.02	1.01	8.4	<1	2.6	39.1	0.96	<0.05	13.95	0.329	0.59
TRD000438		600	8.3	188.5	<0.002	0.02	0.74	13.0	<1	3.9	36.2	1.32	<0.05	19.15	0.434	0.87
TRD000439		540	7.3	159.5	<0.002	0.09	0.68	11.2	<1	3.6	28.0	1.13	<0.05	16.00	0.387	0.82
TRD000440		470	8.0	178.0	<0.002	0.06	0.67	12.4	1	3.8	30.3	1.18	<0.05	16.90	0.402	0.83



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Project: Panama Project

**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
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000401	2.4	63	3.4	20.4	73	96.3	
TRD000402	2.4	63	3.6	23.6	70	107.5	
TRD000403	1.8	46	3.5	18.0	63	82.1	
TRD000404	1.6	34	3.5	14.0	59	66.6	
TRD000405	1.4	30	4.6	13.6	57	61.1	
TRD000406	2.7	71	5.0	19.2	72	101.0	
TRD000407	2.6	68	3.7	24.2	71	98.4	
TRD000408	2.2	61	2.9	22.1	76	90.2	
TRD000409	2.8	71	4.1	22.7	86	99.5	
TRD000410	3.5	94	5.9	24.5	90	109.5	
TRD000411	2.4	88	4.4	22.3	103	102.0	
TRD000412	2.5	89	4.0	21.6	96	110.0	
TRD000413	2.7	92	4.1	16.4	94	115.5	
TRD000414	2.4	59	3.6	22.0	62	110.0	
TRD000415	2.8	91	4.6	25.4	86	113.0	
TRD000416	2.9	85	3.9	25.9	96	110.5	
TRD000417	2.1	58	2.9	20.9	67	90.2	
TRD000418	2.1	56	3.2	25.6	67	90.0	
TRD000419	2.1	52	3.7	20.2	59	101.0	
TRD000420	1.9	49	13.5	17.4	57	81.4	
TRD000421	2.0	53	8.4	18.6	63	82.4	
TRD000422	3.3	112	12.6	29.0	112	129.0	
TRD000423	3.8	152	12.0	27.1	108	123.0	
TRD000424	4.2	130	8.1	31.3	80	121.5	
TRD000425	4.6	131	8.0	28.0	78	126.0	
TRD000426	0.9	223	0.4	24.4	85	100.5	
TRD000427	2.4	99	2.7	16.4	95	119.5	
TRD000428	2.3	79	7.5	11.8	90	100.0	
TRD000429	0.2	250	25.6	20.1	129	48.1	
TRD000430	0.2	4	0.3	1.0	11	9.2	
TRD000431	4.3	110	8.1	24.6	73	122.5	
TRD000432	3.3	98	6.4	25.3	76	116.5	
TRD000433	2.9	84	6.1	25.1	76	109.5	
TRD000434	2.3	54	11.0	19.1	64	93.2	
TRD000435	2.1	51	12.0	18.4	59	93.3	
TRD000436	1.8	36	5.5	16.8	51	92.5	
TRD000437	2.3	63	6.7	23.7	59	104.0	
TRD000438	3.2	95	6.4	26.4	73	128.0	
TRD000439	2.6	80	4.6	23.2	92	108.0	
TRD000440	2.7	85	4.5	24.3	83	109.0	



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt.	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000441		1.72		0.009	0.02	6.26	7.5	540	2.27	0.15	0.06	<0.02	81.4	9.7	60	11.30
TRD000442		1.85		<0.005	0.03	5.09	7.2	480	1.82	0.13	0.04	0.03	72.4	8.2	52	8.25
TRD000443		3.57		<0.005	0.02	4.22	6.1	390	1.52	0.07	0.02	0.03	70.7	9.5	50	7.62
TRD000444		3.62		<0.005	0.04	3.40	10.2	270	1.56	0.05	0.02	0.03	61.8	29.0	41	5.22
TRD000445		4.00		0.008	0.01	3.51	9.1	280	1.25	0.07	0.04	0.02	61.9	10.4	53	3.69
TRD000446		3.68		0.007	0.01	3.11	6.1	250	1.04	0.05	0.09	<0.02	58.8	4.6	51	3.44
TRD000447		4.03		0.026	0.02	3.26	6.4	260	1.08	0.07	0.10	0.02	60.9	5.4	47	3.62
TRD000448		2.94		0.036	0.01	3.10	5.8	230	1.06	0.05	0.08	<0.02	57.6	6.2	44	5.01
TRD000449		3.27		<0.005	0.02	3.06	5.0	230	1.02	0.07	0.08	0.02	60.6	6.2	43	4.03
TRD000450		3.82		0.076	0.02	2.94	5.8	220	0.88	0.06	0.12	<0.02	57.3	5.4	44	3.82
TRD000451		3.71		0.498	0.02	3.67	10.0	300	1.20	0.07	0.15	<0.02	61.1	8.0	52	3.96
TRD000452		2.88		0.021	0.02	7.44	3.8	720	3.05	0.13	0.10	<0.02	92.0	11.4	68	5.76
TRD000453		2.05		<0.005	0.01	9.17	1.9	880	3.34	0.07	0.08	<0.02	108.0	15.4	76	7.36
TRD000454		2.09		0.006	0.01	5.76	3.4	480	2.15	0.06	0.09	<0.02	79.5	9.2	58	7.69
TRD000455		1.51		<0.005	0.02	4.82	4.2	370	1.96	0.07	0.08	<0.02	75.3	8.1	51	7.85
TRD000456		0.92		0.005	0.05	7.78	1.2	210	0.81	0.04	6.58	0.08	29.2	39.4	5	1.49
TRD000457		1.62		0.019	0.02	3.54	5.3	260	1.28	0.05	0.08	0.02	63.7	8.7	41	4.76
TRD000458		2.12		<0.005	0.01	3.70	6.7	310	1.24	0.03	0.13	<0.02	66.7	9.8	54	5.76
TRD000459		4.32		0.007	0.01	3.40	6.3	260	1.15	0.04	0.15	0.02	61.8	7.4	52	4.61
TRD000460		3.54		<0.005	0.01	3.73	5.9	310	1.24	0.05	0.15	0.02	65.5	10.7	60	4.59
TRD000461		4.12		<0.005	0.01	3.51	6.7	290	1.22	0.07	0.12	0.03	62.6	9.1	49	4.07
TRD000462		3.72		0.006	0.02	3.57	6.4	270	1.22	0.07	0.15	<0.02	60.8	5.0	43	5.08
TRD000463		4.01		0.029	0.01	3.87	5.3	350	1.40	0.13	0.17	0.02	62.3	5.3	47	6.30
TRD000464		3.90		0.009	0.01	4.11	6.5	400	1.35	0.09	0.16	0.02	71.1	6.4	55	6.68
TRD000465		3.81		0.009	0.01	3.25	5.4	260	1.04	0.06	0.17	0.02	62.8	5.7	59	4.33
TRD000466		4.36		<0.005	0.01	3.35	5.5	280	1.23	0.05	0.15	<0.02	63.0	6.0	53	5.66
TRD000467		5.31		0.012	0.01	3.46	5.1	280	1.22	0.04	0.17	<0.02	61.4	6.1	51	6.49
TRD000468		4.69		0.097	0.01	4.61	8.6	480	1.72	0.09	0.16	<0.02	68.7	7.8	55	8.02
TRD000469		3.64		0.014	0.02	3.59	4.5	330	1.19	0.06	0.17	0.03	63.6	7.1	51	5.11
TRD000470		3.53		<0.005	0.01	3.16	4.2	260	1.06	0.08	0.17	<0.02	58.0	6.6	53	3.49
TRD000471		2.25		0.006	0.02	6.36	2.1	720	2.21	0.12	0.15	<0.02	76.2	11.3	67	8.69
TRD000472		4.37		0.012	0.01	4.43	3.9	390	1.36	0.07	0.15	<0.02	67.4	8.2	58	5.39
TRD000473		2.82		2.15	0.02	7.06	4.1	700	2.02	0.16	0.20	0.03	92.9	14.1	76	15.75
TRD000474		3.55		0.170	0.01	3.73	4.6	300	1.20	0.08	0.16	0.02	62.4	6.5	61	6.56
TRD000475		2.45		0.170	0.01	3.60	6.0	310	1.12	0.05	0.17	<0.02	55.7	6.4	47	4.50
TRD000476		2.48		0.009	0.01	4.90	7.8	480	1.52	0.12	0.16	0.02	71.2	9.5	64	4.43
TRD000477		1.78		0.012	<0.01	8.53	2.3	870	3.04	0.09	0.13	<0.02	97.1	15.8	75	17.50
TRD000478		1.94		0.034	0.01	7.98	31.6	830	2.62	0.15	0.14	<0.02	90.5	14.4	69	11.95
TRD000479		2.32		0.008	0.01	7.46	1.8	720	2.54	0.09	0.11	<0.02	89.0	12.9	65	8.12
TRD000480		3.24	97.3	0.016	0.01	4.43	8.6	390	1.58	0.09	0.17	0.02	66.4	8.5	55	5.66



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000441		22.6	3.84	15.95	0.20	3.1	0.049	2.38	37.3	23.8	0.90	394	0.95	0.28	12.6	28.3
TRD000442		18.8	3.12	13.05	0.23	2.8	0.045	1.89	31.6	19.7	0.67	732	0.96	0.26	10.4	22.2
TRD000443		10.4	2.50	10.50	0.20	3.3	0.036	1.53	32.5	19.8	0.58	727	1.48	0.20	9.7	25.4
TRD000444		9.1	2.09	8.74	0.16	2.8	0.019	1.03	28.5	23.8	0.35	1275	1.53	0.08	7.9	24.3
TRD000445		9.3	1.88	8.11	0.14	2.9	0.027	1.14	27.7	18.2	0.39	425	1.83	0.31	8.4	18.2
TRD000446		8.0	1.55	7.57	0.13	3.1	0.019	1.02	26.8	11.5	0.36	213	1.88	0.39	7.9	13.0
TRD000447		7.9	1.56	7.98	0.17	3.2	0.024	1.09	27.7	11.6	0.40	224	1.62	0.42	8.4	14.2
TRD000448		7.1	1.63	7.50	0.14	2.9	0.019	0.99	26.3	12.1	0.42	309	1.54	0.33	8.1	17.2
TRD000449		7.2	1.54	7.46	0.14	2.8	0.022	0.99	27.0	13.2	0.43	241	1.54	0.38	7.7	15.0
TRD000450		7.4	1.40	7.21	0.15	3.1	0.014	0.95	25.4	11.6	0.41	225	1.70	0.46	7.6	13.8
TRD000451		10.8	1.79	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
TRD000452		29.1	2.85	19.40	0.22	3.2	0.049	3.04	42.5	29.9	0.99	197	0.78	0.19	14.2	30.4
TRD000453		18.8	3.45	23.6	0.23	3.7	0.110	3.84	49.6	35.7	1.24	252	0.43	0.17	16.9	38.2
TRD000454		10.5	3.04	14.20	0.20	3.3	0.046	2.21	36.1	23.9	0.92	286	0.81	0.33	11.6	27.2
TRD000455		10.8	3.05	12.25	0.18	3.3	0.040	1.77	34.0	22.4	0.83	296	0.77	0.36	10.7	27.6
TRD000456		132.0	7.19	16.55	0.23	2.9	0.051	0.75	12.0	11.2	2.41	1210	0.51	1.43	5.3	44.1
TRD000457		6.9	1.85	8.58	0.17	2.9	0.027	1.17	28.4	16.2	0.45	320	1.33	0.40	8.2	21.8
TRD000458		5.9	2.01	8.88	0.15	3.0	0.028	1.24	29.9	15.5	0.51	363	2.42	0.46	8.4	21.5
TRD000459		7.0	1.85	8.16	0.15	2.7	0.021	1.13	27.3	14.0	0.47	257	2.71	0.43	8.0	19.0
TRD000460		6.9	1.94	9.08	0.17	2.8	0.033	1.32	29.8	13.6	0.50	308	3.20	0.46	8.6	25.5
TRD000461		7.5	1.84	9.20	0.14	2.7	0.025	1.20	29.0	15.2	0.47	302	2.01	0.44	7.9	17.6
TRD000462		7.0	1.75	9.23	0.14	2.3	0.020	1.25	28.2	15.0	0.52	248	1.32	0.44	8.2	17.5
TRD000463		11.0	1.98	10.20	0.20	2.2	0.026	1.50	29.4	14.8	0.59	241	1.66	0.45	8.1	15.1
TRD000464		10.6	2.07	10.75	0.18	3.6	0.034	1.62	32.5	14.8	0.62	276	1.62	0.42	9.6	16.8
TRD000465		7.9	1.61	8.53	0.18	3.4	0.022	1.14	28.6	12.2	0.45	200	2.85	0.51	8.3	15.2
TRD000466		7.0	1.72	8.97	0.19	2.8	0.023	1.28	29.4	12.2	0.47	188	1.88	0.51	8.3	16.0
TRD000467		7.2	1.85	8.72	0.19	2.7	0.020	1.29	28.7	13.6	0.53	252	1.90	0.51	8.2	17.3
TRD000468		9.1	2.18	12.20	0.19	2.8	0.037	1.83	32.0	17.8	0.68	228	1.84	0.55	10.3	21.9
TRD000469		8.9	1.84	9.62	0.19	2.7	0.029	1.35	29.2	14.0	0.56	227	1.72	0.47	8.4	17.0
TRD000470		9.6	1.76	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
TRD000471		11.5	3.09	17.20	0.20	3.3	0.049	2.81	35.3	23.9	1.08	346	1.38	0.32	13.0	26.9
TRD000472		8.4	2.43	11.40	0.20	3.0	0.018	1.57	31.4	19.8	0.78	281	1.83	0.55	9.8	19.2
TRD000473		5.7	3.44	18.95	0.23	3.8	0.051	2.92	43.9	27.0	1.21	359	1.80	0.57	14.8	31.1
TRD000474		6.5	2.10	9.99	0.20	3.1	0.027	1.28	28.9	16.0	0.60	238	2.46	0.62	8.7	16.8
TRD000475		7.1	1.93	9.48	0.18	2.2	0.033	1.25	26.7	14.1	0.55	209	1.44	0.59	8.2	15.3
TRD000476		31.5	2.57	13.30	0.19	2.7	0.038	1.88	33.0	20.5	0.76	201	1.87	0.50	10.4	21.6
TRD000477		6.1	4.06	23.4	0.26	3.8	0.083	3.91	46.4	32.9	1.41	364	0.68	0.35	17.0	37.1
TRD000478		7.3	3.81	21.5	0.27	3.3	0.070	3.51	43.3	32.9	1.26	342	0.80	0.42	15.1	33.5
TRD000479		5.4	3.66	20.7	0.27	3.2	0.071	3.06	42.4	31.5	1.18	356	0.57	0.25	14.0	31.3
TRD000480		10.8	2.04	11.75	0.20	2.7	0.031	1.72	30.7	17.8	0.53	483	1.14	0.39	9.3	17.8



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000441		610	8.1	166.0	<0.002	0.04	0.64	10.2	<1	3.1	38.3	1.00	<0.05	15.60	0.346	0.77
TRD000442		580	7.0	138.0	<0.002	0.02	0.54	8.1	<1	2.5	37.9	0.84	<0.05	12.85	0.300	0.61
TRD000443		520	6.2	112.5	<0.002	0.01	0.49	6.5	<1	2.1	25.5	0.76	<0.05	11.60	0.283	0.61
TRD000444		520	5.7	82.6	<0.002	0.01	0.60	5.2	<1	1.6	18.9	0.63	<0.05	10.00	0.235	1.13
TRD000445		540	6.2	81.2	<0.002	0.01	0.61	4.9	<1	1.8	25.4	0.62	<0.05	10.20	0.254	0.49
TRD000446		640	5.0	65.6	<0.002	0.01	0.51	4.5	<1	1.7	27.5	0.65	<0.05	10.00	0.241	0.31
TRD000447		650	5.3	67.9	<0.002	0.02	0.61	4.8	1	1.7	25.3	0.67	<0.05	10.10	0.255	0.32
TRD000448		530	5.8	80.4	<0.002	0.01	0.51	4.5	<1	1.5	27.9	0.64	<0.05	9.58	0.252	0.40
TRD000449		550	6.4	65.8	<0.002	0.01	0.43	4.5	<1	1.7	21.8	0.61	<0.05	9.57	0.234	0.31
TRD000450		670	5.8	63.1	<0.002	0.01	0.40	4.3	<1	1.5	29.2	0.60	<0.05	9.06	0.237	0.33
TRD000451		720	5.8	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
TRD000452		570	7.4	158.0	<0.002	0.02	0.42	12.3	<1	3.7	31.5	1.17	<0.05	17.25	0.394	0.59
TRD000453		490	8.1	195.5	<0.002	0.02	0.37	15.4	<1	4.7	34.9	1.38	<0.05	20.6	0.460	0.78
TRD000454		650	7.8	136.0	<0.002	0.03	0.37	9.1	<1	2.7	32.2	0.94	<0.05	14.20	0.342	0.66
TRD000455		700	7.9	124.0	<0.002	0.03	0.42	7.5	<1	2.1	35.6	0.84	<0.05	12.95	0.309	0.58
TRD000456		400	5.8	30.6	<0.002	0.04	0.21	37.4	1	1.1	149.5	0.52	<0.05	3.66	0.400	0.22
TRD000457		530	6.1	91.6	<0.002	0.01	0.35	5.0	<1	1.5	30.7	0.65	<0.05	10.05	0.246	0.46
TRD000458		780	6.9	96.7	<0.002	0.01	0.40	5.2	<1	1.8	39.4	0.71	<0.05	10.95	0.267	0.49
TRD000459		740	6.8	84.0	<0.002	0.01	0.37	4.8	<1	1.6	31.9	0.63	<0.05	9.78	0.239	0.41
TRD000460		860	5.8	88.2	<0.002	0.01	0.43	5.3	<1	1.9	30.3	0.66	<0.05	10.55	0.258	0.42
TRD000461		760	6.1	71.2	<0.002	0.02	0.44	5.3	<1	1.7	26.8	0.66	<0.05	10.20	0.246	0.36
TRD000462		820	6.9	85.1	<0.002	0.01	0.33	5.2	<1	1.9	39.5	0.64	<0.05	9.70	0.241	0.47
TRD000463		910	7.5	95.0	<0.002	0.02	0.51	5.8	<1	2.2	30.3	0.64	<0.05	9.89	0.246	0.52
TRD000464		860	6.6	101.5	<0.002	0.01	0.46	6.3	<1	2.2	36.2	0.76	<0.05	12.05	0.287	0.52
TRD000465		830	5.5	73.4	<0.002	0.01	0.38	4.9	<1	1.9	35.5	0.65	<0.05	10.45	0.247	0.38
TRD000466		770	5.6	81.9	<0.002	0.01	0.39	5.1	<1	1.9	31.6	0.64	<0.05	10.50	0.247	0.46
TRD000467		830	6.9	92.3	<0.002	0.02	0.34	5.0	<1	1.7	48.6	0.65	<0.05	10.20	0.254	0.57
TRD000468		860	6.8	136.5	<0.002	0.02	0.50	7.4	<1	2.6	58.4	0.76	<0.05	12.20	0.292	0.69
TRD000469		780	6.1	86.4	<0.002	0.02	0.33	5.5	<1	2.0	29.8	0.66	<0.05	10.20	0.247	0.44
TRD000470		750	5.9	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
TRD000471		700	6.9	150.5	<0.002	0.02	0.29	10.8	<1	3.3	30.2	1.04	<0.05	14.80	0.392	0.73
TRD000472		630	6.9	93.0	<0.002	0.02	0.43	6.8	<1	2.1	39.9	0.76	<0.05	12.00	0.293	0.48
TRD000473		650	8.3	207	<0.002	0.02	0.38	11.6	<1	3.3	53.3	1.15	<0.05	18.25	0.411	1.20
TRD000474		750	6.2	92.6	<0.002	0.01	0.37	6.0	<1	1.8	46.6	0.66	<0.05	10.90	0.252	0.51
TRD000475		870	6.1	85.0	<0.002	0.01	0.34	5.3	<1	1.8	42.4	0.59	<0.05	9.64	0.231	0.42
TRD000476		880	7.5	103.0	<0.002	0.02	0.49	7.8	<1	2.7	32.3	0.80	<0.05	12.05	0.296	0.50
TRD000477		550	8.7	241	<0.002	0.02	0.34	15.0	<1	4.3	42.7	1.33	<0.05	19.45	0.455	1.20
TRD000478		540	9.4	200	<0.002	0.03	0.42	12.9	<1	3.9	61.0	1.16	0.05	18.40	0.412	1.04
TRD000479		510	6.5	157.5	<0.002	0.02	0.34	12.6	<1	3.9	35.1	1.08	<0.05	17.40	0.392	0.66
TRD000480		710	6.9	105.0	<0.002	0.12	0.70	6.8	<1	2.2	38.9	0.71	<0.05	11.70	0.273	0.78



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000441	2.5	71	4.1	23.1	67	107.5	
TRD000442	2.2	56	4.2	21.3	63	94.5	
TRD000443	2.2	47	3.5	33.2	63	109.0	
TRD000444	2.3	39	5.3	24.3	42	88.0	
TRD000445	1.9	39	8.4	22.0	42	99.3	
TRD000446	1.9	34	7.4	17.3	36	98.5	
TRD000447	1.9	35	4.6	17.0	41	102.5	
TRD000448	1.8	34	3.4	17.6	42	97.3	
TRD000449	1.8	33	4.1	17.0	41	94.1	
TRD000450	1.7	32	3.6	16.0	40	92.4	
TRD000451	1.9	41	6.3	17.0	47	91.8	
TRD000452	2.7	85	13.6	24.3	76	107.0	
TRD000453	2.7	100	11.6	29.9	81	126.5	
TRD000454	2.4	65	5.9	23.6	62	114.0	
TRD000455	2.3	55	4.9	27.2	58	115.5	
TRD000456	0.9	221	0.5	24.6	84	101.0	
TRD000457	1.8	38	5.5	17.6	36	98.9	
TRD000458	2.0	40	6.4	21.1	37	101.0	
TRD000459	1.8	37	5.7	18.5	34	91.8	
TRD000460	1.9	40	8.5	18.8	43	91.7	
TRD000461	2.0	38	8.6	17.1	39	90.7	
TRD000462	1.9	38	10.5	19.2	43	78.5	
TRD000463	2.1	42	7.3	22.6	75	74.0	
TRD000464	2.5	45	4.0	22.2	59	123.0	
TRD000465	2.1	35	5.0	18.3	49	115.5	
TRD000466	2.1	36	8.3	20.6	47	96.9	
TRD000467	2.0	38	8.7	20.0	48	91.5	
TRD000468	2.3	52	40.4	21.9	45	97.1	
TRD000469	2.1	39	12.0	21.4	48	93.2	
TRD000470	2.1	34	6.1	18.7	48	85.8	
TRD000471	2.6	73	6.4	21.9	75	121.5	
TRD000472	2.2	50	6.1	18.5	45	105.5	
TRD000473	3.0	79	6.3	26.2	45	129.0	
TRD000474	2.4	41	5.5	17.7	38	102.5	
TRD000475	2.3	39	7.2	18.4	34	80.7	
TRD000476	2.8	56	10.3	20.7	54	89.4	
TRD000477	2.9	96	7.9	21.8	81	130.5	
TRD000478	3.0	87	8.4	20.3	84	119.0	
TRD000479	2.5	81	16.5	19.1	84	113.0	
TRD000480	2.6	47	15.5	17.0	49	92.6	



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000481		1.88		0.014	0.01	4.04	10.0	350	1.44	0.08	0.18	<0.02	65.3	8.0	44	5.29
TRD000482		0.93		0.009	0.05	7.87	1.3	210	0.73	0.04	6.52	0.08	28.9	38.5	5	1.63
TRD000484	NSS															
TRD000485		0.92		0.011	0.01	6.76	7.5	290	1.02	0.13	0.02	0.03	71.7	2.7	68	3.67
TRD000486		1.11		0.010	0.01	4.70	4.4	250	0.95	0.07	0.01	<0.02	81.0	1.4	49	2.64
TRD000487		0.92		0.008	0.01	4.35	3.4	230	0.89	0.06	0.03	<0.02	84.4	1.3	46	2.49
TRD000488		1.01		0.012	0.02	6.31	6.6	320	1.39	0.28	0.01	<0.02	94.2	1.3	64	3.68
TRD000489		3.06		0.010	0.02	6.61	6.4	400	1.32	0.29	0.01	<0.02	100.5	1.4	70	3.44
TRD000490		1.32		0.012	0.01	6.66	6.8	410	1.50	0.15	0.01	<0.02	105.5	1.7	79	3.57
TRD000491		1.72		0.013	0.02	6.66	4.5	450	1.66	0.15	0.01	<0.02	70.9	2.4	70	3.46
TRD000492		1.48		0.008	0.02	7.42	3.1	510	1.79	0.20	0.01	0.02	71.5	2.4	66	3.57
TRD000493		1.84		0.009	0.02	8.55	3.0	540	2.03	0.48	0.01	<0.02	85.3	1.8	77	4.17
TRD000494		0.52		0.013	0.02	8.45	8.2	530	2.02	0.38	0.01	<0.02	90.4	1.9	88	4.29
TRD000495		1.01		0.016	0.01	7.10	6.0	450	1.72	0.21	0.01	0.02	91.4	1.8	73	3.65
TRD000496		1.11		0.162	0.02	7.02	8.5	420	1.72	0.17	0.01	<0.02	77.8	1.9	73	3.79
TRD000497		2.25		1.815	0.01	6.71	7.4	410	1.78	0.11	0.01	<0.02	58.5	2.0	70	3.57
TRD000498		1.57		2.38	0.01	7.81	4.5	520	2.70	0.10	0.01	0.02	61.5	3.4	71	3.71
TRD000499		1.19		0.435	0.01	7.95	3.3	520	2.46	0.16	0.01	<0.02	136.0	8.0	69	3.86
TRD000500		1.23		0.073	0.08	7.88	2.8	510	2.47	0.24	0.01	<0.02	193.5	11.1	65	3.80
TRD000501		3.30		4.80	0.01	7.52	2.4	490	2.35	0.31	0.01	<0.02	181.0	10.4	63	4.00
TRD000502		0.95		0.012	0.01	6.26	2.5	420	1.93	0.18	0.01	<0.02	54.3	2.6	55	3.92
TRD000503		0.79		<0.005	0.01	7.73	1.7	560	2.42	0.42	<0.01	0.03	107.0	11.8	66	4.27
TRD000504		1.19		<0.005	0.01	8.13	1.1	580	2.41	0.22	<0.01	<0.02	110.5	13.8	66	5.59
TRD000505		1.42		0.005	<0.01	8.28	1.4	610	2.43	0.07	<0.01	0.02	101.5	14.4	68	6.43
TRD000506		1.71		0.009	0.05	8.22	1.1	210	0.70	0.04	6.73	0.09	27.9	40.1	4	1.40
TRD000507		0.06		3.06	0.19	7.57	657	690	2.07	0.38	0.80	0.05	77.2	13.6	129	8.17
TRD000508		0.06		>10.0	1.34	6.34	3880	550	2.12	0.67	0.85	0.04	66.1	12.1	100	7.98
TRD000509		0.07		1.080	0.25	6.88	47.6	130	0.36	0.04	7.06	0.47	11.15	40.9	120	0.69
TRD000510		0.15		0.005	0.01	0.14	1.2	10	0.06	0.02	0.01	<0.02	2.85	0.8	11	0.11
TRD000511		0.95		<0.005	0.02	7.53	1.7	550	2.37	0.75	0.01	0.03	90.0	26.9	66	6.21
TRD000512		0.91		0.005	0.01	7.83	1.1	590	2.50	0.18	0.02	0.02	93.0	18.0	64	8.15
TRD000513		1.25		0.069	0.01	7.91	4.2	610	3.09	0.23	0.01	0.02	91.3	20.4	66	7.98
TRD000514		1.12		0.009	0.02	8.30	2.8	680	3.24	0.17	0.01	0.04	92.2	17.2	69	8.55
TRD000515		1.06		<0.005	0.02	4.72	5.2	380	1.82	0.08	0.03	0.02	68.3	12.6	42	9.39
TRD000516		1.68		0.044	0.02	5.75	5.4	500	2.23	0.10	0.01	<0.02	118.5	9.8	49	5.94
TRD000517		1.46		<0.005	0.03	6.45	3.5	490	2.26	0.08	0.01	<0.02	108.0	9.6	55	7.43
TRD000518		0.58		<0.005	0.04	7.98	3.6	630	2.95	0.52	0.01	0.07	112.0	21.6	66	8.13
TRD000519		0.90		0.046	0.02	7.70	4.0	620	3.06	0.35	0.01	0.05	89.9	12.3	66	8.59
TRD000520		0.76		<0.005	0.02	7.99	1.3	620	2.30	0.32	0.01	0.03	91.9	13.4	65	6.15
TRD000521		0.81	99.4	<0.005	0.02	7.87	11.1	570	2.42	0.24	0.01	0.35	91.8	19.2	66	8.16



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**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000481		10.8	1.85	10.65	0.21	2.7	0.025	1.55	30.3	16.4	0.45	446	1.22	0.41	9.1	18.6
TRD000482		128.5	7.04	17.60	0.25	2.9	0.061	0.75	12.6	10.6	2.40	1185	0.35	1.42	5.1	39.7
TRD000484																
TRD000485		7.0	2.64	14.80	0.20	3.5	0.046	1.09	30.6	9.4	0.19	85	1.38	0.07	9.8	12.9
TRD000486		6.0	1.60	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
TRD000487		6.3	1.59	10.10	0.18	3.6	0.030	0.95	35.2	4.1	0.13	56	0.75	0.05	9.2	6.8
TRD000488		10.5	2.12	14.20	0.20	3.8	0.031	1.66	40.5	6.9	0.20	45	1.80	0.06	11.2	9.3
TRD000489		11.4	2.05	15.00	0.19	3.8	0.045	1.83	42.8	7.3	0.21	41	2.02	0.07	11.9	10.5
TRD000490		10.8	2.75	16.10	0.21	3.7	0.058	1.88	45.1	7.2	0.21	46	1.04	0.07	12.0	9.3
TRD000491		18.7	2.65	16.70	0.20	3.2	0.062	2.01	32.4	7.5	0.21	62	0.68	0.07	12.2	8.5
TRD000492		16.4	1.85	19.20	0.20	3.5	0.051	2.48	32.2	9.2	0.24	51	1.18	0.09	14.0	11.8
TRD000493		35.5	2.59	20.9	0.21	3.8	0.066	2.71	37.6	10.4	0.28	54	1.65	0.09	14.8	11.6
TRD000494		30.7	3.09	20.5	0.23	3.8	0.048	2.58	39.8	9.7	0.27	62	1.48	0.09	14.8	11.2
TRD000495		16.8	2.42	17.10	0.23	3.7	0.059	2.11	40.1	8.1	0.23	57	1.26	0.08	12.7	9.7
TRD000496		14.6	2.79	16.05	0.14	3.5	0.064	2.02	34.7	7.9	0.22	75	1.22	0.07	12.2	9.9
TRD000497		11.6	3.61	15.55	0.14	3.4	0.042	1.91	26.2	7.0	0.20	110	0.91	0.06	11.7	11.4
TRD000498		10.0	5.00	18.40	0.16	3.2	0.065	2.51	25.7	8.1	0.23	119	0.51	0.08	13.1	16.8
TRD000499		17.6	4.01	19.80	0.19	3.2	0.062	2.60	28.5	10.2	0.24	198	0.48	0.09	13.4	16.2
TRD000500		28.2	3.61	19.10	0.20	3.2	0.056	2.65	34.2	11.6	0.25	253	0.38	0.09	13.4	15.4
TRD000501		30.1	3.13	18.65	0.19	3.1	0.057	2.60	37.6	12.7	0.27	239	0.53	0.09	12.8	14.6
TRD000502		22.4	2.68	16.05	0.16	3.3	0.047	1.89	29.4	8.7	0.21	168	1.18	0.06	12.0	12.4
TRD000503		41.7	2.54	20.8	0.25	3.3	0.082	2.91	58.0	16.8	0.65	318	0.41	0.10	14.8	21.7
TRD000504		26.4	3.08	21.8	0.30	3.2	0.052	3.14	59.9	23.0	1.06	442	0.32	0.10	15.0	27.1
TRD000505		8.7	3.31	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
TRD000506		138.0	7.17	17.25	0.34	2.8	0.057	0.79	12.6	10.4	2.47	1215	0.47	1.46	5.0	37.8
TRD000507		29.3	3.93	18.85	0.25	3.7	0.073	2.82	38.1	37.4	1.54	343	0.63	0.69	13.4	54.2
TRD000508		52.8	3.39	16.55	0.25	3.0	0.049	2.61	31.9	35.1	1.26	354	1.26	0.48	10.8	41.3
TRD000509		162.0	7.57	15.10	0.29	1.5	0.075	0.36	4.5	10.6	3.71	1285	0.79	1.65	3.0	77.7
TRD000510		7.1	1.91	0.54	0.06	0.3	<0.005	0.02	1.4	13.0	0.01	206	0.98	0.01	1.0	3.7
TRD000511		50.3	3.18	20.0	0.22	3.5	0.066	2.86	49.8	25.7	1.16	572	1.71	0.11	15.1	51.9
TRD000512		18.2	3.82	20.8	0.25	3.3	0.082	3.20	45.9	28.1	1.43	563	0.42	0.11	14.6	42.1
TRD000513		25.4	3.68	20.3	0.24	3.6	0.054	3.10	44.9	26.0	1.25	517	0.87	0.11	15.1	41.6
TRD000514		33.3	4.50	22.1	0.26	3.1	0.052	3.28	45.3	25.2	1.19	596	0.64	0.11	14.6	38.0
TRD000515		12.4	2.54	11.80	0.19	2.3	0.045	1.70	33.4	20.3	0.52	605	0.68	0.09	9.3	26.7
TRD000516		15.0	2.96	14.20	0.25	2.6	0.037	2.02	56.5	28.7	0.44	303	0.56	0.08	10.4	27.7
TRD000517		15.7	3.15	16.05	0.24	3.2	0.050	2.30	53.2	26.8	0.48	394	0.88	0.08	12.4	27.6
TRD000518		43.1	4.48	20.5	0.28	3.7	0.063	2.92	57.5	22.8	0.73	634	3.45	0.09	14.8	27.3
TRD000519		33.6	3.87	20.7	0.23	3.5	0.068	3.09	42.0	21.4	0.86	442	2.01	0.10	14.8	32.5
TRD000520		40.5	3.04	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
TRD000521		26.7	2.26	21.4	0.23	3.4	0.062	3.22	43.7	28.3	0.86	310	1.54	0.09	15.0	31.2



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Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000481		720	7.0	99.9	<0.002	0.14	0.80	6.1	<1	2.0	39.2	0.71	<0.05	11.20	0.263	0.78
TRD000482		400	5.7	32.0	<0.002	0.04	0.20	38.9	<1	1.1	145.0	0.40	<0.05	3.71	0.394	0.20
TRD000484																
TRD000485		200	14.8	73.4	<0.002	0.03	0.52	9.4	1	2.6	20.6	0.78	<0.05	22.2	0.275	0.34
TRD000486		190	13.6	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
TRD000487		180	13.1	59.1	<0.002	0.02	0.37	7.6	1	1.9	16.1	0.72	<0.05	16.90	0.275	0.29
TRD000488		170	13.6	99.1	<0.002	0.02	0.89	10.4	1	2.5	16.5	0.90	<0.05	21.5	0.320	0.46
TRD000489		210	14.0	98.5	<0.002	0.02	0.78	11.2	1	2.9	20.1	0.95	<0.05	22.4	0.338	0.45
TRD000490		340	14.4	105.0	<0.002	0.02	0.70	12.8	1	2.8	21.3	0.96	<0.05	28.1	0.335	0.45
TRD000491		240	10.6	102.5	<0.002	0.02	0.66	12.0	1	3.2	21.8	0.97	<0.05	20.3	0.345	0.42
TRD000492		170	10.2	115.5	<0.002	0.02	0.62	12.8	1	3.5	23.4	1.11	<0.05	20.6	0.389	0.48
TRD000493		130	11.0	131.0	<0.002	0.02	0.79	14.1	1	3.6	24.7	1.16	0.07	23.5	0.413	0.58
TRD000494		150	11.9	133.5	<0.002	0.02	0.90	14.1	1	3.7	25.0	1.16	0.09	24.9	0.413	0.60
TRD000495		210	12.4	108.0	<0.002	0.02	0.68	12.4	1	3.3	21.8	1.02	<0.05	23.0	0.366	0.48
TRD000496		180	12.6	102.5	<0.002	0.02	0.66	10.8	1	3.1	22.1	0.98	<0.05	22.4	0.359	0.47
TRD000497		170	12.9	93.0	<0.002	0.01	0.60	10.3	<1	3.0	22.6	0.94	<0.05	20.4	0.345	0.42
TRD000498		240	11.2	107.5	<0.002	0.02	0.72	12.1	<1	3.5	28.9	1.02	<0.05	19.95	0.387	0.44
TRD000499		160	10.7	115.0	<0.002	0.01	0.56	12.7	<1	3.8	29.3	1.05	<0.05	19.40	0.389	0.50
TRD000500		130	9.8	114.5	<0.002	0.01	0.51	12.3	<1	3.6	29.0	1.05	<0.05	18.35	0.383	0.53
TRD000501		150	9.6	111.0	<0.002	0.01	0.53	11.9	1	3.6	27.1	1.08	<0.05	17.55	0.373	0.50
TRD000502		260	10.4	94.4	<0.002	0.01	0.52	10.2	1	2.9	28.6	0.96	<0.05	15.95	0.339	0.42
TRD000503		130	9.7	122.0	<0.002	0.08	0.45	13.0	1	3.9	29.3	1.18	<0.05	17.10	0.415	0.87
TRD000504		110	8.5	143.0	<0.002	0.07	0.40	13.5	<1	4.0	30.0	1.18	<0.05	19.35	0.408	0.80
TRD000505		100	7.6	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
TRD000506		410	5.6	30.0	<0.002	0.04	0.18	37.3	<1	1.1	148.5	0.36	<0.05	3.75	0.393	0.19
TRD000507		570	18.6	149.5	<0.002	0.14	603	13.2	1	3.5	101.0	1.01	<0.05	14.80	0.465	0.83
TRD000508		510	30.4	142.0	<0.002	0.76	3570	10.8	1	4.1	98.9	0.80	<0.05	12.30	0.359	0.77
TRD000509		400	19.8	10.1	0.002	0.31	1.31	38.0	<1	0.9	182.5	0.24	0.05	0.85	0.572	0.16
TRD000510		10	0.8	1.0	<0.002	0.01	0.26	0.2	<1	0.5	0.8	<0.05	<0.05	0.78	0.032	<0.02
TRD000511		120	11.1	133.5	0.004	0.40	0.62	12.3	1	3.8	28.6	1.13	<0.05	16.65	0.425	0.90
TRD000512		130	7.2	166.5	<0.002	0.11	0.34	12.8	1	3.9	27.7	1.13	<0.05	18.55	0.401	0.92
TRD000513		280	8.8	166.0	0.002	0.08	0.53	12.8	<1	3.8	30.8	1.13	<0.05	18.65	0.422	0.87
TRD000514		520	8.7	161.0	<0.002	0.09	0.57	13.6	1	3.9	33.7	1.08	<0.05	18.40	0.418	0.88
TRD000515		630	8.5	145.5	<0.002	0.02	0.47	6.9	<1	2.1	31.0	0.68	<0.05	11.15	0.274	1.00
TRD000516		990	8.0	108.5	<0.002	0.01	0.56	9.5	<1	2.7	36.7	0.81	<0.05	13.30	0.312	0.58
TRD000517		840	8.6	125.0	<0.002	0.01	0.72	10.0	<1	3.2	29.6	0.95	<0.05	15.90	0.370	0.69
TRD000518		1170	10.6	161.5	<0.002	0.01	1.29	13.5	1	3.7	40.6	1.15	<0.05	19.35	0.413	1.06
TRD000519		780	10.4	157.0	<0.002	0.05	0.87	12.9	1	4.0	38.1	1.10	0.05	17.90	0.420	0.89
TRD000520		210	8.9	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
TRD000521		140	16.1	178.0	<0.002	0.23	1.31	13.2	1	3.9	32.6	1.15	<0.05	18.45	0.415	0.90



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Project: Panama Project

**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
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000481		2.7	43	16.0	17.6	41	94.7
TRD000482		0.9	215	0.5	23.2	81	105.0
TRD000484							
TRD000485		2.5	63	10.2	11.0	21	112.5
TRD000486		2.1	42	6.2	9.7	11	118.0
TRD000487		2.0	40	5.9	12.4	9	120.5
TRD000488		2.4	62	7.4	11.0	11	125.0
TRD000489		2.5	69	6.7	12.2	13	129.0
TRD000490		2.8	69	8.1	12.2	14	123.5
TRD000491		2.7	77	5.5	13.6	38	108.0
TRD000492		3.0	89	6.4	14.7	39	120.0
TRD000493		3.4	129	6.8	15.2	35	129.5
TRD000494		3.4	111	7.2	15.9	37	132.0
TRD000495		2.9	85	7.0	13.7	26	124.5
TRD000496		2.8	80	7.3	13.1	30	117.5
TRD000497		2.9	70	7.2	14.2	42	116.0
TRD000498		3.0	84	7.1	20.9	58	109.5
TRD000499		2.9	85	6.8	17.4	55	110.0
TRD000500		2.8	86	6.0	20.2	61	105.5
TRD000501		2.9	84	5.3	20.4	59	102.0
TRD000502		2.9	70	4.2	18.3	36	110.0
TRD000503		3.1	97	3.8	33.9	104	116.0
TRD000504		2.9	91	3.6	31.6	101	111.0
TRD000505		2.6	92	3.6	26.0	92	104.5
TRD000506		1.0	219	0.4	22.7	83	101.5
TRD000507		2.5	104	2.8	16.5	101	126.0
TRD000508		2.3	83	7.3	11.4	92	102.5
TRD000509		0.2	262	25.3	18.0	131	46.6
TRD000510		0.1	3	0.2	0.9	3	8.7
TRD000511		4.1	117	3.5	38.3	97	125.0
TRD000512		2.7	92	4.1	34.3	69	111.5
TRD000513		3.6	114	4.4	29.9	79	120.5
TRD000514		2.7	96	5.5	26.1	81	106.5
TRD000515		2.0	50	6.8	31.2	57	80.1
TRD000516		2.7	62	5.0	27.8	52	87.5
TRD000517		2.7	71	6.3	38.6	74	109.0
TRD000518		4.4	138	5.8	46.9	93	126.5
TRD000519		4.1	153	6.2	40.2	93	124.0
TRD000520		2.5	96	6.0	28.3	71	108.0
TRD000521		3.5	106	7.9	27.3	64	119.5



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**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000522		0.47		0.008	0.02	8.07	3.6	630	2.64	0.08	0.01	0.06	87.3	14.0	66	10.20
TRD000523		0.66		<0.005	0.01	7.68	2.0	570	2.38	0.18	0.02	0.04	85.5	13.9	63	7.71
TRD000524		0.48		0.024	0.01	7.81	2.6	570	2.53	0.12	0.02	0.02	91.9	13.0	67	7.79
TRD000525		0.89		0.006	0.01	7.95	1.9	610	2.56	0.11	0.02	0.02	83.9	12.4	65	8.14
TRD000526		0.89		0.007	0.02	8.26	1.5	620	2.81	0.30	0.02	<0.02	86.0	12.8	56	11.20
TRD000527		0.87		<0.005	0.02	7.84	4.5	620	2.48	0.08	0.03	0.03	86.4	14.4	63	9.74
TRD000528		1.07		<0.005	0.02	7.90	2.4	630	2.72	0.25	0.01	0.03	104.0	11.6	62	9.40
TRD000529		0.60		0.006	0.02	7.01	3.5	570	2.31	0.36	0.01	0.04	42.5	10.0	64	5.75
TRD000530		0.88		<0.005	0.02	7.75	1.2	590	2.55	0.29	0.03	0.03	102.5	12.7	65	6.87
TRD000531		1.23		<0.005	0.01	7.96	1.1	630	2.78	0.11	0.06	0.02	92.5	10.6	67	8.11
TRD000532		1.08		0.005	0.01	7.99	3.9	610	2.99	0.16	0.09	0.02	92.8	18.2	67	8.80
TRD000533		0.57		<0.005	0.02	7.45	3.6	550	2.89	0.41	0.10	0.02	93.2	26.0	66	8.92
TRD000534		0.86		0.005	0.02	7.71	4.4	560	2.95	0.50	0.11	0.03	94.4	27.1	66	11.00
TRD000535		1.13		<0.005	0.03	7.56	2.0	590	2.78	0.54	0.11	0.02	89.2	21.8	73	8.95
TRD000536		1.32		<0.005	0.02	7.92	2.9	620	2.90	0.37	0.12	0.03	92.9	21.7	75	9.71
TRD000537		1.35		0.007	0.05	8.26	1.2	210	0.80	0.04	6.77	0.09	28.7	41.1	4	1.70
TRD000538		0.62		<0.005	0.03	7.94	1.8	640	2.78	0.68	0.14	0.02	93.9	24.3	77	7.95
TRD000539		1.34		<0.005	0.04	6.88	3.3	520	2.50	0.35	0.11	0.04	90.2	18.2	65	8.49
TRD000540		1.43		0.007	0.06	4.64	5.3	330	1.80	0.22	0.06	0.02	70.2	8.2	47	4.38
TRD000541		1.53		0.010	0.05	3.82	5.5	270	1.36	0.21	0.04	<0.02	60.6	5.1	46	3.40
TRD000542		1.61		<0.005	0.05	3.75	5.9	260	1.32	0.22	0.07	<0.02	60.7	5.2	43	3.90
TRD000543		1.89		0.006	0.03	3.92	5.6	260	1.71	0.11	0.05	0.02	63.9	6.3	46	4.69
TRD000544		1.51		<0.005	0.05	5.18	7.8	350	1.94	0.18	0.03	<0.02	87.5	6.8	55	6.42
TRD000545		0.95		<0.005	0.06	7.23	9.7	590	2.20	0.12	0.02	<0.02	84.9	5.8	66	9.45
TRD000546		1.23		0.009	0.04	3.84	7.0	220	1.57	0.09	0.02	<0.02	58.4	3.6	46	5.92
TRD000547		1.20		0.129	0.03	3.53	9.4	160	1.93	0.12	0.02	<0.02	56.4	4.2	40	5.82
TRD000548		1.06		0.010	0.05	3.21	18.6	130	2.27	0.14	0.01	0.02	54.3	3.9	37	6.76
TRD000549		2.33		0.036	0.06	3.43	19.0	150	2.02	0.18	0.02	0.02	54.2	3.9	43	6.51
TRD000550		2.68		0.332	0.04	3.50	12.0	120	1.62	0.08	0.02	<0.02	56.6	3.0	44	4.74
TRD000551		2.84		0.027	0.03	4.08	8.8	140	1.75	0.07	0.03	<0.02	62.7	3.6	47	5.49
TRD000552		2.86		0.848	0.04	3.40	11.9	200	1.31	0.24	0.02	<0.02	56.7	3.8	43	6.62
TRD000553		2.45		0.029	0.07	9.31	12.6	840	2.47	0.16	0.02	0.10	121.0	12.8	84	11.35
TRD000554		2.78		0.038	0.05	3.80	5.2	250	1.49	0.13	0.02	0.03	60.5	5.1	46	5.41
TRD000555		3.09		0.008	0.03	3.23	5.0	200	1.18	0.14	0.02	<0.02	53.4	4.1	43	4.91
TRD000556		3.41		0.013	0.05	3.13	6.0	150	1.41	0.10	0.03	<0.02	52.0	3.0	43	3.78
TRD000557		2.76		0.016	0.08	5.99	9.2	380	2.10	0.39	0.09	0.04	82.6	11.6	60	8.35
TRD000558		2.37		<0.005	0.03	7.91	2.9	640	2.76	0.66	0.14	0.02	93.7	23.9	76	10.05
TRD000559		2.52		<0.005	0.02	7.67	6.2	580	2.98	0.21	0.12	0.02	84.2	22.6	69	8.60
TRD000560		1.98		<0.005	0.02	7.72	2.8	590	2.86	0.12	0.11	<0.02	86.0	12.6	67	7.86
TRD000561		1.57	93.6	0.008	0.05	8.24	1.2	210	0.74	0.04	6.75	0.09	27.1	40.9	4	1.56



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**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000522		12.6	2.70	21.6	0.29	3.2	0.059	3.49	41.2	28.1	1.09	390	0.73	0.11	14.8	28.5
TRD000523		36.0	3.26	20.4	0.25	2.9	0.069	3.18	41.6	29.1	1.32	668	0.58	0.12	14.2	30.4
TRD000524		21.7	3.63	20.3	0.29	2.8	0.052	3.06	44.2	32.0	1.42	827	0.46	0.12	13.8	28.7
TRD000525		28.1	3.48	21.1	0.26	2.9	0.082	3.21	40.6	32.1	1.39	706	0.36	0.12	14.2	27.5
TRD000526		8.0	3.22	21.3	0.32	3.4	0.055	3.29	40.2	35.8	1.46	612	0.46	0.13	15.0	26.6
TRD000527		27.5	3.45	20.4	0.24	3.0	0.051	3.20	42.4	30.8	1.37	626	0.43	0.12	14.2	30.9
TRD000528		33.1	3.08	22.0	0.31	3.3	0.049	3.19	50.6	30.5	1.18	576	0.31	0.10	15.0	25.7
TRD000529		41.2	3.17	20.6	0.26	3.0	0.068	2.93	18.4	24.5	0.90	536	0.32	0.11	14.0	20.3
TRD000530		47.5	3.37	19.55	0.12	3.3	0.062	3.11	48.4	30.2	1.32	623	0.53	0.13	14.6	30.9
TRD000531		14.2	3.25	20.4	0.10	3.3	0.065	3.40	43.8	30.8	1.34	617	0.51	0.16	14.9	29.9
TRD000532		20.3	3.19	20.2	0.11	3.6	0.070	3.37	44.4	30.9	1.33	564	0.67	0.20	15.4	36.1
TRD000533		50.1	3.27	18.85	0.11	3.8	0.067	3.08	44.6	29.7	1.29	468	0.80	0.22	15.4	43.2
TRD000534		45.6	3.55	19.25	0.11	4.0	0.052	3.24	46.6	29.4	1.35	518	1.38	0.25	15.8	51.6
TRD000535		46.7	3.18	19.95	0.11	3.9	0.057	3.24	41.7	28.6	1.28	449	1.18	0.25	16.1	49.5
TRD000536		36.3	3.22	20.0	0.13	3.9	0.072	3.41	45.6	29.1	1.31	408	1.28	0.25	16.7	50.0
TRD000537		138.0	7.25	16.45	0.09	2.9	0.061	0.79	13.4	11.7	2.53	1250	0.46	1.45	5.2	42.9
TRD000538		64.1	3.38	20.0	0.13	4.0	0.065	3.27	45.6	28.8	1.28	478	3.40	0.27	16.3	52.1
TRD000539		39.2	3.00	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
TRD000540		22.2	2.64	11.65	0.10	2.5	0.043	1.57	33.3	19.4	0.68	323	1.94	0.29	9.4	22.5
TRD000541		15.6	2.20	9.00	0.09	2.4	0.030	1.20	28.2	16.0	0.54	265	2.79	0.35	8.2	16.4
TRD000542		15.2	1.95	8.78	0.08	2.5	0.021	1.20	29.0	14.2	0.51	279	2.38	0.36	8.3	14.9
TRD000543		14.2	2.22	9.38	0.08	2.7	0.027	1.26	30.6	15.4	0.51	301	2.35	0.32	8.4	17.6
TRD000544		19.8	2.62	12.55	0.09	3.3	0.040	1.69	40.4	20.9	0.78	361	1.88	0.28	11.0	20.3
TRD000545		17.8	2.50	18.55	0.10	3.7	0.067	2.60	39.2	21.1	0.82	315	1.32	0.19	14.5	21.0
TRD000546		14.8	2.48	9.05	0.07	2.7	0.028	1.18	27.6	15.4	0.45	216	1.74	0.15	8.3	13.3
TRD000547		14.8	3.10	8.06	0.08	2.4	0.014	1.08	26.1	15.3	0.33	210	1.54	0.07	7.6	13.5
TRD000548		17.3	3.89	7.38	0.08	2.1	0.023	0.89	24.7	15.8	0.28	193	1.46	0.04	6.4	11.6
TRD000549		22.1	3.50	7.79	0.07	2.2	0.019	1.07	24.3	16.9	0.32	219	1.90	0.04	6.7	13.6
TRD000550		8.9	2.87	8.85	0.07	2.2	0.019	1.10	26.1	19.2	0.48	232	1.93	0.05	6.5	14.8
TRD000551		8.8	2.54	10.90	0.07	2.4	0.021	1.36	28.8	22.2	0.57	229	1.92	0.06	8.1	16.2
TRD000552		14.6	2.66	8.19	0.08	2.3	0.019	1.06	26.3	15.8	0.46	254	2.31	0.19	7.6	15.4
TRD000553		24.7	3.11	24.0	0.14	4.5	0.076	3.74	59.8	25.9	1.15	499	1.38	0.28	18.7	31.0
TRD000554		16.5	2.36	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
TRD000555		13.6	2.24	7.39	0.07	2.4	0.027	0.97	24.8	15.2	0.41	262	2.36	0.25	7.3	16.8
TRD000556		17.4	1.98	7.01	0.07	2.3	0.018	0.89	24.2	15.6	0.38	170	2.43	0.32	6.9	14.0
TRD000557		33.2	2.92	15.50	0.09	3.1	0.044	2.10	39.2	30.5	1.05	377	3.64	0.33	12.7	30.4
TRD000558		53.5	3.41	20.5	0.12	4.0	0.063	3.43	44.3	31.9	1.34	430	3.72	0.25	16.7	52.1
TRD000559		31.9	3.48	19.05	0.11	3.7	0.047	3.25	40.3	32.6	1.36	457	1.32	0.23	15.3	42.5
TRD000560		30.6	3.42	19.50	0.11	3.2	0.068	3.32	40.9	32.4	1.39	539	0.58	0.20	14.8	31.0
TRD000561		137.5	7.27	15.80	0.10	2.8	0.053	0.78	12.7	10.7	2.51	1235	0.42	1.46	5.2	42.3



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**CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000522		150	8.9	179.5	<0.002	0.06	0.65	13.6	<1	4.0	36.5	1.13	<0.05	18.40	0.412	0.92
TRD000523		180	7.4	157.0	<0.002	0.14	0.75	12.5	1	3.8	34.5	1.03	<0.05	17.15	0.394	0.85
TRD000524		170	7.7	152.0	<0.002	0.08	0.62	12.6	<1	3.6	32.2	1.06	<0.05	17.00	0.392	0.77
TRD000525		150	7.1	162.5	<0.002	0.06	0.51	12.9	1	4.4	33.6	1.09	<0.05	17.55	0.389	0.82
TRD000526		160	13.0	182.0	0.002	0.03	0.47	12.9	<1	4.6	33.7	1.46	0.05	20.2	0.359	0.91
TRD000527		210	8.5	164.0	<0.002	0.03	0.41	12.6	<1	4.0	31.7	1.11	<0.05	17.85	0.382	0.82
TRD000528		180	12.0	168.0	<0.002	0.08	0.62	13.5	<1	4.1	35.9	1.16	<0.05	18.25	0.392	0.84
TRD000529		190	8.0	110.0	<0.002	0.11	0.73	11.8	<1	4.0	28.9	1.09	<0.05	11.95	0.383	0.68
TRD000530		220	7.2	153.0	<0.002	0.18	0.76	13.7	<1	3.6	31.8	1.09	<0.05	17.15	0.394	0.70
TRD000531		350	7.5	169.5	<0.002	0.06	0.37	14.3	<1	3.8	30.9	1.10	<0.05	18.70	0.414	0.76
TRD000532		460	8.2	177.5	<0.002	0.10	0.53	14.4	1	3.8	30.4	1.17	<0.05	18.85	0.420	0.84
TRD000533		520	8.5	171.5	0.002	0.30	1.29	13.4	1	3.4	29.8	1.15	0.06	17.75	0.407	0.96
TRD000534		580	9.1	187.5	0.002	0.35	0.68	13.2	<1	3.6	30.6	1.15	0.07	19.00	0.433	1.02
TRD000535		580	8.5	175.0	0.002	0.35	0.93	13.9	1	3.8	30.6	1.19	0.06	18.25	0.433	0.99
TRD000536		590	7.8	189.0	<0.002	0.25	0.97	14.3	1	4.0	31.8	1.20	<0.05	19.35	0.434	0.97
TRD000537		410	5.6	36.9	<0.002	0.04	0.17	39.9	1	0.9	150.0	0.31	<0.05	3.67	0.398	0.20
TRD000538		650	8.6	167.0	<0.002	0.43	1.08	14.2	1	4.0	32.6	1.19	0.07	18.80	0.446	0.94
TRD000539		660	12.8	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
TRD000540		610	10.2	87.7	<0.002	0.08	0.85	7.6	<1	2.3	26.1	0.71	<0.05	11.70	0.269	0.43
TRD000541		690	8.4	67.4	<0.002	0.03	0.79	5.8	<1	1.8	23.3	0.62	<0.05	9.69	0.243	0.31
TRD000542		660	7.7	73.5	<0.002	0.02	0.69	5.6	<1	1.8	23.2	0.61	<0.05	9.84	0.244	0.34
TRD000543		600	6.3	81.3	<0.002	0.03	0.79	6.0	<1	1.7	25.1	0.65	<0.05	10.30	0.246	0.40
TRD000544		570	13.8	110.0	<0.002	0.01	0.81	8.3	<1	2.2	27.9	0.82	<0.05	13.75	0.318	0.55
TRD000545		310	13.2	160.0	<0.002	0.01	0.81	12.2	<1	3.5	37.3	1.10	<0.05	18.45	0.412	0.75
TRD000546		570	7.6	91.3	<0.002	0.01	0.69	5.7	<1	1.5	24.8	0.62	<0.05	9.78	0.246	0.42
TRD000547		850	6.8	95.1	<0.002	0.03	1.02	5.2	<1	1.1	17.0	0.57	<0.05	9.15	0.223	0.46
TRD000548		1300	7.9	82.2	<0.002	0.03	1.22	4.7	<1	0.9	12.6	0.47	<0.05	8.39	0.193	0.42
TRD000549		1140	8.4	92.8	<0.002	0.03	1.16	5.1	<1	1.0	19.4	0.50	<0.05	8.84	0.208	0.52
TRD000550		770	4.1	92.0	<0.002	0.02	1.34	5.2	<1	1.3	18.6	0.48	<0.05	8.60	0.204	0.34
TRD000551		580	4.2	115.5	<0.002	0.01	0.71	6.0	<1	1.5	22.4	0.57	<0.05	9.46	0.230	0.41
TRD000552		630	10.4	85.4	<0.002	0.01	0.74	5.2	<1	1.5	23.6	0.57	0.05	8.84	0.224	0.45
TRD000553		370	13.4	212	<0.002	0.02	0.86	16.4	<1	4.9	53.4	1.41	<0.05	22.3	0.530	0.90
TRD000554		520	8.7	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
TRD000555		560	7.7	73.2	<0.002	0.01	0.63	4.9	<1	1.3	28.9	0.55	<0.05	8.52	0.219	0.35
TRD000556		510	7.7	73.1	<0.002	0.03	0.82	4.6	<1	1.1	29.1	0.53	<0.05	8.52	0.212	0.32
TRD000557		560	16.6	136.5	<0.002	0.10	1.38	10.1	1	2.8	31.8	0.93	0.06	14.55	0.344	0.63
TRD000558		670	9.7	189.5	0.002	0.34	1.16	14.4	1	4.0	33.9	1.20	0.10	18.75	0.441	0.93
TRD000559		610	8.1	179.0	<0.002	0.15	0.86	13.6	1	3.6	31.5	1.14	0.05	17.80	0.420	0.84
TRD000560		520	7.4	170.0	<0.002	0.11	0.65	13.8	<1	3.7	30.5	1.05	<0.05	16.70	0.399	0.71
TRD000561		410	5.4	36.3	<0.002	0.04	0.15	38.6	<1	1.0	152.5	0.31	<0.05	3.48	0.392	0.18



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Project: Panama Project

**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
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000522	2.9	92	9.5	28.2	64	112.5	
TRD000523	2.6	88	5.4	27.7	90	106.0	
TRD000524	2.6	86	4.5	26.2	105	99.6	
TRD000525	2.7	88	6.7	26.6	89	103.5	
TRD000526	4.2	79	6.3	30.7	72	111.5	
TRD000527	3.0	88	6.1	29.6	76	105.5	
TRD000528	3.1	90	6.7	38.4	94	111.0	
TRD000529	2.6	89	5.3	15.4	89	104.5	
TRD000530	2.8	92	4.8	27.1	107	109.0	
TRD000531	2.9	95	4.8	28.5	92	114.5	
TRD000532	3.4	117	5.3	29.2	89	122.5	
TRD000533	3.6	124	6.1	30.6	85	130.5	
TRD000534	3.8	154	4.9	31.1	86	135.0	
TRD000535	3.8	122	6.5	28.7	93	129.0	
TRD000536	3.6	116	7.6	30.7	89	129.5	
TRD000537	1.0	220	0.4	24.3	83	104.5	
TRD000538	3.6	112	6.7	30.4	86	136.0	
TRD000539	2.9	86	6.8	27.5	94	119.0	
TRD000540	2.1	55	6.4	20.1	45	81.8	
TRD000541	1.8	42	4.9	17.8	37	83.5	
TRD000542	1.9	42	5.3	16.4	37	81.4	
TRD000543	1.9	45	6.3	19.8	41	87.8	
TRD000544	2.3	58	10.2	27.8	51	106.0	
TRD000545	2.8	81	20.4	24.3	40	122.5	
TRD000546	1.8	41	9.3	14.8	28	84.5	
TRD000547	1.8	38	13.5	15.8	29	78.6	
TRD000548	1.9	36	11.0	15.8	29	68.9	
TRD000549	1.9	38	10.8	16.2	29	70.5	
TRD000550	1.6	40	22.9	12.7	34	69.3	
TRD000551	1.8	43	28.5	15.1	37	77.6	
TRD000552	1.8	37	7.2	15.0	32	76.5	
TRD000553	3.8	106	17.6	36.3	58	151.5	
TRD000554	1.9	41	5.8	18.7	36	90.8	
TRD000555	1.7	34	6.1	15.0	32	79.6	
TRD000556	1.5	33	7.1	14.0	27	73.3	
TRD000557	2.4	71	13.4	23.2	58	102.5	
TRD000558	3.7	126	8.3	28.9	87	137.0	
TRD000559	3.4	128	6.8	26.8	80	126.0	
TRD000560	2.8	99	5.5	27.3	88	111.5	
TRD000561	0.9	222	0.4	24.5	82	106.0	



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**CERTIFICATE OF ANALYSIS BU22069258**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	ME-MS61											
		Recvd Wt. kg	Pass75um %	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
TRD000562		2.70		0.074	0.01	7.55	3.0	550	2.68	0.08	0.12	<0.02	82.3	13.2	64	9.37
TRD000563		2.94		0.018	0.03	8.84	1.5	630	3.48	0.29	0.12	0.02	94.7	12.2	55	10.75
TRD000564		0.99		0.006	0.01	7.61	2.4	540	2.14	0.16	0.13	<0.02	84.5	10.7	65	6.46
TRD000565		1.28		<0.005	0.02	7.37	1.9	540	2.43	0.22	0.11	<0.02	86.0	14.1	64	7.17
TRD000566		1.09		<0.005	0.03	7.78	1.7	560	2.51	0.50	0.13	0.04	88.2	19.6	70	10.20
TRD000567		1.94		<0.005	0.04	7.62	3.9	540	2.47	0.54	0.13	0.05	93.9	22.6	66	12.15
TRD000568		1.82		<0.005	0.02	7.75	1.7	550	2.44	0.17	0.10	0.02	87.3	12.6	66	8.55
TRD000569		1.61		1.405	0.03	7.48	1.6	560	2.59	0.43	0.11	0.21	76.8	14.6	67	10.00
TRD000570		1.51		0.234	0.02	6.66	5.1	490	2.29	0.18	0.11	0.13	80.1	12.7	59	14.60
TRD000571		0.92		0.006	0.02	7.81	3.8	540	2.72	0.30	0.12	0.06	88.0	19.3	68	15.05
TRD000572		1.81		0.007	0.05	7.51	9.0	500	2.82	0.59	0.14	0.13	86.1	23.4	69	13.00

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



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 Account: TINONEAUS

Project: Panama Project

**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														
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	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
TRD000562		18.8	3.84	18.95	0.12	3.0	0.058	3.17	39.5	35.6	1.51	632	0.74	0.22	13.9	34.0
TRD000563		17.2	3.64	20.6	0.12	3.5	0.072	3.44	44.3	45.8	1.58	1045	0.47	0.26	15.1	30.6
TRD000564		17.8	3.74	18.70	0.09	2.7	0.059	2.94	41.4	31.8	1.49	757	0.41	0.23	12.8	28.6
TRD000565		32.6	3.80	19.10	0.08	2.9	0.066	3.00	40.5	30.1	1.45	961	0.60	0.22	13.9	33.3
TRD000566		34.8	3.92	19.20	0.09	3.2	0.062	3.11	43.5	30.4	1.48	1020	3.30	0.34	14.3	47.2
TRD000567		40.9	4.00	19.65	0.11	3.3	0.074	3.10	45.1	33.0	1.57	1040	6.10	0.31	15.0	48.3
TRD000568		33.1	3.77	19.80	0.10	3.0	0.064	3.14	41.4	32.4	1.53	688	0.90	0.17	14.1	29.6
TRD000569		38.6	3.19	19.70	0.07	3.3	0.069	3.28	35.0	30.3	1.34	566	1.30	0.21	14.4	32.6
TRD000570		16.6	2.32	16.85	0.09	2.8	0.051	2.82	38.6	33.3	0.92	335	0.78	0.17	12.4	29.3
TRD000571		43.1	3.75	19.25	0.09	3.3	0.066	3.11	43.4	36.1	1.40	674	1.28	0.23	14.2	39.4
TRD000572		44.9	4.20	18.95	0.10	3.5	0.077	2.89	42.1	36.1	1.40	1100	2.33	0.34	14.5	47.9

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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22069258**

Sample Description	Method Analyte Units LOD	ME-MS61														
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	%	ppm							
		10	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
TRD000562		520	8.0	173.0	<0.002	0.06	0.52	13.2	<1	3.6	29.7	1.04	<0.05	16.30	0.391	0.76
TRD000563		530	18.7	205	<0.002	0.02	0.43	14.2	<1	4.5	50.2	1.51	0.05	21.7	0.360	0.94
TRD000564		460	9.1	138.5	<0.002	0.05	0.50	13.3	<1	3.5	30.5	1.06	<0.05	17.20	0.376	0.73
TRD000565		490	8.5	145.0	<0.002	0.24	0.69	13.3	<1	3.8	29.2	1.13	<0.05	18.25	0.388	0.86
TRD000566		540	12.2	166.0	0.003	0.41	0.62	13.2	<1	3.6	28.8	1.16	0.05	19.15	0.412	1.04
TRD000567		550	13.2	187.0	0.006	0.58	0.67	13.8	1	3.7	31.3	1.18	0.07	19.70	0.402	1.22
TRD000568		460	8.0	160.0	<0.002	0.22	0.61	13.6	<1	3.9	26.2	1.14	<0.05	17.70	0.390	0.93
TRD000569		530	9.9	159.5	<0.002	0.32	0.72	13.8	<1	4.0	34.4	1.18	<0.05	17.40	0.405	1.04
TRD000570		500	9.3	163.0	<0.002	0.10	0.49	11.2	<1	3.2	42.7	1.02	<0.05	15.45	0.358	0.88
TRD000571		520	9.5	174.0	0.002	0.24	0.93	13.8	<1	3.5	40.3	1.14	<0.05	18.70	0.405	0.94
TRD000572		540	15.0	163.5	0.005	0.40	2.06	13.2	1	3.6	38.7	1.19	0.06	18.75	0.411	0.95

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



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 Account: TINONEAUS

Project: Panama Project

**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
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5
TRD000562		2.6	90	5.3	25.4	81	104.5
TRD000563		4.3	79	7.9	30.3	92	111.5
TRD000564		2.4	84	7.2	22.5	80	97.5
TRD000565		2.5	85	6.9	23.6	80	108.0
TRD000566		3.9	113	7.2	24.5	96	119.5
TRD000567		4.2	95	7.4	26.3	97	124.5
TRD000568		2.4	88	8.4	23.9	73	112.0
TRD000569		3.1	103	7.7	26.5	106	121.5
TRD000570		2.4	84	13.3	21.1	75	102.0
TRD000571		3.1	111	9.3	25.0	88	121.0
TRD000572		4.0	117	7.2	24.4	116	127.0

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Project: Panama Project

<b>CERTIFICATE OF ANALYSIS BU22069258</b>
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	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  
 Account: TINONEAUS

**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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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000574		0.41	99.0	0.131		0.02	7.69	10.4	400	1.88	0.35	0.02	0.05	25.8	4.9	82
TRD000575		0.78		0.176		0.08	9.21	14.5	480	2.32	0.79	0.01	0.03	68.2	2.8	86
TRD000576		1.09		0.115		0.03	8.87	9.3	520	2.17	0.47	0.01	<0.02	51.9	2.9	85
TRD000577		1.06		0.013		0.02	8.60	11.5	550	2.27	0.25	0.01	0.02	28.5	3.8	78
TRD000578		1.24		0.013		0.03	8.47	10.2	550	2.28	0.62	0.01	0.03	41.6	2.1	73
TRD000579		1.57		0.009		0.01	8.30	19.5	540	2.24	0.35	<0.01	0.02	48.5	3.1	71
TRD000580		1.38		0.014		0.02	7.89	14.1	530	2.14	0.56	0.01	0.03	52.9	2.3	68
TRD000581		1.52		0.008		0.01	8.31	13.5	540	2.17	0.40	<0.01	<0.02	51.1	2.7	67
TRD000582		0.57		0.007		0.02	8.15	8.2	550	2.25	0.40	0.01	0.02	78.2	3.6	71
TRD000583		1.50		0.010		0.03	8.14	6.5	560	2.42	0.46	0.01	0.02	88.1	2.5	68
TRD000584		0.96		0.157		0.07	6.95	12.2	450	2.59	0.82	0.01	0.02	91.7	2.2	69
TRD000585		2.13		0.033		0.07	6.51	14.6	400	2.48	0.35	0.01	0.02	125.5	4.7	57
TRD000586		1.55		0.009		0.05	7.63	1.2	200	0.75	0.04	6.46	0.08	23.5	37.6	5
TRD000587		1.37		0.016		0.07	7.57	12.3	500	2.55	0.27	0.01	0.02	131.0	5.8	63
TRD000588		1.95		0.015		0.07	7.91	7.6	490	2.51	0.30	<0.01	<0.02	472	40.9	71
TRD000589		1.63		0.007		0.03	8.29	28.8	570	2.44	0.59	0.01	0.02	155.5	9.3	69
TRD000590		1.94		0.046		0.02	7.69	11.7	540	2.46	0.59	0.01	0.04	88.9	3.9	66
TRD000591		2.28		0.008		0.03	8.16	10.4	530	2.67	0.30	<0.01	0.05	114.5	11.9	66
TRD000592		2.05		0.117		0.03	6.78	11.5	410	2.25	0.72	0.01	0.05	196.0	33.9	58
TRD000593		1.91		0.017		0.03	8.01	10.2	530	2.68	0.21	<0.01	0.10	186.5	19.1	67
TRD000594		1.74		0.006		0.24	7.61	49.7	570	2.22	0.51	0.01	0.03	58.7	2.9	67
TRD000595		1.65		0.009		0.04	8.18	19.6	700	2.50	0.53	0.01	0.02	32.2	1.5	73
TRD000596		2.01		0.012		0.04	4.63	131.0	270	1.66	0.27	0.01	0.02	57.5	1.5	41
TRD000597		1.93		0.026		0.02	7.43	85.0	560	2.41	0.62	0.01	0.02	43.3	3.6	64
TRD000598		1.88		0.005		0.02	8.35	5.1	530	2.76	0.39	<0.01	0.10	217	12.1	66
TRD000599		1.44		0.006		0.07	8.22	20.2	560	2.40	0.40	0.01	0.16	214	10.7	67
TRD000600		1.38		0.007		0.06	8.32	14.3	590	2.59	0.55	0.01	0.70	109.5	18.5	71
TRD000601		1.46		0.007		0.03	7.77	2.5	510	2.47	0.25	<0.01	0.08	74.1	14.2	68
TRD000602		0.85		0.009		0.03	8.24	26.4	580	2.66	0.37	0.01	0.10	141.5	13.2	71
TRD000603		1.26		0.013		0.03	8.09	4.9	550	2.55	0.19	<0.01	0.05	94.9	12.3	68
TRD000604		1.24		0.009		0.03	8.31	1.4	580	2.75	0.37	<0.01	0.02	72.8	7.5	69
TRD000605		1.46		0.008		0.04	8.34	14.3	600	2.84	0.38	<0.01	0.03	74.0	11.3	69
TRD000606		1.37		0.005		0.03	8.55	23.6	580	2.88	0.54	<0.01	<0.02	61.2	8.6	71
TRD000607		1.10		0.006		0.01	8.41	3.0	590	2.56	0.41	0.01	<0.02	49.1	5.7	71
TRD000608		1.21		0.008		0.01	8.17	2.5	620	2.42	0.33	0.01	<0.02	37.7	4.4	68
TRD000609		1.35		0.012		0.01	8.15	2.1	700	2.47	0.24	0.01	0.02	42.4	4.9	68
TRD000610		1.00		0.304		0.03	8.08	3.0	800	2.74	0.64	<0.01	<0.02	56.3	5.5	67
TRD000611		1.26		0.217		0.03	7.09	2.8	550	2.65	1.06	<0.01	0.02	81.0	8.3	64
TRD000612		1.22		0.017		0.01	8.00	0.7	520	2.68	0.19	<0.01	0.02	88.8	10.0	67
TRD000613		0.79	99.7	0.006		0.03	7.75	1.4	670	2.32	0.37	0.01	<0.02	85.0	14.1	55



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000574		5.43	28.9	3.75	21.0	0.16	2.9	0.073	2.07	11.2	22.1	0.32	214	1.30	0.10	13.2
TRD000575		5.27	32.1	4.09	21.6	0.08	3.6	0.067	2.44	31.1	17.4	0.34	286	0.84	0.10	14.2
TRD000576		5.21	34.6	4.02	21.3	0.07	3.2	0.069	2.71	25.7	15.7	0.34	265	0.88	0.10	14.3
TRD000577		5.73	30.3	3.68	21.1	0.06	3.3	0.061	2.68	15.0	16.0	0.37	419	0.35	0.10	14.5
TRD000578		5.60	35.6	2.68	20.9	0.07	3.6	0.076	2.63	21.0	15.5	0.31	246	2.18	0.10	15.6
TRD000579		4.60	34.9	3.61	20.9	0.07	3.0	0.085	2.77	23.5	14.5	0.29	233	0.40	0.10	13.9
TRD000580		5.22	28.9	3.03	20.0	0.06	3.3	0.076	2.55	15.8	15.4	0.28	148	5.70	0.09	14.9
TRD000581		3.97	26.1	2.65	20.3	0.07	3.0	0.066	2.76	20.8	13.1	0.24	213	0.66	0.10	14.7
TRD000582		4.08	21.6	2.90	21.1	0.07	3.2	0.076	2.78	21.4	12.9	0.23	252	0.43	0.11	14.1
TRD000583		3.84	31.7	2.51	20.6	0.07	3.3	0.074	2.91	30.9	13.8	0.25	188	0.61	0.11	14.5
TRD000584		3.67	33.2	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
TRD000585		3.82	30.4	3.30	16.20	0.08	2.8	0.050	1.96	37.7	11.8	0.18	217	0.35	0.08	12.4
TRD000586		1.27	133.5	6.94	15.75	0.07	2.5	0.058	0.74	11.0	10.0	2.39	1210	0.41	1.46	4.7
TRD000587		4.01	34.5	3.03	19.35	0.10	3.0	0.062	2.46	31.5	13.7	0.21	265	0.23	0.10	13.9
TRD000588		3.75	34.3	4.18	20.4	0.10	2.9	0.073	2.53	38.1	26.1	0.20	1365	0.43	0.10	13.7
TRD000589		5.14	39.0	2.60	21.8	0.12	3.4	0.090	2.95	53.8	17.4	0.28	337	2.30	0.11	15.4
TRD000590		4.57	32.7	2.18	20.1	0.11	3.5	0.065	2.66	47.4	14.6	0.25	149	1.50	0.10	14.6
TRD000591		4.16	34.5	3.43	21.3	0.12	3.0	0.066	2.75	48.7	16.6	0.23	480	0.22	0.11	14.6
TRD000592		4.02	37.4	2.77	17.25	0.11	2.8	0.055	1.92	51.4	29.2	0.17	1525	0.28	0.08	12.6
TRD000593		3.60	31.0	3.41	20.8	0.18	2.9	0.067	2.62	86.0	24.8	0.50	761	0.17	0.11	14.1
TRD000594		5.93	37.4	1.82	19.95	0.08	3.4	0.070	2.29	37.6	18.0	0.29	221	5.26	0.08	13.7
TRD000595		4.79	51.9	2.29	22.1	0.06	3.9	0.074	3.04	18.4	16.7	0.30	95	3.51	0.12	14.8
TRD000596		3.24	25.5	1.53	11.95	0.07	2.8	0.030	1.15	29.2	7.7	0.12	141	3.06	0.05	9.7
TRD000597		3.60	47.1	2.48	19.70	0.06	3.2	0.052	2.59	19.1	11.7	0.20	172	0.71	0.11	14.0
TRD000598		3.32	29.4	3.62	20.8	0.16	3.0	0.072	2.58	72.9	22.2	0.37	501	0.18	0.11	14.5
TRD000599		4.47	34.0	3.10	20.9	0.34	3.4	0.067	2.71	202	30.8	0.99	598	0.38	0.11	15.2
TRD000600		4.49	43.2	2.41	21.5	0.14	3.4	0.079	2.96	81.1	27.4	0.84	466	3.58	0.11	15.7
TRD000601		3.91	33.6	3.62	21.4	0.12	3.2	0.070	2.62	49.0	35.8	1.11	766	0.28	0.10	15.6
TRD000602		6.02	38.0	2.72	21.0	0.14	3.2	0.073	2.79	47.2	29.8	0.66	661	5.42	0.10	14.7
TRD000603		5.39	24.3	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
TRD000604		7.32	36.4	4.04	21.3	0.12	3.1	0.064	2.80	51.1	29.2	0.66	500	0.24	0.10	15.3
TRD000605		5.45	43.2	3.89	21.6	0.10	3.2	0.070	2.78	43.4	21.4	0.33	525	0.49	0.10	14.9
TRD000606		4.90	61.8	3.67	22.1	0.11	3.4	0.083	2.84	35.6	17.5	0.29	293	0.98	0.11	16.1
TRD000607		6.04	34.2	4.58	21.3	0.10	3.3	0.072	2.76	34.6	19.2	0.32	270	0.49	0.10	15.1
TRD000608		5.74	27.8	3.99	20.6	0.07	3.3	0.067	2.54	27.6	18.9	0.28	387	0.20	0.09	15.2
TRD000609		6.03	22.9	4.10	20.8	0.09	3.3	0.064	2.85	27.9	18.7	0.33	329	0.28	0.10	15.3
TRD000610		5.43	15.7	5.56	21.9	0.11	3.1	0.070	3.04	29.7	19.6	0.30	279	0.30	0.11	14.7
TRD000611		5.47	15.2	6.04	18.90	0.11	2.8	0.062	2.67	30.0	19.2	0.32	414	0.35	0.09	13.5
TRD000612		7.56	17.1	3.71	20.8	0.14	3.1	0.073	3.21	48.8	31.6	0.76	334	0.23	0.10	16.1
TRD000613		9.80	26.6	3.00	19.45	0.14	3.2	0.048	3.21	38.3	36.3	1.22	731	0.22	0.10	14.1



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000574		18.8	130	17.9	93.4	<0.002	0.05	1.46	9.6	1	3.8	22.0	1.03	0.06	14.25	0.402
TRD000575		14.7	120	22.2	118.5	<0.002	0.04	2.89	13.6	2	3.7	26.0	1.08	0.22	24.7	0.437
TRD000576		13.1	110	22.4	118.5	<0.002	0.03	2.03	13.8	2	3.9	24.8	1.10	0.12	22.6	0.446
TRD000577		20.9	130	26.5	117.5	<0.002	0.03	0.90	14.3	1	3.7	34.3	1.14	<0.05	21.4	0.443
TRD000578		10.6	130	24.3	126.5	<0.002	0.03	1.98	14.3	2	3.9	27.5	1.18	0.05	21.7	0.453
TRD000579		12.4	100	20.3	113.5	<0.002	0.03	1.20	14.0	1	3.9	25.0	1.09	0.05	18.90	0.418
TRD000580		10.0	110	25.9	121.0	<0.002	0.03	3.24	13.6	1	3.7	23.4	1.12	0.07	17.40	0.426
TRD000581		10.6	110	21.5	114.5	<0.002	0.02	1.58	13.8	<1	3.9	27.2	1.09	<0.05	17.95	0.435
TRD000582		10.6	110	21.9	119.0	<0.002	0.02	1.13	14.4	1	3.9	28.8	1.11	0.05	26.5	0.415
TRD000583		14.8	110	20.9	123.0	<0.002	0.02	2.88	14.0	<1	4.1	28.9	1.17	0.06	19.50	0.421
TRD000584		13.3	200	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
TRD000585		18.6	180	27.5	102.5	<0.002	0.02	1.52	12.3	<1	3.2	29.3	0.92	0.06	16.15	0.360
TRD000586		40.0	410	5.5	17.9	<0.002	0.04	0.16	34.5	<1	1.0	140.5	0.31	<0.05	3.02	0.391
TRD000587		20.6	140	24.2	111.5	<0.002	0.02	1.28	14.0	<1	3.6	29.8	1.05	0.05	16.90	0.421
TRD000588		40.4	110	15.8	109.5	<0.002	0.03	1.58	15.0	<1	3.7	30.7	1.03	0.05	18.40	0.410
TRD000589		13.6	110	18.8	144.0	<0.002	0.02	2.58	15.2	<1	4.1	30.4	1.18	0.07	19.80	0.442
TRD000590		10.5	110	15.6	124.5	<0.002	0.02	1.53	13.6	1	3.6	29.9	1.13	0.07	17.45	0.449
TRD000591		21.8	80	11.4	121.0	<0.002	0.02	0.67	14.9	<1	3.8	30.6	1.11	<0.05	17.75	0.424
TRD000592		39.5	120	15.0	100.0	<0.002	0.02	0.91	12.6	<1	3.2	31.0	0.98	0.17	15.65	0.376
TRD000593		30.7	90	10.2	110.0	<0.002	0.02	0.60	14.4	<1	3.7	32.5	1.07	<0.05	17.95	0.408
TRD000594		14.8	140	21.5	113.5	<0.002	0.05	1.46	12.3	1	3.7	27.1	1.08	<0.05	15.45	0.432
TRD000595		11.0	160	14.7	136.0	<0.002	0.02	0.99	15.8	1	4.3	32.2	1.12	0.05	19.05	0.442
TRD000596		9.7	150	12.8	77.2	<0.002	0.02	0.78	8.3	<1	2.3	37.9	0.77	0.05	12.85	0.301
TRD000597		15.6	130	14.8	118.5	<0.002	0.02	1.04	14.1	<1	4.3	41.4	1.06	0.09	16.05	0.418
TRD000598		29.8	110	9.4	105.5	<0.002	0.01	0.59	14.4	<1	3.8	37.6	1.09	0.05	17.30	0.432
TRD000599		26.9	100	14.2	129.5	<0.002	0.02	0.63	14.3	<1	4.2	30.0	1.11	<0.05	18.10	0.437
TRD000600		33.7	110	16.0	140.0	<0.002	0.26	1.44	14.7	1	4.1	31.9	1.17	0.05	18.65	0.464
TRD000601		33.6	100	9.6	98.4	<0.002	0.03	0.70	13.6	<1	4.1	29.0	1.15	<0.05	13.80	0.447
TRD000602		37.6	110	19.2	136.0	<0.002	0.02	0.79	14.1	1	3.9	27.6	1.10	0.06	16.05	0.465
TRD000603		35.2	100	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
TRD000604		29.0	90	9.0	158.5	<0.002	0.01	0.49	14.7	<1	4.2	29.0	1.09	0.05	17.65	0.445
TRD000605		22.4	90	26.0	142.5	<0.002	0.02	0.67	14.8	<1	4.1	26.6	1.09	<0.05	16.95	0.442
TRD000606		18.9	90	30.3	138.0	<0.002	0.02	0.70	15.4	<1	4.3	33.1	1.19	<0.05	18.30	0.463
TRD000607		20.0	90	16.6	149.5	<0.002	0.02	0.63	15.2	<1	4.0	27.8	1.12	0.06	18.55	0.443
TRD000608		17.4	110	13.2	139.5	<0.002	0.02	1.20	14.6	<1	3.7	32.7	1.11	<0.05	18.15	0.449
TRD000609		16.6	90	12.8	156.5	<0.002	0.02	0.89	15.0	<1	3.9	34.8	1.11	0.05	19.10	0.458
TRD000610		15.0	80	12.0	157.0	<0.002	0.02	0.94	15.6	<1	4.9	38.9	1.17	0.27	18.20	0.420
TRD000611		20.3	90	11.8	147.0	<0.002	0.02	0.71	14.1	<1	3.5	27.3	0.95	0.46	16.35	0.393
TRD000612		33.2	80	12.4	189.5	<0.002	0.01	0.50	14.3	<1	4.0	35.5	1.15	0.05	17.80	0.426
TRD000613		33.4	90	15.0	180.5	<0.002	0.01	0.69	12.8	<1	3.8	31.8	1.15	<0.05	16.00	0.396



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000574		0.52	2.2	99	11.7	8.3	55	102.0
TRD000575		0.57	3.1	113	4.0	17.1	46	126.0
TRD000576		0.57	2.9	108	3.6	14.8	56	119.0
TRD000577		0.56	2.8	96	2.8	13.3	73	118.0
TRD000578		0.55	4.0	162	3.8	15.0	73	131.5
TRD000579		0.51	2.7	99	3.2	14.9	111	107.0
TRD000580		0.58	4.0	108	3.1	13.6	65	122.0
TRD000581		0.50	3.0	95	3.4	12.1	85	110.5
TRD000582		0.54	2.6	93	4.2	12.8	75	116.5
TRD000583		0.56	3.0	106	4.3	15.0	50	117.0
TRD000584		0.47	2.9	84	5.5	18.9	42	118.0
TRD000585		0.50	2.6	72	4.5	15.4	44	106.5
TRD000586		0.19	0.8	221	0.4	20.6	85	98.7
TRD000587		0.52	2.8	86	4.4	15.4	46	111.5
TRD000588		1.06	2.7	89	3.3	16.9	67	106.5
TRD000589		0.73	4.2	106	3.3	23.3	58	127.5
TRD000590		0.58	3.7	124	2.9	22.7	83	125.5
TRD000591		0.63	2.6	93	3.0	22.8	113	111.0
TRD000592		0.77	3.1	77	5.6	24.5	79	99.8
TRD000593		0.67	2.4	90	3.2	29.3	141	105.0
TRD000594		0.60	4.3	112	2.7	21.1	53	123.5
TRD000595		0.59	4.4	170	3.2	17.2	33	143.0
TRD000596		0.35	2.6	56	3.6	12.9	34	99.0
TRD000597		0.47	3.2	88	4.5	12.3	55	117.0
TRD000598		0.51	2.4	91	2.9	30.4	132	112.5
TRD000599		0.54	2.9	98	2.9	55.1	164	119.5
TRD000600		0.60	3.8	137	3.0	36.8	150	126.0
TRD000601		0.52	2.4	96	3.8	32.8	147	122.5
TRD000602		0.70	4.2	123	3.0	35.7	113	120.0
TRD000603		0.59	2.4	95	3.0	35.8	141	113.0
TRD000604		0.72	2.7	96	2.8	33.8	135	120.0
TRD000605		0.71	3.3	99	3.1	24.2	82	119.0
TRD000606		0.59	3.9	102	3.1	22.2	71	127.5
TRD000607		0.62	2.8	94	3.2	23.3	88	119.5
TRD000608		0.56	3.0	93	2.8	19.9	71	124.5
TRD000609		0.64	3.0	93	3.5	19.3	67	124.5
TRD000610		0.81	3.0	88	8.0	21.9	55	115.5
TRD000611		1.01	2.9	85	6.4	23.1	70	108.5
TRD000612		0.80	2.4	92	4.3	26.0	107	118.0
TRD000613		0.98	3.9	85	3.5	22.8	114	117.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000614		0.79		0.006		0.04	7.61	0.8	590	2.23	0.34	0.01	<0.02	78.2	14.5	62
TRD000615		1.24		0.005		0.03	7.80	0.8	580	2.36	0.37	0.01	0.02	90.9	15.6	64
TRD000616		0.66		0.010		0.05	7.96	1.2	210	0.66	0.03	6.55	0.09	25.2	39.1	4
TRD000617		0.06		1.080		0.28	6.88	48.1	130	0.34	0.04	6.99	0.48	11.25	40.4	120
TRD000618		0.19		0.016		<0.01	0.17	2.1	10	0.08	0.01	0.01	<0.02	3.11	0.9	13
TRD000619		0.06		>10.0	23.6	1.37	6.13	3720	530	2.13	0.62	0.79	0.07	63.0	11.9	99
TRD000620		0.06		3.16		0.22	7.50	659	690	2.08	0.34	0.78	0.05	75.3	13.7	128
TRD000621		1.22		0.008		0.05	7.82	0.8	630	2.38	0.34	0.01	0.02	87.2	17.6	66
TRD000622		1.04		0.006		0.03	7.67	0.9	630	2.42	0.35	0.03	0.06	77.8	12.8	62
TRD000623		0.93		0.009		0.02	7.68	0.7	560	2.33	0.39	0.01	0.02	82.8	13.0	61
TRD000624		0.87		0.005		0.03	8.16	0.5	550	3.04	0.43	0.01	<0.02	84.7	14.3	60
TRD000625		0.94		0.006		0.03	8.17	0.7	530	3.24	0.42	0.04	0.02	81.0	14.6	61
TRD000626		1.15		0.005		0.02	8.11	0.8	570	2.87	0.28	0.05	<0.02	84.7	14.4	64
TRD000627		1.23		0.006		0.03	7.85	1.0	550	2.77	0.44	0.07	0.02	83.7	15.0	65
TRD000628		1.16		0.006		0.03	7.76	1.4	590	2.82	0.26	0.08	<0.02	92.9	15.2	64
TRD000629		1.55		0.008		0.01	7.96	1.8	590	2.92	0.34	0.09	<0.02	93.6	14.7	66
TRD000630		1.17		0.005		0.02	7.81	0.9	560	2.97	0.43	0.09	0.02	87.0	15.1	66
TRD000631		1.56		0.005		0.01	7.99	1.5	580	2.83	0.31	0.09	0.02	89.5	15.2	67
TRD000632		1.29		0.010		0.02	7.79	1.1	540	2.99	0.27	0.08	0.02	96.3	16.0	68
TRD000633		1.31		0.007		0.03	8.09	0.9	570	2.90	0.14	0.07	0.02	91.5	16.1	68
TRD000634		1.46		0.017		0.09	7.30	1.3	550	2.99	0.39	0.04	0.05	90.4	17.1	64
TRD000635		0.90		0.013		0.11	7.10	1.6	690	3.52	0.57	0.02	0.03	90.8	17.6	62
TRD000636		0.77		0.006		0.03	7.46	0.7	550	2.89	0.43	0.01	<0.02	86.2	14.8	62
TRD000637		1.06		0.014		0.03	7.43	0.8	530	3.02	0.23	0.02	0.02	87.8	15.8	63
TRD000638		1.06		0.055		0.03	7.72	3.4	650	3.37	0.40	0.02	0.02	90.1	17.2	61
TRD000639		1.24		0.128		0.04	8.68	2.6	830	3.42	0.31	0.02	0.03	91.9	23.7	47
TRD000640		0.67		0.009		0.04	7.98	1.0	590	2.94	0.39	0.01	0.03	95.3	15.6	58
TRD000641		0.72		0.006		0.04	7.52	0.6	520	2.71	0.24	0.01	<0.02	76.2	13.2	61
TRD000642		0.75		0.008		0.03	7.63	0.6	490	2.79	0.34	0.01	<0.02	83.2	10.2	63
TRD000643		0.47		0.006		0.02	8.05	0.9	500	2.96	0.48	0.01	<0.02	85.8	7.2	69
TRD000644		1.18		<0.005		0.02	7.80	0.7	500	3.03	0.38	0.01	<0.02	65.2	7.2	66
TRD000645		1.12		0.006		0.05	8.08	1.2	210	0.84	0.03	6.79	0.09	27.1	39.6	4
TRD000646		0.60		0.007		0.02	8.10	0.6	510	2.83	0.35	0.01	<0.02	73.5	6.7	69
TRD000647		0.70		<0.005		0.02	7.89	0.7	510	3.14	0.36	0.01	0.02	129.5	14.5	66
TRD000648		0.71		0.006		0.02	8.13	0.5	510	3.34	0.39	0.03	<0.02	138.5	19.3	68
TRD000649		0.71		0.006		0.03	8.28	1.1	580	2.87	0.62	0.01	0.02	122.5	22.1	64
TRD000650		0.46		<0.005		0.03	7.83	1.3	560	2.85	0.41	0.01	0.02	52.9	12.5	59
TRD000651		0.77		0.008		0.05	7.90	2.2	770	2.89	0.29	0.04	0.04	92.6	16.9	65
TRD000652		0.58		0.007		0.02	7.96	0.8	580	2.87	0.17	0.08	0.02	90.7	15.2	68
TRD000653		0.74	98.5	0.028		0.02	7.85	0.8	570	2.65	0.37	0.10	0.02	86.3	14.5	66



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000614		11.20	21.7	3.42	19.85	0.13	3.0	0.073	3.29	44.9	34.4	1.32	768	0.24	0.10	14.4
TRD000615		11.10	19.1	3.50	20.0	0.12	3.1	0.069	3.32	51.0	34.5	1.34	655	0.25	0.11	14.4
TRD000616		1.29	132.0	6.98	16.75	0.09	2.6	0.058	0.78	12.0	11.2	2.50	1235	0.39	1.48	5.0
TRD000617		0.72	163.5	7.56	15.15	0.14	1.4	0.067	0.37	4.8	11.0	3.78	1305	0.97	1.66	3.1
TRD000618		0.17	6.5	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
TRD000619		8.11	52.1	3.22	16.15	0.10	2.8	0.048	2.49	31.7	37.1	1.19	331	1.30	0.48	10.8
TRD000620		8.57	29.4	3.83	19.15	0.14	3.5	0.072	2.80	36.9	41.1	1.51	339	0.65	0.71	13.6
TRD000621		8.75	45.7	3.48	19.65	0.10	3.2	0.060	3.19	45.4	33.3	1.28	641	0.28	0.11	14.6
TRD000622		8.76	25.2	3.44	19.90	0.12	3.1	0.058	3.19	39.9	34.4	1.20	481	0.27	0.13	14.2
TRD000623		8.87	23.0	3.04	19.40	0.11	3.0	0.068	3.17	42.3	38.4	1.14	479	0.25	0.11	13.7
TRD000624		12.30	23.1	3.89	20.8	0.12	3.1	0.064	3.43	41.9	43.1	1.34	803	0.26	0.11	14.0
TRD000625		12.75	23.8	4.70	19.95	0.11	3.0	0.069	3.48	39.2	40.3	1.46	1215	0.27	0.16	13.4
TRD000626		11.05	18.8	4.46	20.8	0.12	3.1	0.066	3.43	42.5	38.5	1.38	1095	0.35	0.22	13.7
TRD000627		11.10	30.8	4.20	20.4	0.10	3.1	0.069	3.19	41.3	38.7	1.38	1470	0.35	0.30	14.9
TRD000628		9.11	18.2	4.23	20.3	0.23	3.5	0.062	3.32	46.2	36.8	1.27	914	0.76	0.32	14.7
TRD000629		8.68	15.4	4.43	21.2	0.19	3.3	0.078	3.35	46.4	36.7	1.26	925	0.49	0.34	15.2
TRD000630		9.77	20.2	4.35	21.0	0.27	3.3	0.065	3.27	41.4	39.8	1.34	1140	0.45	0.43	14.8
TRD000631		8.87	14.6	4.36	21.3	0.26	3.2	0.074	3.41	44.0	37.9	1.29	893	0.47	0.40	15.3
TRD000632		9.60	20.9	4.03	21.3	0.28	3.2	0.062	3.28	47.4	39.1	1.32	874	0.45	0.40	15.4
TRD000633		9.34	42.1	4.09	22.2	0.30	3.2	0.070	3.39	44.6	41.0	1.42	903	0.38	0.33	15.4
TRD000634		7.58	178.5	3.29	20.4	0.29	3.2	0.079	2.70	43.9	43.6	1.38	1180	0.51	0.41	15.2
TRD000635		7.83	204	3.15	19.15	0.27	3.4	0.057	2.61	44.8	48.0	1.19	859	0.55	0.34	14.7
TRD000636		6.33	50.3	3.98	20.2	0.27	3.2	0.076	3.09	41.8	45.1	1.27	974	1.08	0.13	14.2
TRD000637		9.84	20.8	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
TRD000638		12.70	25.1	3.86	21.2	0.27	3.1	0.066	3.06	46.7	52.7	1.76	1430	0.37	0.14	14.4
TRD000639		15.30	46.4	3.17	21.2	0.26	3.6	0.062	3.31	44.0	54.3	1.83	1275	0.31	0.14	14.9
TRD000640		12.45	39.4	3.19	20.4	0.25	3.3	0.062	3.20	47.8	46.1	1.56	777	0.26	0.11	14.9
TRD000641		9.30	28.2	3.43	20.4	0.25	3.2	0.070	3.23	39.2	38.0	1.19	491	0.32	0.11	14.5
TRD000642		8.09	32.0	3.24	20.7	0.21	3.2	0.063	3.19	40.5	42.6	0.85	348	0.30	0.11	15.3
TRD000643		8.39	25.7	3.06	22.1	0.24	3.5	0.079	3.32	42.4	39.8	0.64	235	0.24	0.12	17.1
TRD000644		8.20	20.9	3.08	22.5	0.25	3.3	0.079	3.47	29.7	39.7	0.61	207	0.24	0.12	16.9
TRD000645		1.35	137.5	7.10	17.70	0.31	2.8	0.054	0.78	12.8	12.2	2.50	1260	0.47	1.53	5.0
TRD000646		8.54	22.4	3.06	22.2	0.27	3.2	0.067	3.35	38.4	37.3	0.60	226	0.33	0.12	16.3
TRD000647		9.37	22.0	3.43	21.2	0.25	3.3	0.079	3.16	38.8	38.6	0.61	569	0.33	0.11	16.3
TRD000648		9.32	25.3	3.99	21.9	0.25	3.4	0.073	3.28	37.6	36.2	0.57	812	0.35	0.12	16.8
TRD000649		10.35	31.5	3.78	21.9	0.42	3.6	0.061	3.23	34.7	39.8	0.61	1390	0.33	0.11	15.7
TRD000650		14.50	40.2	3.84	21.5	0.39	3.4	0.067	3.06	29.6	37.7	1.19	1195	0.25	0.14	15.1
TRD000651		9.88	71.4	3.77	20.8	0.28	3.1	0.068	3.03	51.1	41.3	1.40	925	0.39	0.29	15.4
TRD000652		9.10	30.4	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
TRD000653		7.51	16.5	4.22	20.9	0.25	3.2	0.066	2.96	41.6	43.4	1.31	1035	0.47	0.40	15.1



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000614		33.2	90	14.7	203	<0.002	0.01	0.59	13.6	<1	3.8	33.3	1.06	<0.05	15.85	0.411
TRD000615		33.9	90	16.5	215	<0.002	0.01	0.49	14.0	<1	3.7	34.6	1.06	<0.05	17.25	0.425
TRD000616		41.4	420	5.5	27.0	<0.002	0.05	0.11	37.7	1	1.0	143.5	0.31	<0.05	3.29	0.395
TRD000617		84.2	420	20.3	10.5	<0.002	0.33	1.14	40.2	1	0.9	184.5	0.18	0.10	0.79	0.596
TRD000618		4.6	10	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
TRD000619		43.9	490	30.6	147.5	<0.002	0.76	3530	11.4	1	3.2	95.3	0.78	<0.05	11.45	0.355
TRD000620		59.8	580	18.8	154.0	<0.002	0.15	624	14.8	<1	3.4	98.9	0.96	<0.05	13.65	0.471
TRD000621		37.2	90	13.9	184.0	<0.002	0.01	0.54	12.8	<1	3.8	44.4	1.11	<0.05	18.70	0.420
TRD000622		33.1	80	13.9	195.0	<0.002	0.02	0.97	13.3	<1	3.7	42.2	1.01	<0.05	16.60	0.416
TRD000623		32.6	80	15.4	186.5	<0.002	0.05	1.14	13.5	<1	3.8	35.2	1.02	0.06	16.45	0.414
TRD000624		36.2	100	17.6	218	<0.002	0.03	0.98	15.8	<1	3.7	39.5	1.01	<0.05	16.80	0.463
TRD000625		36.3	200	18.0	223	<0.002	0.02	0.61	15.3	<1	3.6	43.7	0.97	<0.05	15.70	0.463
TRD000626		35.7	270	16.0	205	<0.002	0.02	0.67	15.2	<1	3.7	44.1	1.06	<0.05	16.55	0.443
TRD000627		35.6	320	17.4	203	<0.002	0.02	0.75	14.1	<1	3.8	44.4	1.09	<0.05	17.65	0.427
TRD000628		38.8	400	15.6	189.5	<0.002	0.02	0.84	14.0	<1	3.8	44.3	1.14	<0.05	17.75	0.421
TRD000629		37.5	410	12.9	194.0	0.002	0.02	0.66	14.8	1	3.7	43.9	1.18	<0.05	17.20	0.433
TRD000630		37.9	430	14.6	195.5	<0.002	0.02	0.69	14.4	<1	3.7	43.9	1.19	<0.05	17.00	0.427
TRD000631		39.4	430	12.1	202	<0.002	0.02	0.57	14.7	<1	3.9	46.3	1.19	<0.05	17.50	0.428
TRD000632		38.9	400	11.8	199.5	<0.002	0.02	0.62	14.2	<1	3.9	45.8	1.14	<0.05	17.35	0.420
TRD000633		38.8	350	9.9	202	<0.002	0.02	0.51	15.0	<1	3.9	43.0	1.17	<0.05	17.10	0.429
TRD000634		35.3	180	12.6	163.5	<0.002	0.03	0.76	13.4	1	3.7	46.6	1.14	0.06	16.35	0.419
TRD000635		40.9	100	17.4	191.5	<0.002	0.04	0.77	13.0	<1	3.5	49.7	1.17	0.13	17.15	0.414
TRD000636		35.1	70	12.6	181.0	<0.002	0.02	0.76	13.4	1	3.8	37.1	1.07	<0.05	16.15	0.398
TRD000637		36.0	90	12.2	201	<0.002	0.02	0.57	13.3	<1	3.7	34.5	1.07	<0.05	16.20	0.399
TRD000638		36.8	100	15.4	229	<0.002	0.03	0.73	14.6	<1	3.6	31.6	1.09	0.09	17.15	0.403
TRD000639		41.8	110	21.2	226	<0.002	0.03	0.96	13.8	<1	3.9	30.7	1.34	<0.05	21.3	0.379
TRD000640		34.8	110	17.0	226	<0.002	0.02	0.61	13.6	1	3.9	33.6	1.22	<0.05	18.60	0.402
TRD000641		35.4	90	12.6	202	<0.002	0.01	0.67	13.4	<1	3.6	29.3	1.10	<0.05	16.75	0.398
TRD000642		30.0	80	16.8	188.5	<0.002	0.01	1.02	13.6	<1	3.9	26.6	1.15	<0.05	16.50	0.412
TRD000643		22.8	90	16.6	193.5	<0.002	0.01	1.40	14.6	<1	4.0	29.6	1.33	0.05	17.65	0.435
TRD000644		24.0	90	16.4	183.0	<0.002	0.01	1.34	14.4	<1	4.1	28.5	1.30	<0.05	14.20	0.438
TRD000645		41.9	430	5.8	22.3	0.002	0.05	0.15	41.0	<1	1.1	146.5	0.36	<0.05	3.37	0.415
TRD000646		23.6	100	16.8	190.0	<0.002	0.01	1.05	15.0	1	4.0	27.8	1.25	<0.05	16.80	0.442
TRD000647		36.4	130	18.6	198.5	<0.002	0.01	0.87	14.0	1	4.0	42.7	1.20	0.05	17.15	0.437
TRD000648		42.2	110	14.4	200	<0.002	0.01	0.53	14.9	<1	4.2	37.6	1.31	0.07	17.45	0.431
TRD000649		47.1	110	15.8	206	<0.002	0.01	0.66	13.6	<1	4.0	34.0	1.26	<0.05	20.3	0.419
TRD000650		33.3	130	18.2	179.5	<0.002	0.01	0.78	13.5	1	3.9	29.5	1.17	<0.05	15.85	0.412
TRD000651		38.8	240	13.1	194.5	<0.002	0.02	0.46	14.0	<1	3.7	60.9	1.15	<0.05	16.80	0.422
TRD000652		37.6	420	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
TRD000653		38.7	470	11.0	175.5	<0.002	0.02	0.51	14.0	<1	3.7	34.5	1.16	0.12	16.45	0.427



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000614		1.04	2.6	89	2.8	26.5	121	114.5
TRD000615		0.96	2.6	90	2.8	29.4	138	120.0
TRD000616		0.20	0.9	218	0.5	22.6	86	106.0
TRD000617		0.17	0.2	265	23.6	19.3	141	53.3
TRD000618		<0.02	0.2	3	0.2	1.2	6	9.8
TRD000619		0.75	2.2	79	7.1	17.6	89	114.5
TRD000620		0.75	2.4	106	2.6	17.1	103	134.0
TRD000621		0.82	2.9	86	2.9	24.8	150	115.5
TRD000622		0.90	2.4	88	2.9	23.0	98	113.0
TRD000623		0.94	2.9	91	5.0	24.5	85	112.0
TRD000624		1.07	2.4	101	4.1	35.3	98	117.0
TRD000625		1.06	2.2	102	2.8	30.2	108	123.0
TRD000626		0.98	2.3	101	2.8	26.2	104	111.5
TRD000627		0.96	2.5	93	2.6	23.8	106	115.5
TRD000628		1.01	2.5	89	3.0	24.5	102	117.0
TRD000629		0.95	2.6	93	3.2	25.3	102	121.5
TRD000630		1.01	2.6	89	2.8	21.5	105	116.0
TRD000631		1.01	2.5	91	3.2	24.5	104	119.0
TRD000632		1.05	2.4	88	3.0	25.2	103	116.5
TRD000633		1.04	2.4	95	3.1	23.2	113	118.0
TRD000634		0.78	3.0	85	3.0	21.6	110	120.0
TRD000635		1.05	3.6	83	2.9	22.9	103	124.5
TRD000636		0.89	2.6	85	3.6	20.1	95	112.5
TRD000637		1.02	2.4	86	3.4	22.8	103	115.5
TRD000638		1.29	3.0	91	3.3	23.8	110	116.5
TRD000639		1.45	4.9	83	3.8	22.4	96	122.0
TRD000640		1.22	4.3	84	3.4	23.9	91	119.0
TRD000641		1.01	3.6	87	3.9	20.5	91	114.5
TRD000642		0.82	3.2	88	5.4	22.1	85	114.5
TRD000643		0.86	3.0	91	6.7	22.1	67	124.0
TRD000644		0.88	2.6	92	6.1	18.3	69	118.0
TRD000645		0.22	0.9	230	0.4	22.1	89	107.0
TRD000646		0.93	2.8	94	6.3	20.8	69	122.0
TRD000647		1.00	2.7	92	3.8	21.6	95	123.0
TRD000648		1.00	2.7	91	3.4	20.1	111	122.5
TRD000649		1.17	4.0	87	3.2	18.2	106	118.0
TRD000650		1.17	3.9	94	2.6	17.1	127	117.5
TRD000651		0.97	3.0	89	2.9	31.9	119	118.0
TRD000652		0.93	2.6	91	3.1	24.8	104	115.0
TRD000653		0.78	2.5	90	3.5	25.5	91	118.5



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000654		0.99		0.006		0.01	8.12	0.8	510	2.87	0.11	0.11	<0.02	98.9	13.8	69
TRD000655		1.08		0.015		0.07	8.22	10.2	450	2.84	0.52	0.12	0.06	95.5	29.5	70
TRD000656		1.49		0.015		0.05	7.85	4.3	480	2.84	0.34	0.09	0.05	84.3	18.2	67
TRD000657		0.39		0.005		0.01	7.11	0.9	460	2.97	0.24	0.10	0.02	63.2	13.2	67
TRD000658		2.06		0.009		0.06	7.61	5.1	490	2.73	0.28	0.10	0.04	92.4	15.9	63
TRD000659		2.55		0.006		0.02	7.98	1.0	540	3.11	0.24	0.12	<0.02	87.4	15.6	67
TRD000660		2.53		0.005		0.02	8.33	0.7	1010	3.34	0.22	0.11	0.02	76.0	18.3	54
TRD000661		2.63		0.006		0.02	7.67	0.8	570	2.95	0.37	0.12	0.03	79.8	15.7	65
TRD000662		1.46		0.007		0.02	7.75	0.6	540	2.50	0.45	0.13	0.03	69.4	15.0	64
TRD000663		1.63		<0.005		0.02	7.87	0.5	580	2.55	0.32	0.13	0.02	60.8	15.2	68
TRD000664		1.42		0.007		0.02	7.97	0.7	520	2.92	0.46	0.12	0.02	90.0	16.2	67
TRD000665		1.06		0.007		0.02	8.02	0.7	490	2.74	0.28	0.12	<0.02	92.9	15.7	70
TRD000666		1.21		0.008		0.03	8.01	1.4	510	2.66	0.30	0.13	0.02	87.5	16.3	68
TRD000667		NSS														
TRD000668		0.23		0.013		0.04	7.10	37.2	480	1.66	0.52	0.05	0.02	44.2	5.6	81
TRD000669		0.55		0.100		0.04	5.69	27.9	340	1.18	2.37	0.02	<0.02	71.0	2.8	51
TRD000670		0.83		0.088		0.04	4.67	24.2	320	1.04	3.40	0.02	<0.02	68.9	2.3	44
TRD000671		1.16		0.409		0.04	4.23	18.6	310	0.91	3.30	0.01	<0.02	59.8	1.5	42
TRD000672		2.48		0.019		0.05	8.15	1.3	220	0.74	0.04	6.55	0.08	29.8	40.2	5
TRD000673		0.45		0.024		0.03	4.08	12.7	320	0.89	0.54	0.02	<0.02	59.5	2.2	41
TRD000674		1.50		0.142		0.03	4.18	26.5	260	1.18	0.44	0.02	<0.02	65.6	1.7	41
TRD000675		2.01		0.021		0.03	5.46	22.2	390	1.48	0.37	0.01	0.02	58.0	1.9	48
TRD000676		1.48		0.019		0.03	5.23	32.4	390	1.46	0.35	0.01	<0.02	56.0	1.8	47
TRD000677		1.41		0.026		0.03	6.98	66.7	630	2.08	0.23	0.01	<0.02	43.2	1.5	62
TRD000678		0.91		0.038		0.04	4.44	51.7	350	1.42	0.26	0.01	<0.02	46.8	1.5	42
TRD000679		1.26		0.032		0.05	3.84	68.0	280	1.30	0.19	0.01	<0.02	49.7	1.6	40
TRD000680		1.39		0.706		0.16	4.56	214	250	1.68	0.38	0.01	0.02	60.0	2.1	59
TRD000681		2.19		0.259		0.07	6.66	96.8	490	2.03	0.47	0.01	<0.02	59.9	1.7	61
TRD000682		1.25		0.026		0.05	8.17	18.1	730	2.66	0.48	0.01	<0.02	93.0	2.0	73
TRD000683		1.52		0.017		0.05	8.11	15.0	750	2.84	0.48	<0.01	0.02	76.6	3.4	73
TRD000684		1.51		0.017		0.04	6.51	16.2	590	2.06	0.33	0.01	<0.02	54.0	2.9	58
TRD000685		1.59		0.013		0.04	6.50	6.0	630	2.03	0.23	0.01	<0.02	45.7	3.3	60
TRD000686		1.39		0.012		0.05	7.00	16.0	620	2.12	0.31	0.01	<0.02	73.0	2.4	60
TRD000687		1.98		0.041		0.18	5.11	63.1	390	1.74	0.47	0.01	<0.02	56.5	2.3	50
TRD000688		1.80		0.055		0.07	4.91	107.5	370	1.72	0.24	0.01	0.02	60.6	2.2	53
TRD000689		1.55		0.025		0.06	4.37	67.6	360	1.58	0.42	0.01	<0.02	57.2	2.1	44
TRD000690		1.68		0.018		0.04	4.03	49.3	290	1.42	0.15	0.01	<0.02	64.5	2.1	40
TRD000691		1.68		0.008		0.04	6.73	21.6	650	2.12	0.18	0.01	<0.02	59.9	3.2	56
TRD000692		1.72		0.103		0.07	4.69	22.1	370	1.58	0.20	0.01	0.03	85.3	2.8	46
TRD000693		2.61	95.7	0.016		0.06	5.15	25.8	450	1.74	0.21	0.01	0.02	71.2	3.5	46



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000654		8.70	17.8	4.46	22.0	0.25	3.3	0.066	3.14	47.7	43.2	1.42	1035	0.48	0.49	16.0
TRD000655		6.42	43.2	3.72	21.8	0.25	3.2	0.073	2.76	47.4	39.1	1.54	1250	4.25	0.82	15.7
TRD000656		7.10	62.9	3.90	21.2	0.25	3.2	0.077	2.83	40.2	38.5	1.42	1080	1.48	0.57	15.2
TRD000657		8.99	16.0	4.22	20.3	0.28	3.1	0.081	3.02	28.9	38.7	1.22	943	0.49	0.53	15.5
TRD000658		7.33	77.0	3.37	19.60	0.23	3.4	0.065	2.67	45.8	36.8	1.21	1010	1.08	0.59	15.1
TRD000659		6.63	26.3	4.24	21.5	0.24	3.1	0.082	3.06	42.5	42.8	1.40	959	0.49	0.40	15.4
TRD000660		11.05	16.0	3.41	21.7	0.27	3.4	0.076	3.43	35.3	44.7	1.31	1420	0.44	0.16	15.6
TRD000661		8.37	22.5	4.24	21.0	0.29	3.0	0.070	3.19	37.5	35.3	1.36	1115	0.49	0.40	14.9
TRD000662		9.34	23.9	4.06	21.0	0.31	3.1	0.074	3.16	32.4	35.1	1.38	1255	0.50	0.42	14.8
TRD000663		8.86	19.4	4.07	21.1	0.24	3.2	0.080	3.24	28.2	33.3	1.38	1175	0.53	0.50	14.8
TRD000664		8.05	19.0	3.84	21.8	0.36	3.2	0.073	3.19	43.9	35.1	1.36	871	0.43	0.49	14.9
TRD000665		8.71	24.0	3.99	21.8	0.35	3.4	0.067	3.14	45.4	38.6	1.39	1040	0.60	0.57	15.6
TRD000666		9.87	31.8	4.03	21.2	0.37	3.3	0.070	3.22	42.9	37.0	1.44	1165	0.63	0.60	15.2
TRD000667																
TRD000668		4.88	15.2	3.50	20.6	0.29	3.5	0.064	1.78	21.8	17.7	0.31	293	1.14	0.14	14.3
TRD000669																
TRD000670		4.10	9.2	1.64	13.75	0.21	3.7	0.039	1.34	36.1	10.2	0.22	125	1.00	0.08	10.7
TRD000671		3.40	8.8	1.19	11.40	0.19	4.5	0.038	1.17	34.6	7.4	0.18	102	0.93	0.07	10.3
TRD000672		2.59	6.9	0.85	9.77	0.24	4.9	0.037	1.00	30.5	4.8	0.13	71	0.88	0.04	10.4
TRD000673		1.59	124.5	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
TRD000674		2.45	7.1	0.79	9.65	0.26	4.4	0.027	0.85	30.4	3.9	0.11	71	0.71	0.04	9.9
TRD000675																
TRD000676		2.83	11.0	0.90	10.20	0.21	4.1	0.036	0.79	33.0	4.6	0.09	68	0.84	0.04	9.8
TRD000677		3.39	8.9	0.80	13.10	0.20	3.8	0.036	1.38	29.4	5.9	0.14	53	0.81	0.06	11.4
TRD000678		3.23	10.1	1.04	12.65	0.17	3.8	0.039	1.32	28.3	6.0	0.13	61	0.71	0.06	11.0
TRD000679		3.28	15.1	1.99	17.65	0.16	4.0	0.061	2.25	21.9	8.5	0.19	42	0.54	0.09	14.2
TRD000680		2.78	11.0	1.45	11.05	0.17	3.5	0.034	1.12	23.5	5.5	0.12	77	0.65	0.05	9.8
TRD000681																
TRD000682		2.50	12.6	1.72	9.66	0.16	3.8	0.030	0.71	26.1	4.3	0.08	87	0.60	0.03	9.2
TRD000683		4.75	23.5	5.60	11.75	0.24	4.3	0.032	1.00	28.0	6.2	0.11	67	0.49	0.04	9.4
TRD000684		5.03	21.5	2.80	17.00	0.27	4.2	0.068	1.80	28.7	9.1	0.18	54	0.45	0.07	13.6
TRD000685		3.63	26.9	2.17	22.1	0.26	3.8	0.077	2.63	42.0	11.2	0.19	36	0.28	0.12	15.9
TRD000686		3.24	38.0	5.09	21.5	0.31	3.5	0.075	2.70	34.3	10.6	0.18	63	0.28	0.12	15.8
TRD000687																
TRD000688		3.02	41.0	4.14	16.40	0.27	3.2	0.065	2.04	24.7	8.4	0.16	71	0.39	0.09	12.9
TRD000689		2.61	32.2	3.53	15.90	0.29	3.5	0.059	2.12	22.8	7.5	0.16	76	0.45	0.09	13.7
TRD000690		3.01	22.7	2.24	18.00	0.30	3.5	0.059	2.20	33.7	9.1	0.17	54	0.34	0.09	13.9
TRD000691		2.97	29.7	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
TRD000692		2.94	34.1	2.86	13.30	0.23	3.0	0.046	1.43	28.0	7.0	0.13	75	0.72	0.06	10.9
TRD000693																
TRD000694		2.73	21.3	2.16	11.85	0.20	3.1	0.041	1.22	28.4	6.5	0.13	85	0.71	0.05	10.0
TRD000695		2.64	15.8	1.44	10.85	0.18	3.3	0.030	1.00	31.2	6.0	0.11	73	0.63	0.04	9.5
TRD000696		2.98	20.4	1.51	17.25	0.24	3.5	0.059	2.23	28.6	8.5	0.17	38	0.46	0.09	13.8
TRD000697		2.69	22.1	1.60	12.75	0.14	3.2	0.046	1.32	30.2	6.8	0.12	64	0.67	0.06	10.6
TRD000698		2.62	19.7	1.41	13.50	0.20	3.4	0.044	1.45	32.2	7.4	0.13	70	0.69	0.06	11.5



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000654		38.4	500	11.0	189.5	<0.002	0.02	0.38	14.7	<1	4.1	31.6	1.21	<0.05	17.70	0.430
TRD000655		47.6	510	41.5	157.5	0.003	0.02	0.46	14.8	<1	4.0	36.8	1.19	0.05	17.45	0.447
TRD000656		39.6	430	20.5	156.5	0.002	0.03	0.54	14.2	1	4.0	38.1	1.15	0.05	16.20	0.427
TRD000657		36.0	490	10.9	156.5	<0.002	0.02	0.53	13.2	<1	3.9	33.6	1.16	<0.05	12.80	0.418
TRD000658		36.6	430	16.6	169.0	<0.002	0.03	0.67	13.1	<1	3.7	57.9	1.16	0.06	16.80	0.426
TRD000659		38.1	520	10.2	178.5	<0.002	0.02	0.52	14.1	<1	4.0	59.7	1.16	<0.05	16.30	0.425
TRD000660		36.9	490	21.7	198.5	<0.002	0.03	0.85	13.4	1	5.6	63.6	1.36	0.05	16.80	0.381
TRD000661		35.9	510	14.8	192.5	<0.002	0.02	0.58	13.8	<1	3.7	55.1	1.12	<0.05	16.10	0.406
TRD000662		35.3	500	18.8	196.0	<0.002	0.02	0.57	13.6	<1	3.9	44.6	1.14	<0.05	17.35	0.405
TRD000663		36.2	530	18.6	191.5	<0.002	0.01	0.81	13.8	<1	4.0	43.8	1.13	<0.05	16.80	0.417
TRD000664		36.3	540	17.5	193.5	<0.002	0.02	0.61	14.3	<1	4.2	43.5	1.15	<0.05	17.80	0.418
TRD000665		35.9	520	15.6	192.0	<0.002	0.02	0.89	14.1	<1	4.2	39.6	1.19	<0.05	17.50	0.424
TRD000666		36.5	550	15.9	201	<0.002	0.02	0.51	14.0	<1	4.2	42.9	1.16	0.06	17.20	0.426
TRD000667																
TRD000668		18.2	200	18.0	98.6	<0.002	0.03	1.40	10.8	1	4.0	36.7	1.06	0.08	16.75	0.391
TRD000669																
TRD000670		11.2	150	16.8	88.6	<0.002	0.02	1.14	7.7	1	2.8	22.5	0.81	0.10	17.15	0.298
TRD000671		9.4	150	19.4	76.3	0.002	0.02	1.08	6.6	1	2.7	25.7	0.79	0.11	14.35	0.292
TRD000672		7.1	140	19.2	62.4	<0.002	0.02	0.91	6.0	<1	2.7	30.7	0.83	0.13	12.90	0.298
TRD000673		43.3	460	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
TRD000674		7.1	180	14.4	49.2	<0.002	0.01	0.73	5.7	1	2.2	46.9	0.77	0.05	14.15	0.293
TRD000675																
TRD000676		8.0	210	16.2	53.2	<0.002	0.02	0.99	5.7	<1	2.2	68.1	0.78	0.05	13.95	0.291
TRD000677		8.4	160	14.9	76.8	<0.002	0.01	0.99	7.5	<1	2.7	46.8	0.89	<0.05	14.10	0.328
TRD000678		8.4	150	14.8	73.5	<0.002	0.02	0.89	7.5	<1	2.7	41.0	0.85	0.05	14.05	0.316
TRD000679		7.6	140	15.1	96.1	<0.002	0.02	0.70	11.2	1	3.6	30.2	1.10	0.06	19.00	0.394
TRD000680		8.2	150	13.7	60.3	<0.002	0.02	0.63	6.9	1	2.0	27.1	0.79	0.08	13.30	0.284
TRD000681																
TRD000682		8.3	190	15.0	47.3	<0.002	0.02	0.61	6.1	<1	2.1	47.6	0.74	0.06	12.60	0.264
TRD000683		9.5	160	14.8	77.8	<0.002	0.03	1.56	8.6	1	2.8	31.2	0.79	0.13	17.25	0.275
TRD000684		9.0	150	16.3	102.0	<0.002	0.02	1.34	10.5	1	3.8	35.5	1.19	0.11	18.20	0.367
TRD000685		13.2	120	17.0	114.5	<0.002	0.02	1.51	14.8	<1	4.4	46.3	1.26	0.06	19.10	0.432
TRD000686		14.2	120	18.2	109.5	<0.002	0.02	0.80	14.6	1	4.0	45.5	1.26	0.06	19.45	0.429
TRD000687																
TRD000688		11.7	120	18.6	88.5	<0.002	0.02	0.65	11.4	1	3.3	34.0	0.98	0.05	15.45	0.363
TRD000689		10.1	120	16.8	91.7	<0.002	0.02	0.57	11.5	1	3.3	33.9	1.03	<0.05	15.95	0.376
TRD000690		11.7	120	16.1	95.1	<0.002	0.02	0.82	12.0	1	3.6	35.3	1.13	<0.05	17.55	0.392
TRD000691		11.2	160	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
TRD000692		11.8	170	13.8	82.6	<0.002	0.02	1.10	8.4	1	3.7	35.2	0.81	0.06	13.15	0.301
TRD000693																
TRD000694		10.0	170	17.6	69.6	<0.002	0.02	1.08	7.5	1	3.3	35.1	0.78	0.06	12.55	0.296
TRD000695		8.6	170	14.9	61.4	<0.002	0.02	0.79	6.4	1	2.6	42.4	0.75	<0.05	12.05	0.285
TRD000696		10.2	140	16.8	92.7	<0.002	0.02	0.77	11.7	<1	3.8	39.6	1.04	<0.05	15.50	0.382
TRD000697		10.6	140	14.6	72.1	<0.002	0.02	0.78	7.5	<1	3.0	34.5	0.83	0.06	12.50	0.304
TRD000698		10.8	150	18.0	72.1	<0.002	0.02	0.78	8.2	<1	2.9	34.4	0.90	<0.05	13.55	0.333



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**CERTIFICATE OF ANALYSIS BU22073881**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000654		0.91	2.3	93	3.2	25.1	102	121.5
TRD000655		0.74	4.7	99	2.8	22.3	102	127.0
TRD000656		0.77	3.1	89	3.0	21.1	101	117.0
TRD000657		1.01	2.4	89	3.0	22.0	90	116.5
TRD000658		0.82	3.8	88	3.3	24.8	90	122.5
TRD000659		0.80	2.4	89	3.5	24.1	97	115.5
TRD000660		1.17	2.4	82	4.5	25.8	102	125.0
TRD000661		0.88	2.4	85	3.3	20.4	100	113.0
TRD000662		0.98	2.4	88	3.2	18.9	96	110.0
TRD000663		0.94	2.4	90	3.1	17.7	97	109.0
TRD000664		0.93	2.6	89	3.5	25.6	98	114.0
TRD000665		0.93	2.6	91	3.3	25.2	99	115.0
TRD000666		1.03	3.0	89	2.9	24.4	102	110.5
TRD000667								
TRD000668		0.47	2.3	81	22.3	15.4	33	119.0
TRD000669		0.43	1.9	59	9.1	15.9	16	122.5
TRD000670		0.36	1.8	48	6.6	14.1	15	142.5
TRD000671		0.27	1.8	39	5.4	13.1	10	166.0
TRD000672		0.19	1.0	226	0.5	24.3	89	112.0
TRD000673		0.24	1.8	37	2.9	14.5	23	148.0
TRD000674		0.26	1.7	38	3.5	14.3	22	136.5
TRD000675		0.36	2.0	51	4.6	13.3	22	129.0
TRD000676		0.31	2.1	50	4.1	13.7	25	128.0
TRD000677		0.37	3.3	76	5.6	16.5	26	133.0
TRD000678		0.23	2.2	45	3.4	14.7	30	122.5
TRD000679		0.22	2.2	40	3.1	15.1	40	134.0
TRD000680		0.35	3.3	55	4.6	15.9	74	147.5
TRD000681		0.46	3.4	70	5.4	14.6	40	140.5
TRD000682		0.48	2.7	92	5.0	16.9	34	128.5
TRD000683		0.40	3.3	92	4.1	17.8	81	123.5
TRD000684		0.34	3.1	72	3.4	14.8	66	113.0
TRD000685		0.29	2.8	72	3.3	14.0	68	124.0
TRD000686		0.37	2.7	75	3.8	14.6	43	122.5
TRD000687		0.31	2.6	55	7.1	13.3	57	100.0
TRD000688		0.30	2.5	55	9.0	13.8	48	107.5
TRD000689		0.29	2.3	47	5.1	13.8	54	105.0
TRD000690		0.24	2.0	43	3.9	15.8	43	109.0
TRD000691		0.33	2.5	73	4.2	14.5	47	120.0
TRD000692		0.25	2.1	50	5.6	13.2	42	109.5
TRD000693		0.29	2.3	54	4.1	15.1	68	115.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000694		1.84		0.005		0.06	4.65	11.0	440	1.42	0.11	0.01	0.02	63.9	3.5	43
TRD000695		1.78		0.005		0.08	4.65	9.1	450	1.22	0.07	0.01	<0.02	59.4	2.9	42
TRD000696		2.30		0.016		0.05	7.79	1.1	210	0.74	0.03	6.30	0.09	29.3	37.6	5
TRD000697		1.41		0.012		0.09	4.01	11.1	360	1.35	0.10	0.01	0.02	61.4	2.2	39
TRD000698		1.57		0.013		0.07	4.68	16.3	390	1.68	0.31	0.01	0.02	66.7	2.4	46
TRD000699		1.94		0.029		0.06	4.77	12.4	360	2.16	0.14	0.02	0.02	64.1	4.1	47
TRD000700		1.89		0.006		0.07	5.72	9.4	510	2.36	0.36	0.01	0.05	85.3	7.1	51
TRD000701		1.81		0.006		0.06	5.13	7.6	410	2.19	0.20	0.01	0.08	94.1	6.8	45
TRD000702		1.78		0.331		0.09	4.41	9.3	300	2.63	0.30	0.01	0.02	86.1	12.0	44
TRD000703		2.23		0.016		0.07	6.16	10.2	530	2.68	0.26	0.01	0.04	97.7	11.7	55
TRD000704		1.36		0.017		0.05	6.81	4.0	600	2.55	0.26	0.01	0.07	94.7	12.3	60
TRD000705		1.61		0.051		0.05	7.36	4.5	650	2.69	0.35	0.01	0.06	100.5	13.8	65
TRD000706		2.73		0.008		0.04	6.13	7.8	490	2.21	0.27	0.01	0.03	87.3	10.0	56
TRD000707		2.10		<0.005		0.04	6.78	12.7	550	2.12	0.29	0.01	0.02	82.0	8.8	63
TRD000708		2.78		0.010		0.04	4.68	10.8	300	1.70	0.13	0.01	<0.02	65.1	3.3	46
TRD000709		2.42		0.007		0.03	4.32	8.3	300	1.37	0.10	0.01	<0.02	71.3	2.9	44
TRD000710		2.33		0.013		0.02	4.81	8.0	370	1.69	0.21	0.01	0.03	80.7	2.8	50
TRD000711		2.53		0.014		0.02	4.38	7.2	320	1.34	0.16	0.01	0.02	88.5	4.9	45
TRD000712		3.38		0.007		0.03	3.96	8.2	270	1.64	0.12	0.01	<0.02	79.4	3.3	43
TRD000713		3.32		0.020		0.03	3.94	7.7	270	1.61	0.13	0.01	0.02	76.3	3.4	41
TRD000714		3.25		0.005		0.03	4.64	7.2	350	1.86	0.10	0.01	0.02	84.2	5.4	48
TRD000715		1.82		<0.005		0.05	6.27	9.1	500	2.20	0.38	0.01	0.03	86.3	14.6	59
TRD000716		2.64		<0.005		0.06	7.36	9.9	570	2.69	0.31	0.01	0.06	84.5	13.5	64
TRD000717		1.46		<0.005		0.08	7.67	16.3	580	2.71	0.40	0.01	0.11	92.8	19.3	68
TRD000718		1.80		<0.005		0.08	7.62	14.1	580	2.95	0.43	0.01	0.23	88.6	18.4	66
TRD000719		1.51		<0.005		0.07	7.58	19.9	580	3.03	0.39	0.01	0.15	84.1	16.9	67
TRD000720		0.72		0.013		0.05	8.03	1.2	220	0.76	0.03	6.54	0.08	28.7	38.3	5
TRD000721		0.20		<0.005		0.01	0.22	1.6	10	0.10	0.02	0.01	<0.02	3.78	1.2	17
TRD000722		0.06		>10.0	23.9	1.38	6.22	3840	540	2.46	0.66	0.83	0.05	68.1	12.4	107
TRD000723		0.07		3.02		0.21	7.21	624	670	2.24	0.34	0.76	0.05	75.9	13.1	130
TRD000724		0.06		1.075		0.29	6.84	51.4	130	0.38	0.04	7.08	0.55	11.55	39.7	122
TRD000725		1.93		<0.005		0.06	7.73	17.1	560	3.03	0.37	0.01	0.09	84.9	16.5	66
TRD000726		1.80		<0.005		0.06	7.86	12.1	580	2.81	0.46	0.02	0.17	85.5	17.9	67
TRD000727		2.05		<0.005		0.08	7.86	9.9	580	3.10	0.49	0.02	0.13	88.9	16.1	68
TRD000728		1.27		0.005		0.15	7.76	15.3	620	2.66	0.53	0.01	0.51	89.8	22.4	70
TRD000729		2.29		<0.005		0.08	7.87	31.6	630	2.74	0.38	0.01	0.25	95.2	18.5	69
TRD000730		1.78	97.9	<0.005		0.12	8.04	26.3	640	2.72	0.51	0.01	0.19	100.5	23.8	68



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000694		2.43	14.8	1.04	12.05	0.17	3.2	0.036	1.32	30.1	6.8	0.13	73	0.92	0.06	10.9
TRD000695		2.47	13.9	1.13	11.60	0.21	3.1	0.035	1.41	29.0	6.3	0.14	75	0.97	0.06	10.6
TRD000696		1.66	117.0	6.92	17.10	0.39	2.9	0.045	0.79	13.9	11.1	2.48	1230	0.41	1.43	5.2
TRD000697		2.40	15.4	1.46	10.70	0.17	2.9	0.027	1.20	28.9	6.8	0.13	64	1.00	0.05	9.4
TRD000698		2.90	22.2	2.10	12.80	0.16	3.2	0.041	1.39	30.4	8.1	0.14	80	1.96	0.05	10.6
TRD000699		2.93	23.7	3.03	12.95	0.20	3.1	0.037	1.36	29.0	10.0	0.14	73	0.83	0.06	10.4
TRD000700		3.16	31.1	2.33	15.60	0.26	3.3	0.054	1.96	40.9	12.3	0.19	56	1.85	0.08	12.4
TRD000701		3.55	24.0	2.07	14.20	0.22	3.0	0.045	1.58	50.7	12.3	0.18	77	1.13	0.06	10.9
TRD000702		3.63	25.1	2.78	12.15	0.18	3.0	0.039	1.24	44.7	12.5	0.15	230	1.06	0.05	9.9
TRD000703		4.32	27.4	2.30	16.90	0.22	3.2	0.053	1.96	56.7	18.7	0.34	223	1.02	0.08	12.8
TRD000704		6.72	24.9	3.36	19.05	0.27	3.1	0.055	2.53	62.1	28.8	0.87	315	0.73	0.10	13.6
TRD000705		7.34	29.3	3.25	20.7	0.32	3.1	0.076	2.91	64.9	31.4	1.00	320	0.66	0.12	14.6
TRD000706		5.84	22.6	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
TRD000707		4.00	27.7	2.31	17.45	0.27	3.6	0.050	2.41	39.9	13.5	0.29	135	0.87	0.10	14.0
TRD000708		3.57	18.6	2.53	12.15	0.18	2.8	0.034	1.33	34.4	8.7	0.19	82	1.35	0.05	10.1
TRD000709		3.02	13.0	1.86	11.35	0.19	2.9	0.031	1.29	36.9	8.2	0.19	96	1.36	0.05	10.0
TRD000710		3.32	15.5	2.44	13.05	0.23	3.4	0.029	1.56	44.4	8.5	0.21	116	1.56	0.06	11.1
TRD000711		3.11	13.0	2.33	11.15	0.26	3.1	0.027	1.32	41.6	7.5	0.15	252	1.54	0.05	10.1
TRD000712		3.01	13.9	2.38	10.75	0.25	3.0	0.028	1.16	42.7	8.5	0.14	148	1.54	0.05	9.5
TRD000713		3.48	13.1	2.29	10.25	0.24	2.8	0.026	1.12	41.2	13.1	0.14	133	1.32	0.05	8.9
TRD000714		5.72	14.6	2.95	12.10	0.27	3.0	0.026	1.46	40.8	20.2	0.32	213	1.30	0.05	10.3
TRD000715		7.23	31.7	2.88	17.55	0.27	3.4	0.043	2.27	42.7	29.4	0.85	512	0.95	0.08	13.3
TRD000716		8.64	28.1	3.40	20.4	0.30	3.3	0.072	2.97	41.7	37.1	1.22	609	0.60	0.11	14.9
TRD000717		9.13	38.4	3.65	20.4	0.34	3.5	0.061	2.96	45.7	39.9	1.33	673	1.26	0.10	15.3
TRD000718		9.56	37.5	3.43	21.6	0.28	3.6	0.067	3.11	43.5	42.0	1.34	655	1.23	0.11	15.7
TRD000719		9.29	36.7	3.61	21.1	0.31	3.4	0.055	3.21	39.6	42.7	1.40	744	0.89	0.11	15.6
TRD000720		1.55	119.5	7.32	17.40	0.38	2.9	0.056	0.82	13.4	11.4	2.45	1235	0.41	1.45	5.2
TRD000721		0.23	8.2	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
TRD000722		8.97	51.3	3.45	17.65	0.40	2.9	0.057	2.56	34.3	40.3	1.22	346	2.19	0.48	11.7
TRD000723		8.70	27.9	3.84	19.35	0.34	3.6	0.065	2.71	38.5	42.1	1.45	328	0.71	0.66	14.1
TRD000724		0.78	158.0	7.77	15.75	0.41	1.5	0.071	0.36	4.9	11.3	3.70	1310	0.85	1.65	3.2
TRD000725		9.74	35.7	4.09	21.1	0.45	3.3	0.073	3.01	42.0	45.3	1.51	965	0.59	0.10	15.5
TRD000726		9.39	35.3	3.87	21.3	0.36	3.3	0.067	3.09	41.4	45.0	1.47	923	0.77	0.10	15.3
TRD000727		10.00	38.7	3.81	22.1	0.39	3.4	0.080	3.05	43.8	47.6	1.42	1105	0.73	0.10	15.6
TRD000728		11.50	38.1	3.47	21.5	0.34	3.7	0.072	3.12	47.4	41.9	1.40	1140	2.24	0.09	16.1
TRD000729		10.30	34.6	3.59	21.9	0.34	3.3	0.058	3.25	49.0	42.5	1.43	1010	0.98	0.10	15.6
TRD000730		11.50	38.4	3.74	22.6	0.37	3.8	0.064	3.20	52.3	44.6	1.50	1255	3.52	0.09	16.2



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22073881**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000694		10.8	130	19.4	64.9	<0.002	0.02	0.61	7.4	<1	2.5	26.2	0.82	<0.05	12.55	0.308
TRD000695		10.6	120	17.3	69.8	<0.002	0.02	0.61	7.8	<1	2.6	25.3	0.82	<0.05	12.10	0.309
TRD000696		40.7	430	5.8	35.2	<0.002	0.04	0.18	39.9	1	1.0	139.5	0.34	<0.05	3.68	0.414
TRD000697		10.4	110	14.6	63.3	<0.002	0.01	0.71	6.8	<1	2.4	21.0	0.72	<0.05	10.80	0.272
TRD000698		10.2	120	15.9	77.7	<0.002	0.02	0.87	8.5	<1	3.2	24.0	0.79	0.08	12.25	0.306
TRD000699		15.7	250	16.4	74.2	<0.002	0.02	0.76	8.6	1	2.7	31.6	0.77	<0.05	12.00	0.292
TRD000700		20.1	170	14.7	90.9	0.002	0.22	0.86	10.2	1	3.1	31.7	0.94	0.06	14.15	0.342
TRD000701		26.4	240	10.5	83.3	<0.002	0.15	0.70	9.2	1	2.6	33.1	0.84	<0.05	13.00	0.316
TRD000702		36.4	400	9.9	79.9	<0.002	0.08	0.72	8.6	1	2.6	35.7	0.77	0.09	11.75	0.282
TRD000703		25.6	210	12.0	100.0	<0.002	0.09	0.58	10.9	<1	3.3	47.5	0.96	<0.05	15.00	0.354
TRD000704		31.9	170	10.4	133.0	<0.002	0.06	0.56	12.2	1	3.4	44.8	0.99	0.05	15.50	0.379
TRD000705		32.6	140	12.4	147.0	<0.002	0.04	0.54	13.0	<1	3.6	48.5	1.10	0.05	16.45	0.394
TRD000706		25.7	140	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
TRD000707		16.7	120	11.4	108.0	<0.002	0.02	0.61	11.8	<1	3.8	34.6	1.06	<0.05	16.45	0.385
TRD000708		11.4	300	8.6	76.8	<0.002	0.02	0.55	8.2	1	2.4	27.8	0.76	<0.05	11.70	0.279
TRD000709		14.0	330	7.2	69.5	<0.002	0.02	0.46	7.9	<1	2.3	22.0	0.75	<0.05	11.00	0.278
TRD000710		10.8	470	8.0	77.0	<0.002	0.02	0.88	9.5	<1	2.8	24.7	0.87	<0.05	12.30	0.305
TRD000711		10.8	360	7.7	67.8	<0.002	0.01	0.63	7.9	<1	2.4	20.0	0.79	<0.05	11.65	0.285
TRD000712		16.0	510	7.8	63.2	<0.002	0.01	0.60	6.8	<1	2.1	19.2	0.72	<0.05	10.40	0.264
TRD000713		19.9	460	7.4	59.3	<0.002	0.01	0.57	6.2	<1	2.0	22.8	0.69	<0.05	10.25	0.269
TRD000714		24.6	510	7.2	84.4	<0.002	0.02	0.50	7.2	<1	2.4	29.8	0.74	<0.05	11.50	0.293
TRD000715		33.5	250	14.8	128.0	0.002	0.18	0.96	10.8	1	3.2	39.8	1.02	<0.05	15.70	0.359
TRD000716		33.5	150	15.6	160.5	<0.002	0.10	0.92	12.9	<1	3.6	39.1	1.11	<0.05	16.45	0.392
TRD000717		42.2	120	23.2	174.0	0.002	0.51	3.09	13.8	1	4.0	37.0	1.14	<0.05	18.15	0.406
TRD000718		41.9	110	21.1	171.5	0.002	0.39	1.92	13.8	1	3.8	32.4	1.19	0.05	18.25	0.414
TRD000719		40.8	100	19.2	172.0	<0.002	0.35	1.38	13.4	1	3.9	30.0	1.17	0.06	16.80	0.411
TRD000720		41.6	420	6.0	30.9	<0.002	0.04	0.18	39.6	1	1.1	143.0	0.34	<0.05	3.66	0.406
TRD000721		6.3	20	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
TRD000722		45.2	490	31.9	148.0	<0.002	0.76	3540	12.0	1	3.4	96.3	0.83	0.06	12.30	0.362
TRD000723		58.5	550	19.0	151.0	<0.002	0.14	586	14.3	1	3.4	94.7	1.01	<0.05	14.00	0.453
TRD000724		83.5	410	20.9	10.3	0.002	0.32	1.42	41.4	1	1.0	180.0	0.20	0.10	0.81	0.575
TRD000725		38.9	110	19.4	169.5	<0.002	0.25	1.46	14.0	1	3.9	34.1	1.12	0.06	17.40	0.412
TRD000726		38.3	110	22.0	168.5	0.003	0.29	1.62	13.8	1	3.7	32.0	1.14	0.06	17.35	0.427
TRD000727		39.7	130	23.5	171.5	0.002	0.27	1.40	14.1	1	3.9	36.8	1.14	0.06	18.30	0.415
TRD000728		49.1	130	26.4	187.0	0.002	0.52	1.89	13.9	2	3.9	31.2	1.17	0.06	17.90	0.423
TRD000729		39.8	120	19.0	176.5	<0.002	0.29	1.31	13.9	1	4.2	31.5	1.16	<0.05	17.30	0.408
TRD000730		53.7	130	30.8	187.0	0.005	0.83	2.81	14.6	1	4.2	31.6	1.22	0.07	17.95	0.423



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000694		0.27	2.2	48	2.9	15.5	69	113.5
TRD000695		0.25	2.1	48	3.0	15.3	51	106.5
TRD000696		0.21	0.9	220	0.4	23.0	84	106.5
TRD000697		0.25	1.9	42	3.2	12.8	45	105.0
TRD000698		0.31	2.3	55	3.3	14.7	54	116.5
TRD000699		0.30	2.7	52	3.5	14.7	62	108.5
TRD000700		0.40	3.0	78	4.2	18.2	48	116.5
TRD000701		0.40	2.8	64	4.0	21.0	40	106.5
TRD000702		0.49	3.0	54	5.3	21.1	51	105.5
TRD000703		0.52	2.8	71	3.7	31.8	76	118.0
TRD000704		0.66	2.5	78	3.2	38.5	109	115.5
TRD000705		0.72	2.6	82	3.2	36.8	130	111.0
TRD000706		0.56	2.3	67	3.1	24.0	94	110.5
TRD000707		0.40	2.8	77	3.8	20.3	82	129.0
TRD000708		0.35	2.7	49	4.4	16.4	34	99.3
TRD000709		0.31	2.7	45	5.1	14.8	31	103.5
TRD000710		0.31	4.0	53	4.5	17.2	39	119.0
TRD000711		0.63	3.1	46	4.5	15.7	36	113.0
TRD000712		0.36	2.8	41	4.0	15.7	36	106.0
TRD000713		0.28	2.2	40	4.0	16.0	47	105.5
TRD000714		0.45	2.2	48	3.5	26.8	49	107.5
TRD000715		0.83	2.9	75	3.0	33.0	79	125.5
TRD000716		0.97	2.5	83	3.1	26.2	102	121.0
TRD000717		1.38	3.3	91	3.2	25.2	130	125.0
TRD000718		1.26	3.5	106	3.3	26.5	132	128.0
TRD000719		1.21	3.0	102	3.1	23.2	113	124.0
TRD000720		0.21	0.9	218	0.5	22.8	85	110.5
TRD000721		0.03	0.2	5	0.3	1.3	14	10.8
TRD000722		0.85	2.3	81	7.8	12.4	92	134.0
TRD000723		0.80	2.4	101	2.9	16.0	98	133.0
TRD000724		0.19	0.2	264	25.8	18.6	135	52.7
TRD000725		1.14	2.9	92	3.1	25.6	111	121.0
TRD000726		1.12	3.0	104	3.3	26.3	167	123.0
TRD000727		1.12	3.1	100	3.3	27.4	137	123.0
TRD000728		1.38	3.7	149	2.9	31.7	112	133.5
TRD000729		1.20	2.9	110	3.1	33.8	112	119.5
TRD000730		1.46	3.9	109	3.2	35.5	141	129.5



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Project: Panama Project

<b>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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 This copy reported on 7-JUL-2022  
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**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
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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
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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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000731		1.91	98.2	<0.005		0.07	8.07	25.6	660	2.22	0.43	0.01	0.19	106.5	17.4	68
TRD000732		0.92		0.012		0.07	7.56	28.7	650	2.24	0.57	0.01	0.02	89.2	6.4	59
TRD000733		0.91		<0.005		0.11	7.26	17.3	650	2.46	0.49	0.01	0.03	82.8	6.7	63
TRD000734		1.77		0.022		0.10	5.45	22.6	380	1.81	0.33	0.01	0.03	70.1	9.8	51
TRD000735		1.19		<0.005		0.08	7.72	19.8	610	2.63	0.34	0.01	0.05	72.9	9.0	69
TRD000736		1.72		<0.005		0.06	7.26	13.1	540	2.40	0.36	0.01	0.04	81.8	10.7	58
TRD000737		1.50		<0.005		0.06	7.53	15.8	590	2.40	0.55	0.01	0.14	95.6	20.7	61
TRD000738		1.05		0.020		0.06	7.55	22.7	590	2.56	0.48	0.01	0.09	91.2	20.8	59
TRD000739		1.09		0.007		0.04	7.71	9.2	610	2.11	0.30	0.01	0.09	91.0	15.4	64
TRD000740		1.42		1.235		0.23	7.12	21.9	520	2.18	2.30	0.01	0.26	85.8	17.4	55
TRD000741		0.80		0.221		0.08	7.18	31.8	570	2.15	1.01	0.01	0.15	89.6	14.2	48
TRD000742		1.82		0.072		0.16	6.76	15.6	520	2.15	0.64	0.01	0.29	81.3	12.2	48
TRD000743		1.17		0.017		0.07	6.55	28.9	480	2.21	0.44	0.01	0.05	70.7	7.0	52
TRD000744		1.58		0.061		0.06	7.41	16.4	550	2.33	0.50	0.01	0.11	87.1	12.3	60
TRD000745		1.02		0.019		0.03	7.73	6.0	550	2.29	0.50	0.01	0.12	94.9	13.4	60
TRD000746		0.66		0.005		0.09	7.68	28.6	580	2.51	0.57	0.02	0.49	95.5	30.4	60
TRD000747		0.93		0.016		0.05	7.57	14.1	540	2.49	0.45	0.02	0.24	92.8	20.1	60
TRD000748		0.76		0.008		0.04	7.67	14.3	550	2.45	0.40	0.04	0.07	88.7	16.4	67
TRD000749		2.07		0.025		0.07	7.98	18.8	580	2.60	0.50	0.04	0.13	94.8	19.1	64
TRD000750		1.20		0.007		0.03	7.65	7.7	530	2.50	0.38	0.08	0.05	87.1	14.0	66
TRD000751		1.76		<0.005		0.05	7.27	7.8	480	2.54	0.50	0.10	0.04	82.6	13.0	65
TRD000752		0.90		0.023		0.07	8.15	1.4	220	0.67	0.09	6.63	0.09	29.3	37.9	6
TRD000753		1.36		0.009		0.04	7.72	10.1	530	2.14	0.29	0.08	0.05	81.6	14.4	65
TRD000754		1.68		0.006		0.06	7.89	25.5	530	2.45	0.43	0.09	0.07	92.1	23.4	68
TRD000755		1.59		0.011		0.04	7.82	9.1	550	2.47	0.41	0.09	0.07	88.6	15.4	68
TRD000756		1.01		0.008		0.02	7.53	4.9	580	2.37	0.42	0.11	0.02	88.3	14.6	65
TRD000757		1.19		0.007		0.02	7.54	2.9	630	2.35	0.35	0.09	<0.02	89.6	15.2	66
TRD000758		0.69		0.006		0.03	7.76	1.4	700	2.14	0.51	0.11	0.02	85.1	16.9	67
TRD000759		1.86		0.006		0.03	7.70	3.5	610	2.60	0.45	0.10	0.02	89.0	15.4	68
TRD000760		1.19		0.006		0.02	7.64	0.8	540	2.71	0.38	0.09	<0.02	89.9	15.1	66
TRD000761		0.12		0.006		0.04	7.26	9.7	530	1.85	0.38	0.09	0.08	34.8	5.4	74
TRD000762		0.60		0.006		0.02	8.70	12.2	390	2.49	0.37	0.03	<0.02	28.2	3.3	85
TRD000763		0.65		0.006		0.02	8.77	8.7	650	2.12	0.50	0.01	<0.02	21.5	2.3	79
TRD000764		1.59		<0.005		0.02	9.20	7.3	590	2.03	0.51	0.01	0.02	26.9	2.6	88
TRD000765		1.33		<0.005		0.01	9.03	7.3	600	2.22	0.48	0.01	<0.02	21.6	2.6	86
TRD000766		1.64		<0.005		0.02	9.38	9.3	640	2.38	0.54	0.01	<0.02	27.4	2.6	84
TRD000767		1.67		<0.005		0.02	8.96	8.9	610	2.34	0.55	0.01	<0.02	30.2	2.4	76
TRD000768		1.77		0.005		0.02	9.23	11.5	680	2.24	0.52	0.01	0.02	28.8	2.5	84
TRD000769		1.30		0.005		0.01	8.39	7.9	630	2.33	0.50	0.01	0.02	20.1	2.2	79
TRD000770		1.19	96.6	0.005		0.02	8.86	8.5	640	2.45	0.44	<0.01	<0.02	34.7	2.1	79



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**CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000731		8.38	38.2	3.70	19.00	0.18	3.3	0.068	3.16	55.0	32.4	1.42	988	1.19	0.10	15.8
TRD000732		5.81	31.5	3.04	17.50	0.21	3.1	0.087	2.67	43.5	22.4	0.74	541	0.49	0.10	14.5
TRD000733		4.67	40.0	3.06	17.40	0.19	3.3	0.068	2.63	42.5	16.7	0.36	295	0.88	0.10	14.7
TRD000734		4.25	28.3	2.80	12.60	0.13	2.7	0.062	1.72	30.0	12.1	0.26	313	0.78	0.06	11.6
TRD000735		5.41	32.9	4.66	19.05	0.19	3.1	0.077	2.78	33.8	20.8	0.53	476	0.39	0.10	14.8
TRD000736		5.21	30.7	4.00	17.95	0.25	3.0	0.086	2.58	39.9	27.6	0.92	564	0.54	0.09	14.2
TRD000737		7.68	40.0	3.47	19.25	0.22	3.4	0.076	2.89	47.8	30.9	1.15	642	1.92	0.10	15.1
TRD000738		8.39	39.2	3.25	19.25	0.20	3.2	0.071	2.81	44.7	32.7	1.26	802	1.04	0.09	14.7
TRD000739		6.61	32.0	3.85	18.95	0.15	3.1	0.022	2.69	46.0	34.9	1.44	815	0.81	0.09	15.4
TRD000740		5.28	38.8	3.24	17.55	0.13	2.8	0.026	2.25	42.6	29.9	1.17	633	1.73	0.07	13.1
TRD000741		5.50	46.6	2.69	17.35	0.17	3.5	0.022	2.43	45.4	23.0	0.87	396	4.77	0.08	13.0
TRD000742		5.56	45.5	2.52	16.70	0.15	3.3	0.008	2.24	40.6	18.2	0.56	346	9.93	0.08	12.9
TRD000743		5.02	39.4	2.90	15.90	0.11	3.0	0.014	2.18	33.2	14.4	0.39	329	1.86	0.08	12.7
TRD000744		5.85	36.2	3.46	18.45	0.16	3.2	0.073	2.48	42.8	25.9	0.94	607	2.58	0.09	14.5
TRD000745		5.83	29.4	4.03	19.30	0.22	3.1	0.071	2.62	47.6	33.2	1.35	855	0.88	0.09	14.8
TRD000746		9.91	45.1	3.17	19.50	0.19	3.7	0.085	2.83	48.6	32.2	1.27	1030	4.99	0.19	15.8
TRD000747		8.08	37.5	3.81	19.60	0.29	3.3	0.079	2.77	45.1	34.6	1.43	975	2.28	0.26	15.4
TRD000748		8.05	32.6	4.13	19.00	0.24	3.1	0.041	2.86	43.3	33.9	1.49	1045	1.52	0.35	14.6
TRD000749		7.96	39.4	3.89	19.95	0.19	3.3	0.031	2.94	46.6	35.4	1.44	964	1.78	0.34	15.6
TRD000750		7.45	44.7	4.22	18.70	0.28	3.2	0.051	2.73	42.0	37.1	1.42	1065	0.88	0.48	14.6
TRD000751		7.04	77.0	3.64	17.45	0.19	3.0	0.043	2.47	40.4	34.5	1.25	1015	0.65	0.71	14.6
TRD000752		1.67	120.5	7.33	15.55	0.09	2.8	0.049	0.83	13.9	9.4	2.46	1245	0.40	1.47	5.3
TRD000753		6.31	34.5	4.18	17.15	0.27	2.9	0.060	2.77	38.3	31.8	1.48	1050	0.60	0.49	14.2
TRD000754		7.68	61.7	4.04	19.55	0.22	3.1	0.041	2.87	45.0	34.6	1.49	1015	0.95	0.55	15.3
TRD000755		8.11	36.5	4.34	18.80	0.26	3.1	0.071	2.89	41.4	34.5	1.42	927	0.88	0.42	15.0
TRD000756		10.85	30.3	4.12	18.50	0.24	3.2	0.070	2.95	43.1	34.7	1.39	1115	0.48	0.38	15.0
TRD000757		10.60	27.8	4.07	18.70	0.23	3.1	0.065	3.12	44.2	34.3	1.41	945	0.40	0.35	15.0
TRD000758		10.90	29.2	4.25	19.15	0.30	3.2	0.039	3.24	41.0	31.9	1.50	1520	0.49	0.35	15.5
TRD000759		9.44	26.4	4.17	18.85	0.25	3.1	0.075	3.12	43.7	36.0	1.44	1040	0.53	0.39	15.2
TRD000760		8.74	23.0	4.24	19.45	0.23	3.1	0.074	3.28	44.2	34.9	1.43	795	0.49	0.36	15.2
TRD000761		5.30	21.3	3.56	17.45	0.21	2.7	0.076	2.24	18.1	14.3	0.40	495	0.95	0.12	16.1
TRD000762		5.72	28.1	4.89	20.4	0.27	3.5	0.063	1.94	15.5	12.3	0.29	411	1.36	0.09	15.7
TRD000763		4.67	32.0	4.37	22.2	0.28	3.3	0.098	2.75	11.9	11.0	0.27	364	0.68	0.10	16.5
TRD000764		4.61	34.1	4.20	20.9	0.05	3.4	0.099	2.60	14.1	9.5	0.27	373	0.78	0.07	16.4
TRD000765		4.41	35.0	4.00	22.0	0.05	3.2	0.097	2.76	11.1	10.0	0.25	330	0.45	0.08	16.0
TRD000766		4.59	39.7	3.78	22.3	0.06	3.1	0.099	2.99	13.5	11.0	0.27	336	0.50	0.08	16.5
TRD000767		4.97	31.8	3.70	21.0	0.06	3.2	0.093	2.63	13.1	9.7	0.26	484	0.60	0.07	15.9
TRD000768		5.12	35.8	3.75	22.3	0.06	3.3	0.083	2.92	12.5	10.4	0.27	423	0.47	0.08	16.8
TRD000769		4.86	36.9	3.40	21.7	0.06	3.2	0.064	2.79	7.5	10.0	0.23	394	0.41	0.08	16.4
TRD000770		5.34	35.0	3.66	22.2	0.05	3.3	0.083	2.87	12.9	10.6	0.26	442	0.39	0.08	17.1



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000731		40.7	130	22.1	156.0	<0.002	0.42	1.82	12.4	<1	4.0	32.0	1.25	0.05	19.90	0.444
TRD000732		20.9	130	20.0	125.0	<0.002	0.03	0.87	11.5	<1	4.1	31.1	1.20	0.05	18.30	0.387
TRD000733		14.2	130	22.8	119.5	<0.002	0.01	1.32	12.0	<1	3.8	29.4	1.22	<0.05	18.70	0.404
TRD000734		14.6	120	30.0	104.5	<0.002	0.01	1.13	7.9	<1	3.2	22.0	0.85	0.05	13.35	0.327
TRD000735		18.4	100	21.0	130.5	<0.002	0.02	1.04	13.0	<1	4.0	31.0	1.14	0.05	19.10	0.420
TRD000736		23.9	90	16.6	124.5	<0.002	0.06	1.02	12.1	<1	3.8	31.1	1.09	0.06	18.05	0.391
TRD000737		44.5	100	17.1	153.5	0.004	0.67	1.76	13.0	1	3.8	30.9	1.19	0.05	19.75	0.416
TRD000738		45.0	100	16.6	152.0	0.002	0.44	1.29	13.0	1	3.5	31.6	1.11	<0.05	18.65	0.417
TRD000739		37.8	100	13.7	138.0	<0.002	0.26	1.00	13.0	<1	4.0	32.6	1.14	<0.05	18.30	0.419
TRD000740		37.1	100	25.8	125.5	0.002	0.36	1.04	11.6	<1	3.4	31.4	1.02	0.71	16.75	0.371
TRD000741		40.4	130	17.4	127.0	0.004	1.08	1.64	11.8	1	3.6	32.1	1.03	0.21	18.35	0.397
TRD000742		31.0	110	16.9	124.0	0.002	0.59	1.95	11.2	1	3.5	29.6	0.99	0.11	17.25	0.374
TRD000743		18.2	110	13.2	117.0	<0.002	0.06	1.12	10.7	<1	3.3	29.1	0.96	0.05	16.20	0.370
TRD000744		28.7	110	14.1	129.5	<0.002	0.21	1.14	12.3	<1	3.7	34.6	1.09	0.07	18.20	0.405
TRD000745		30.7	110	11.2	127.5	<0.002	0.11	0.81	13.0	<1	4.0	37.7	1.12	0.08	18.50	0.404
TRD000746		75.6	110	24.8	165.0	<0.002	0.33	1.30	13.0	1	3.9	35.1	1.19	<0.05	19.15	0.441
TRD000747		50.6	120	15.8	155.5	<0.002	0.17	1.14	13.0	1	3.9	33.9	1.17	<0.05	19.40	0.420
TRD000748		39.4	190	13.6	148.5	<0.002	0.07	0.91	12.6	<1	3.9	32.3	1.12	<0.05	17.45	0.419
TRD000749		44.2	220	18.7	156.0	<0.002	0.14	1.16	13.6	<1	4.0	35.0	1.18	0.06	18.70	0.437
TRD000750		37.4	330	13.2	143.5	<0.002	0.07	0.94	12.8	<1	3.8	37.7	1.11	0.05	17.70	0.418
TRD000751		33.7	360	14.0	137.0	<0.002	0.06	1.04	12.0	<1	3.4	47.4	1.09	0.05	16.80	0.414
TRD000752		41.6	420	9.4	35.1	<0.002	0.05	0.14	34.4	<1	1.0	141.5	0.37	0.05	3.95	0.422
TRD000753		37.5	340	14.4	135.0	<0.002	0.06	0.92	11.2	<1	3.6	32.1	1.04	<0.05	16.15	0.416
TRD000754		43.6	380	30.2	151.0	<0.002	0.07	1.16	12.7	<1	3.9	36.9	1.17	0.05	18.35	0.430
TRD000755		38.9	370	19.0	155.0	<0.002	0.07	1.02	12.8	<1	3.8	33.0	1.13	0.05	18.30	0.421
TRD000756		38.3	460	16.2	174.5	<0.002	0.05	0.83	12.4	<1	3.8	45.7	1.14	<0.05	18.45	0.415
TRD000757		36.9	420	12.4	176.0	<0.002	0.02	0.72	12.2	<1	3.9	45.0	1.13	<0.05	17.95	0.422
TRD000758		40.4	400	17.6	193.0	<0.002	0.02	0.76	10.8	<1	4.3	49.9	1.24	<0.05	17.60	0.417
TRD000759		37.6	440	17.4	170.0	<0.002	0.03	0.76	12.6	<1	3.8	42.9	1.16	0.05	17.80	0.420
TRD000760		36.7	430	15.6	177.5	<0.002	0.01	0.62	13.0	<1	3.8	37.6	1.18	<0.05	18.50	0.411
TRD000761		17.1	150	20.2	121.5	<0.002	0.04	1.34	13.0	1	3.7	39.6	1.22	0.06	15.80	0.457
TRD000762		14.9	160	24.0	113.5	<0.002	0.02	1.60	14.0	1	3.7	51.1	1.21	0.06	31.7	0.449
TRD000763		13.4	110	20.1	128.5	<0.002	0.02	1.62	18.4	1	4.6	41.7	1.28	0.07	23.5	0.455
TRD000764		16.0	120	21.8	127.0	<0.002	<0.01	1.64	16.0	1	4.4	44.2	1.28	0.08	22.9	0.463
TRD000765		17.0	110	21.5	131.0	<0.002	<0.01	1.40	17.0	<1	4.6	38.5	1.27	0.08	19.90	0.451
TRD000766		16.4	100	23.6	149.0	<0.002	<0.01	1.57	17.0	1	4.5	40.6	1.26	0.09	22.0	0.468
TRD000767		16.6	110	24.9	134.5	<0.002	<0.01	1.58	16.2	1	4.3	38.3	1.23	0.08	18.95	0.465
TRD000768		14.7	120	24.6	144.5	<0.002	<0.01	1.44	18.2	<1	4.7	40.4	1.30	0.07	21.4	0.475
TRD000769		14.2	100	22.7	136.0	<0.002	<0.01	1.44	17.4	<1	4.5	35.6	1.26	0.07	16.10	0.460
TRD000770		12.8	100	24.6	149.5	<0.002	<0.01	1.58	18.6	<1	4.7	38.2	1.30	0.06	20.7	0.466



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000731		1.00	3.2	100	3.5	33.4	144	117.0
TRD000732		0.63	3.0	83	3.4	21.6	98	112.0
TRD000733		0.58	3.3	98	4.7	19.4	75	114.0
TRD000734		0.46	2.5	66	4.1	15.3	50	98.2
TRD000735		0.70	2.8	91	5.6	17.8	90	113.0
TRD000736		0.67	2.6	87	4.9	18.3	107	108.0
TRD000737		1.08	3.9	105	4.3	25.2	159	119.5
TRD000738		0.95	3.3	100	4.1	25.1	208	112.0
TRD000739		0.77	2.8	98	4.1	23.9	157	112.0
TRD000740		0.67	3.1	89	4.7	21.3	107	97.8
TRD000741		0.74	4.0	157	4.9	22.1	75	125.0
TRD000742		0.79	3.3	106	4.9	18.2	76	116.0
TRD000743		0.68	2.9	79	4.2	14.8	84	109.5
TRD000744		0.72	2.9	96	4.4	19.4	119	113.0
TRD000745		0.67	2.4	92	3.8	22.6	127	107.5
TRD000746		1.14	4.1	127	3.4	27.5	198	121.5
TRD000747		0.92	2.9	103	3.0	26.1	140	124.5
TRD000748		0.84	2.6	95	2.8	22.1	101	107.0
TRD000749		0.85	3.0	102	3.3	23.4	123	115.5
TRD000750		0.80	2.7	93	3.5	24.5	101	111.0
TRD000751		0.76	3.4	90	4.1	24.3	86	104.5
TRD000752		0.20	0.9	221	0.4	23.3	87	107.0
TRD000753		0.69	2.3	91	4.0	22.8	105	105.5
TRD000754		0.80	3.7	96	3.3	24.5	108	113.5
TRD000755		0.82	2.6	93	3.3	23.0	105	110.5
TRD000756		0.96	2.5	88	2.7	24.5	96	117.0
TRD000757		0.95	2.4	89	2.7	24.2	98	109.5
TRD000758		0.93	2.4	89	3.0	24.9	96	117.0
TRD000759		0.91	2.5	89	2.9	26.3	99	112.5
TRD000760		0.89	2.3	88	2.9	24.6	98	109.0
TRD000761		0.50	2.0	92	14.9	11.0	66	94.1
TRD000762		0.51	2.9	108	17.3	10.3	48	116.5
TRD000763		0.49	3.0	108	7.1	10.6	73	114.5
TRD000764		0.51	3.0	107	6.4	10.6	79	117.5
TRD000765		0.50	2.8	107	3.3	9.7	86	110.5
TRD000766		0.56	2.8	108	3.2	11.4	81	112.5
TRD000767		0.52	2.6	104	3.2	10.2	70	112.5
TRD000768		0.56	2.8	109	3.3	10.4	67	116.5
TRD000769		0.54	2.7	105	3.0	7.8	62	113.0
TRD000770		0.56	2.8	105	3.0	10.9	58	120.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000771		1.26		0.005		0.03	8.80	9.6	650	2.50	0.43	<0.01	<0.02	53.9	2.0	77
TRD000772		1.49		<0.005		0.02	8.71	10.7	590	2.68	0.56	0.01	<0.02	55.9	2.3	75
TRD000773		1.51		<0.005		0.02	8.41	11.2	620	2.51	0.54	<0.01	<0.02	56.1	3.7	75
TRD000774		1.28		<0.005		0.02	8.95	9.3	690	2.60	0.42	<0.01	<0.02	94.1	9.9	80
TRD000775		1.23		0.005		0.04	8.68	10.3	700	2.81	0.55	<0.01	<0.02	80.4	14.2	78
TRD000776		2.44		<0.005		0.03	8.80	11.6	690	2.81	0.50	<0.01	0.02	120.0	28.3	77
TRD000777		2.47		<0.005		0.04	8.88	13.0	670	2.81	0.63	0.01	0.02	128.5	25.4	77
TRD000778		1.16		0.005		0.03	8.78	13.0	650	2.33	0.60	0.01	0.03	128.5	21.0	76
TRD000779		1.35		0.013		0.06	8.08	1.2	220	0.78	0.04	6.69	0.07	29.9	39.7	7
TRD000780		1.56		<0.005		0.03	8.29	9.3	680	2.22	0.59	0.01	0.03	109.0	15.4	74
TRD000781		1.57		<0.005		0.05	8.02	9.8	640	2.65	0.45	0.01	0.02	133.0	25.1	74
TRD000782		2.22		<0.005		0.05	8.67	8.6	670	2.79	0.52	0.01	0.02	241	39.3	76
TRD000783		1.43		0.005		0.03	8.28	8.1	660	2.74	0.44	0.01	0.03	163.0	24.1	74
TRD000784		1.59		<0.005		0.02	8.79	10.2	660	2.67	0.49	0.01	0.02	107.0	11.7	72
TRD000785		1.28		<0.005		0.03	8.19	8.6	650	2.75	0.47	0.01	<0.02	127.5	30.6	71
TRD000786		1.82		<0.005		0.03	8.20	7.4	710	2.52	0.46	<0.01	<0.02	138.0	46.2	73
TRD000787		2.24		<0.005		0.02	8.75	6.3	760	2.49	0.31	<0.01	0.02	136.5	23.4	74
TRD000788		2.01		<0.005		0.03	8.23	7.4	730	2.64	0.40	<0.01	<0.02	123.5	48.2	72
TRD000789		1.42		<0.005		0.03	8.22	11.6	620	2.72	0.47	0.01	0.03	128.0	16.4	70
TRD000790		1.61		<0.005		0.03	8.69	11.0	630	2.46	0.41	0.01	0.03	137.5	15.4	70
TRD000791		1.58		<0.005		0.03	8.17	11.4	610	2.71	0.47	0.01	0.03	96.5	17.6	71
TRD000792		0.27		<0.005		0.04	8.44	11.1	620	2.69	0.42	0.01	0.03	94.7	21.5	74
TRD000793		2.99		0.006		0.04	8.82	11.0	640	2.71	0.44	0.01	0.03	75.6	10.8	74
TRD000794		2.15		<0.005		0.06	7.85	12.2	580	2.67	0.51	0.01	0.04	85.3	14.4	72
TRD000795		1.73		<0.005		0.06	8.40	11.2	580	2.64	0.54	0.01	0.02	101.5	12.4	71
TRD000796		1.50		<0.005		0.02	8.47	10.7	610	2.43	0.41	<0.01	0.02	68.6	10.0	73
TRD000797		1.86		<0.005		0.03	8.34	10.4	620	2.46	0.45	0.01	0.05	71.9	14.6	73
TRD000798		1.73		<0.005		0.05	8.74	10.6	600	2.60	0.50	0.01	0.04	100.5	17.3	75
TRD000799		2.35		<0.005		0.04	8.69	10.5	640	2.67	0.47	0.01	0.04	90.0	15.5	74
TRD000800		1.09		<0.005		0.04	8.69	9.1	620	2.59	0.43	0.01	0.04	96.4	16.7	75
TRD000801		1.65		<0.005		0.05	8.66	11.4	610	2.90	0.54	0.01	0.04	96.6	16.4	74
TRD000802		1.94		<0.005		0.03	8.90	9.7	600	3.40	0.50	0.01	0.03	105.0	17.2	77
TRD000803		1.95		0.005		0.02	8.64	11.8	600	3.32	0.45	0.04	0.03	93.9	19.7	74
TRD000804		1.89		<0.005		0.03	8.67	11.1	580	3.31	0.51	0.01	0.04	100.5	19.0	74
TRD000805		1.20		<0.005		0.03	8.80	9.7	580	3.18	0.47	0.01	0.02	95.1	19.8	75
TRD000806		1.60		0.016		0.05	7.82	1.1	210	0.72	0.04	6.48	0.08	29.0	38.6	6
TRD000807		1.93		0.005		0.04	8.61	10.5	560	2.60	0.50	0.02	0.02	101.5	17.5	76
TRD000808		1.70		<0.005		0.03	9.08	9.9	580	2.83	0.47	0.01	0.03	116.0	17.5	80
TRD000809		1.67		<0.005		0.03	9.04	8.8	570	3.01	0.48	0.02	0.04	101.0	17.5	84
TRD000810		0.99	98.7	<0.005		0.03	9.23	8.1	580	3.12	0.53	0.01	0.02	98.5	17.4	88



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000771		4.88	26.8	3.65	21.7	0.08	3.2	0.094	2.98	22.9	10.8	0.26	372	0.42	0.08	16.1
TRD000772		4.91	27.9	3.71	20.7	0.06	3.3	0.079	2.59	20.7	9.4	0.24	511	0.38	0.07	16.3
TRD000773		4.95	30.9	3.83	22.2	0.07	3.3	0.089	2.67	11.7	10.2	0.22	552	0.43	0.07	16.7
TRD000774		5.08	38.0	3.92	21.7	0.07	3.2	0.095	3.01	14.4	12.4	0.27	592	0.46	0.09	16.1
TRD000775		5.29	50.7	4.35	23.0	0.09	3.4	0.084	3.03	22.5	13.2	0.27	717	0.49	0.09	17.1
TRD000776		5.68	38.1	3.81	23.0	0.08	3.4	0.044	2.90	22.9	17.0	0.27	1145	0.44	0.08	17.4
TRD000777		5.84	29.7	3.75	21.6	0.09	3.5	0.089	2.78	34.6	20.6	0.29	1350	0.47	0.08	16.8
TRD000778		6.41	29.0	3.84	22.0	0.10	3.4	0.085	2.70	45.5	16.8	0.31	1175	0.47	0.07	17.0
TRD000779		1.60	122.0	7.47	16.20	0.08	2.9	0.070	0.81	14.3	10.6	2.64	1300	0.34	1.44	5.4
TRD000780		5.93	38.4	3.68	21.4	0.14	3.1	0.084	2.92	56.6	18.4	0.32	1145	0.47	0.08	16.7
TRD000781		5.10	33.2	3.92	21.0	0.10	3.2	0.088	2.59	41.4	23.8	0.23	1770	0.32	0.07	16.3
TRD000782		5.33	42.3	4.15	21.7	0.10	3.1	0.084	2.72	46.8	29.0	0.24	2080	0.41	0.08	16.1
TRD000783		5.11	37.6	3.99	22.3	0.08	3.4	0.081	2.78	24.8	23.4	0.22	1435	0.31	0.08	17.3
TRD000784		5.14	31.5	3.68	21.7	0.09	4.4	0.086	2.75	32.9	16.9	0.24	961	0.39	0.08	21.6
TRD000785		5.33	31.8	3.55	22.0	0.08	3.9	0.087	2.75	24.4	23.7	0.23	1670	0.39	0.08	18.1
TRD000786		4.99	37.0	3.16	23.0	0.06	3.7	0.077	2.88	17.4	21.5	0.22	1735	0.42	0.08	18.1
TRD000787		5.22	33.4	3.42	22.8	0.06	3.4	0.076	3.03	22.4	14.6	0.25	894	0.35	0.09	17.1
TRD000788		5.23	40.4	4.07	20.4	0.06	3.3	0.072	2.95	24.2	21.4	0.25	1545	0.39	0.09	16.8
TRD000789		7.93	34.4	4.51	21.4	0.15	3.8	0.092	2.79	88.4	23.9	0.65	959	0.47	0.08	17.9
TRD000790		8.85	26.2	3.67	21.4	0.17	3.6	0.085	3.03	103.5	27.8	1.00	1065	0.49	0.09	18.9
TRD000791		9.32	28.3	4.00	21.7	0.13	3.2	0.048	2.96	46.9	32.7	0.63	1345	0.42	0.08	16.5
TRD000792		8.42	35.1	3.96	20.7	0.08	3.1	0.083	3.07	22.7	30.3	0.48	1400	0.43	0.09	15.6
TRD000793		8.32	37.6	3.61	21.8	0.10	3.3	0.082	3.21	40.2	25.2	0.59	815	0.29	0.10	16.7
TRD000794		9.42	38.2	3.56	21.5	0.11	3.2	0.068	3.07	35.8	33.4	0.65	904	0.44	0.09	15.9
TRD000795		11.80	35.0	3.42	20.7	0.11	3.4	0.077	2.79	57.4	28.5	0.77	1255	0.46	0.08	16.4
TRD000796		10.05	36.5	3.81	20.8	0.09	3.1	0.068	3.18	35.7	31.2	0.86	845	0.40	0.09	15.8
TRD000797		10.15	36.7	3.90	21.7	0.10	3.1	0.067	3.25	37.7	33.1	1.08	823	0.43	0.11	16.2
TRD000798		11.30	38.0	4.25	21.9	0.11	3.2	0.092	2.93	56.2	35.0	1.39	1265	0.82	0.14	16.3
TRD000799		9.37	39.0	4.09	21.3	0.10	3.1	0.072	3.11	44.9	31.1	1.18	942	0.41	0.14	16.3
TRD000800		11.20	31.4	4.78	20.5	0.13	3.2	0.075	2.98	50.8	40.1	1.68	1625	0.53	0.18	16.5
TRD000801		10.65	35.6	4.16	21.4	0.11	3.0	0.075	3.14	50.1	37.3	1.47	1110	0.58	0.18	15.4
TRD000802		12.30	41.8	4.63	22.7	0.12	3.4	0.094	3.20	52.7	40.6	1.60	1150	0.50	0.23	16.4
TRD000803		12.35	37.8	4.39	21.5	0.12	3.1	0.070	3.06	46.7	39.2	1.52	1585	0.61	0.23	15.9
TRD000804		11.35	41.3	4.43	22.8	0.15	3.1	0.088	3.11	50.9	40.8	1.55	1135	0.56	0.19	15.9
TRD000805		10.70	38.2	4.50	21.6	0.13	3.1	0.080	3.17	46.5	38.6	1.58	1125	0.54	0.19	16.4
TRD000806		1.50	117.5	7.04	16.50	0.09	2.9	0.052	0.78	14.1	10.2	2.47	1255	0.42	1.40	5.3
TRD000807		9.85	37.8	4.16	22.3	0.10	3.1	0.077	3.04	52.2	36.6	1.45	1050	0.50	0.16	16.3
TRD000808		8.39	35.5	4.33	23.1	0.14	3.1	0.072	3.24	60.4	40.0	1.48	787	0.47	0.16	16.5
TRD000809		10.10	38.0	4.59	23.1	0.12	3.1	0.089	3.11	52.9	43.1	1.57	1095	0.48	0.13	16.0
TRD000810		11.70	40.0	4.40	23.8	0.12	3.0	0.084	3.34	48.3	42.9	1.56	1005	0.47	0.13	16.2



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000771		13.2	90	23.1	150.5	<0.002	<0.01	1.52	18.0	<1	4.5	34.8	1.23	0.08	19.70	0.462
TRD000772		16.1	130	33.9	135.0	<0.002	<0.01	1.52	16.4	<1	4.2	49.8	1.27	0.05	18.50	0.474
TRD000773		19.1	110	35.0	130.5	<0.002	<0.01	1.44	17.4	<1	4.4	37.6	1.29	0.06	16.30	0.469
TRD000774		21.2	110	39.7	141.5	<0.002	<0.01	1.08	17.6	<1	4.4	37.3	1.24	0.07	19.60	0.466
TRD000775		23.3	110	54.8	149.0	<0.002	<0.01	2.25	19.1	<1	4.6	39.0	1.30	0.10	20.1	0.473
TRD000776		36.3	130	39.8	147.0	<0.002	<0.01	1.34	18.0	<1	4.7	46.2	1.33	0.07	19.50	0.483
TRD000777		42.4	130	34.8	142.0	<0.002	<0.01	1.36	16.0	<1	4.4	43.3	1.31	0.07	19.15	0.486
TRD000778		41.1	120	31.5	145.0	<0.002	<0.01	1.28	13.4	<1	4.3	42.6	1.31	0.06	19.20	0.484
TRD000779		44.3	430	6.0	32.3	<0.002	0.02	0.14	39.1	<1	1.1	144.0	0.42	<0.05	3.89	0.436
TRD000780		39.4	110	25.8	146.0	<0.002	<0.01	1.14	13.4	<1	4.6	39.7	1.22	<0.05	15.50	0.464
TRD000781		50.4	150	24.8	124.0	<0.002	<0.01	1.28	13.3	<1	4.3	56.3	1.25	0.06	15.05	0.468
TRD000782		56.0	130	18.8	133.5	<0.002	<0.01	2.04	16.2	<1	4.8	47.2	1.26	0.07	18.90	0.458
TRD000783		47.6	120	17.6	126.5	<0.002	<0.01	0.98	15.0	<1	4.5	43.9	1.32	0.05	16.05	0.458
TRD000784		29.5	140	15.6	130.5	<0.002	<0.01	0.99	15.2	<1	4.6	51.2	1.69	0.06	21.6	0.474
TRD000785		36.0	130	16.2	131.0	<0.002	<0.01	1.24	15.5	<1	4.6	43.0	1.41	0.08	17.00	0.465
TRD000786		29.7	110	24.1	130.5	<0.002	<0.01	1.14	15.2	<1	4.6	43.3	1.41	0.05	16.40	0.464
TRD000787		16.6	140	30.8	136.5	<0.002	<0.01	0.90	17.3	<1	4.7	47.2	1.28	0.05	18.60	0.456
TRD000788		31.5	170	23.7	131.0	<0.002	<0.01	1.17	15.6	<1	4.4	53.2	1.25	0.06	15.60	0.447
TRD000789		31.1	130	15.5	149.5	<0.002	0.04	1.00	15.3	<1	4.6	51.3	1.35	0.06	19.50	0.429
TRD000790		34.3	110	17.6	165.0	<0.002	0.01	1.11	14.2	<1	4.2	51.7	1.44	0.06	20.2	0.457
TRD000791		43.9	130	20.5	166.0	<0.002	<0.01	1.52	14.2	<1	4.2	56.0	1.24	0.05	16.90	0.442
TRD000792		44.0	120	21.5	151.5	<0.002	<0.01	1.15	13.8	<1	4.2	53.6	1.15	0.05	15.45	0.448
TRD000793		28.0	120	18.5	169.0	<0.002	<0.01	0.95	15.4	<1	4.4	57.2	1.29	0.06	19.70	0.469
TRD000794		41.7	80	29.7	153.0	<0.002	<0.01	3.66	14.2	<1	4.4	39.9	1.27	0.07	14.35	0.446
TRD000795		30.4	140	31.0	161.0	<0.002	<0.01	2.11	14.5	<1	4.3	56.6	1.27	0.07	19.25	0.455
TRD000796		23.4	100	22.1	174.5	<0.002	<0.01	1.28	14.4	<1	4.3	47.1	1.22	0.08	18.80	0.446
TRD000797		31.3	100	18.8	174.0	<0.002	0.05	1.30	14.8	<1	4.5	43.5	1.22	0.06	17.40	0.452
TRD000798		45.1	130	29.0	190.5	<0.002	0.11	1.86	13.9	<1	4.5	51.1	1.30	0.07	20.6	0.454
TRD000799		38.9	120	23.1	182.5	<0.002	0.10	1.38	14.2	<1	4.6	48.0	1.25	0.06	19.60	0.457
TRD000800		45.1	150	23.6	191.0	<0.002	0.17	2.20	13.2	<1	4.4	43.6	1.14	0.06	17.50	0.461
TRD000801		43.9	130	34.1	188.5	<0.002	0.16	1.54	14.3	<1	4.2	49.9	1.21	0.05	19.50	0.449
TRD000802		45.7	140	20.8	199.5	<0.002	0.14	1.50	15.4	<1	4.6	43.9	1.30	0.07	20.8	0.459
TRD000803		66.6	170	18.1	190.0	<0.002	0.15	1.21	14.4	<1	4.2	52.8	1.22	0.07	19.75	0.457
TRD000804		63.4	130	20.3	191.5	<0.002	0.14	1.18	15.5	<1	4.4	44.1	1.28	0.06	20.1	0.445
TRD000805		73.4	140	19.8	197.0	<0.002	0.14	1.04	15.2	<1	4.5	44.4	1.25	0.05	19.75	0.444
TRD000806		43.8	410	6.4	34.1	<0.002	0.02	0.15	37.8	<1	1.1	142.5	0.39	<0.05	3.83	0.407
TRD000807		49.6	120	27.8	184.0	<0.002	0.18	1.76	14.3	<1	4.6	37.0	1.27	0.05	19.50	0.453
TRD000808		46.4	120	24.7	182.5	<0.002	0.23	1.94	15.8	<1	4.7	35.5	1.31	0.06	20.2	0.466
TRD000809		44.6	130	25.2	181.0	<0.002	0.20	1.30	15.7	<1	4.3	39.3	1.28	0.06	20.6	0.471
TRD000810		45.8	110	28.6	200	<0.002	0.22	1.10	16.0	<1	4.5	35.3	1.27	0.06	20.9	0.465



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22077763**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000771		0.57	2.7	105	2.9	12.8	57	113.0
TRD000772		0.57	3.0	105	2.9	12.0	62	118.0
TRD000773		0.59	3.2	105	2.8	10.0	72	118.0
TRD000774		0.69	3.2	101	2.9	13.7	76	114.5
TRD000775		0.88	3.7	100	3.0	17.5	83	121.0
TRD000776		1.13	3.4	104	3.0	17.4	81	123.0
TRD000777		1.09	3.2	106	2.8	24.7	92	125.0
TRD000778		0.98	3.2	104	2.6	31.7	98	122.5
TRD000779		0.20	1.0	234	0.4	24.0	88	107.5
TRD000780		0.85	2.8	104	2.7	29.4	115	115.5
TRD000781		1.07	3.0	104	2.6	25.2	118	115.0
TRD000782		1.33	3.3	107	2.7	25.7	128	112.5
TRD000783		0.98	3.1	103	2.8	17.8	123	117.5
TRD000784		0.65	3.3	100	2.8	22.3	114	145.5
TRD000785		1.02	3.1	103	3.0	15.4	91	135.0
TRD000786		1.21	3.0	107	3.1	12.8	85	128.0
TRD000787		0.78	3.3	103	2.8	12.3	59	121.0
TRD000788		1.09	3.0	102	2.8	12.3	83	121.0
TRD000789		0.77	3.0	96	2.7	33.1	118	131.5
TRD000790		0.79	2.9	102	2.6	46.0	136	137.0
TRD000791		0.93	2.7	100	2.6	32.9	123	115.5
TRD000792		0.94	2.7	102	2.5	18.6	118	109.5
TRD000793		0.81	2.9	106	2.8	24.8	124	118.0
TRD000794		0.89	2.9	101	3.0	22.9	129	110.5
TRD000795		0.80	2.9	101	2.8	28.8	127	117.5
TRD000796		0.78	2.7	100	2.6	20.4	98	108.5
TRD000797		0.85	2.7	102	2.9	20.7	109	110.5
TRD000798		1.10	3.1	103	2.6	29.5	119	117.0
TRD000799		0.96	2.9	103	2.6	25.8	111	114.5
TRD000800		1.02	2.5	103	2.3	30.2	111	114.5
TRD000801		1.07	2.9	102	2.5	25.3	105	107.5
TRD000802		1.20	3.0	106	2.6	27.3	107	114.0
TRD000803		1.33	2.8	101	2.7	25.8	130	113.5
TRD000804		1.30	2.9	101	2.6	27.2	126	110.0
TRD000805		1.30	2.9	104	2.6	28.1	132	116.0
TRD000806		0.22	1.0	219	0.4	24.2	83	108.5
TRD000807		1.08	2.9	104	2.7	24.9	104	108.0
TRD000808		1.12	3.0	107	2.8	25.9	93	109.5
TRD000809		1.13	3.0	108	2.6	25.9	115	109.5
TRD000810		1.16	3.0	111	2.5	23.7	130	104.0



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000811		1.82		<0.005		0.03	8.62	8.6	520	2.87	0.41	0.03	0.04	85.8	15.6	78
TRD000812		3.38		<0.005		0.03	9.24	10.0	600	3.11	0.52	0.03	0.03	108.0	15.8	81
TRD000813		3.54		<0.005		0.03	9.01	8.8	560	3.12	0.49	0.06	0.03	102.0	15.6	79
TRD000814		0.78		0.005		0.03	8.59	4.8	510	2.72	0.47	0.07	0.05	85.9	14.9	81
TRD000815		0.80		<0.005		0.04	9.04	28.4	520	2.77	0.51	0.08	0.04	98.9	26.0	82
TRD000816		1.08		<0.005		0.03	8.89	9.6	510	3.00	0.53	0.05	0.04	110.0	18.4	82
TRD000817		1.05		<0.005		0.03	8.92	17.2	530	3.33	0.53	0.02	0.04	101.5	19.2	84
TRD000818		1.58		<0.005		0.02	8.23	14.2	480	3.23	0.48	0.02	0.03	96.7	17.4	73
TRD000819		1.87		<0.005		0.06	8.48	18.0	490	3.09	0.55	0.01	0.05	90.3	17.6	72
TRD000820		2.23		<0.005		0.07	8.64	15.9	480	3.99	0.55	0.01	0.05	98.5	16.6	78
TRD000821		2.37		<0.005		0.09	8.19	19.9	450	3.66	0.48	0.01	0.05	93.5	13.2	81
TRD000822		1.83		<0.005		0.09	6.88	10.9	430	2.32	0.42	0.01	0.07	83.7	10.5	68
TRD000823		1.98		<0.005		0.11	7.66	12.7	440	3.01	0.45	0.01	0.16	91.2	10.4	72
TRD000824		1.71		0.008		0.13	8.27	15.6	490	2.99	0.54	0.01	0.12	93.5	12.2	80
TRD000825		2.01		0.005		0.10	6.95	14.0	410	2.58	0.42	0.01	0.10	79.8	8.8	70
TRD000826		1.60		<0.005		0.10	7.09	9.4	420	2.05	0.39	0.01	0.07	85.8	6.6	67
TRD000827		2.47		0.006		0.10	7.31	8.6	440	2.33	0.43	0.01	0.04	82.9	8.1	70
TRD000828		2.10		<0.005		0.10	6.75	16.9	370	2.15	0.39	0.01	1.43	88.3	10.8	66
TRD000829		2.11		<0.005		0.08	7.11	15.8	400	3.28	0.38	0.01	0.61	87.9	14.8	67
TRD000830		2.12		<0.005		0.04	6.91	7.7	400	3.09	0.29	0.01	0.29	87.2	13.9	64
TRD000831		4.10		<0.005		0.04	5.73	8.9	330	2.86	0.27	0.03	0.17	84.4	11.8	57
TRD000832		1.12		<0.005		0.07	6.92	8.2	410	4.01	0.33	0.03	0.19	122.5	13.7	56
TRD000833		1.24		0.020		0.08	8.16	1.8	220	0.94	0.22	6.62	0.08	30.7	39.9	6
TRD000834		0.07		>10.0	NSS	1.49	6.35	3870	550	2.64	0.67	0.84	0.06	72.2	12.8	103
TRD000835		0.04		0.016		0.01	0.10	3.0	<10	0.08	0.01	0.01	<0.02	2.47	0.4	5
TRD000836		0.07		3.09		0.23	7.54	652	690	2.69	0.39	0.78	0.06	81.2	14.0	126
TRD000837		0.07		1.060		0.30	7.01	54.4	130	0.41	0.04	7.11	0.57	12.55	41.0	123
TRD000838		3.11		0.018		0.05	6.59	11.7	380	3.39	0.31	0.03	0.22	143.0	16.6	51
TRD000839		1.79		0.064		0.02	3.54	10.6	170	2.14	0.21	0.03	0.05	72.0	10.7	39
TRD000840		1.93		0.028		0.02	5.36	17.5	310	3.01	0.20	0.03	0.04	78.5	13.2	52
TRD000841		2.51		0.007		0.03	6.87	18.3	390	3.62	1.04	0.02	0.04	90.0	18.4	62
TRD000842		1.72		0.007		0.02	6.98	10.2	420	3.61	0.22	0.03	0.02	91.3	20.1	63
TRD000843		2.36		<0.005		0.03	7.58	7.4	450	3.46	0.38	0.05	0.02	95.6	18.8	67
TRD000844		1.58		<0.005		0.06	8.20	8.8	500	3.24	0.58	0.06	0.06	99.1	20.8	65
TRD000845		1.87		0.006		0.02	7.92	5.1	490	3.10	0.37	0.03	<0.02	98.3	19.4	68
TRD000846		2.13		0.005		0.02	7.50	5.2	460	3.00	0.32	0.08	0.02	93.9	18.9	67
TRD000847		2.45		<0.005		0.03	7.79	7.4	470	3.04	0.41	0.06	0.03	92.6	21.8	66
TRD000848		1.80		<0.005		0.04	7.58	7.9	470	3.08	0.43	0.03	0.03	90.9	19.7	64
TRD000849		2.27		0.005		0.03	7.10	5.5	450	2.94	0.30	0.02	0.02	90.5	18.7	65
TRD000850		1.49	98.2	0.022		0.02	7.57	3.3	500	2.94	0.37	0.02	<0.02	96.6	19.7	66



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000811		11.50	36.9	4.45	21.5	0.12	2.9	0.065	3.05	43.3	40.7	1.57	1185	0.44	0.15	15.4
TRD000812		10.55	38.3	4.51	23.8	0.13	3.2	0.088	3.23	55.4	37.6	1.32	1080	0.53	0.15	17.0
TRD000813		10.80	39.6	4.89	22.9	0.12	3.1	0.073	3.13	50.3	44.8	1.55	1300	0.57	0.24	16.6
TRD000814		11.70	35.0	4.93	22.5	0.14	2.8	0.074	3.12	41.4	42.8	1.55	1310	0.52	0.28	15.8
TRD000815		11.85	39.5	5.36	23.0	0.19	3.0	0.073	3.19	49.5	44.7	1.70	1330	0.70	0.26	16.2
TRD000816		10.85	38.1	5.00	22.9	0.15	3.0	0.085	3.12	57.3	45.6	1.68	1075	0.53	0.16	16.2
TRD000817		9.29	35.8	4.08	23.1	0.12	3.2	0.077	3.00	52.3	42.2	1.53	853	0.84	0.10	16.3
TRD000818		6.24	32.4	3.38	20.7	0.11	2.9	0.081	2.70	50.8	36.0	1.33	495	0.49	0.09	15.2
TRD000819		7.93	29.9	1.83	21.9	0.08	3.6	0.078	3.18	44.9	32.2	0.70	199	0.51	0.09	17.6
TRD000820		11.70	36.7	3.93	22.1	0.11	3.2	0.084	3.29	51.7	34.0	0.76	300	0.85	0.10	15.4
TRD000821		11.70	44.8	4.26	21.2	0.11	3.2	0.073	3.30	49.4	28.8	0.51	129	2.02	0.08	13.6
TRD000822		7.19	36.1	2.21	18.30	0.09	3.6	0.069	2.68	43.6	21.8	0.37	83	2.27	0.06	13.1
TRD000823		9.48	39.8	2.24	19.45	0.10	3.6	0.032	2.73	46.8	26.3	0.38	63	2.17	0.06	13.9
TRD000824		9.67	38.3	2.43	21.0	0.11	3.2	0.057	3.18	48.2	24.3	0.42	71	1.10	0.08	14.2
TRD000825		8.81	42.9	2.59	18.20	0.09	3.2	0.065	2.71	40.2	23.7	0.59	126	2.49	0.06	12.9
TRD000826		8.66	36.4	2.15	17.90	0.09	3.4	0.059	2.66	44.0	24.4	0.76	193	2.90	0.06	13.3
TRD000827		9.21	37.7	2.60	19.35	0.09	3.6	0.083	2.84	42.0	25.5	0.86	262	3.18	0.07	13.9
TRD000828		9.20	35.8	2.69	17.50	0.10	4.0	0.079	2.47	45.7	23.8	0.96	250	10.45	0.05	14.2
TRD000829		9.24	31.5	3.81	18.35	0.10	4.2	0.061	2.64	42.7	24.5	0.97	255	7.32	0.06	16.1
TRD000830		7.28	29.3	3.40	17.20	0.10	3.6	0.048	2.48	42.7	23.4	1.11	414	2.04	0.07	16.9
TRD000831		6.28	26.7	3.28	15.45	0.10	4.5	0.052	2.02	41.0	20.9	0.94	403	2.33	0.09	24.6
TRD000832		7.82	33.3	3.14	26.7	0.22	10.8	0.099	2.67	58.8	30.3	1.08	399	1.69	0.10	65.2
TRD000833		1.58	130.0	7.32	17.95	0.20	3.1	0.074	0.82	14.6	12.9	2.54	1270	0.54	1.46	5.6
TRD000834		9.11	55.4	3.40	18.25	0.26	3.6	0.079	2.56	36.3	44.7	1.26	353	1.44	0.47	11.5
TRD000835		0.10	5.4	0.34	0.34	0.11	0.3	0.015	0.01	1.2	18.6	<0.01	32	0.72	<0.01	1.0
TRD000836		9.11	30.4	3.87	20.7	0.26	3.9	0.099	2.73	41.5	50.7	1.52	342	0.70	0.67	14.0
TRD000837		0.80	163.5	7.74	16.00	0.36	1.7	0.097	0.36	5.2	12.0	3.79	1320	0.90	1.67	3.2
TRD000838		7.42	19.1	2.70	27.3	0.39	12.9	0.119	2.47	69.4	31.5	0.94	350	2.04	0.08	77.1
TRD000839		4.33	8.9	2.04	11.65	0.29	4.7	0.060	1.06	34.9	27.1	0.64	299	2.88	0.05	26.6
TRD000840		4.52	18.8	2.29	15.75	0.28	3.8	0.048	2.04	38.1	30.7	0.71	228	2.29	0.08	19.0
TRD000841		6.13	27.4	2.56	19.05	0.31	4.1	0.081	2.64	44.9	32.7	0.86	520	1.68	0.08	17.7
TRD000842		8.90	17.2	3.10	19.45	0.32	4.5	0.079	2.59	45.7	34.5	1.13	740	1.88	0.12	16.7
TRD000843		8.00	32.5	3.78	21.5	0.37	3.9	0.079	2.89	46.8	36.2	1.32	951	0.98	0.13	17.6
TRD000844		9.90	41.4	4.00	22.8	0.37	4.1	0.094	3.17	48.4	39.1	1.46	1265	1.02	0.14	17.3
TRD000845		8.90	29.8	3.94	22.6	0.43	3.6	0.084	3.05	48.9	37.6	1.41	1115	0.74	0.12	15.9
TRD000846		8.88	31.4	3.68	21.4	0.39	4.1	0.085	2.83	48.1	36.1	1.31	1285	0.92	0.21	16.6
TRD000847		8.91	37.3	4.23	22.1	0.41	3.6	0.120	2.95	45.8	37.4	1.44	1395	0.62	0.20	16.1
TRD000848		8.62	35.6	3.83	21.8	0.42	3.6	0.104	2.90	46.0	35.5	1.32	1110	0.56	0.14	15.8
TRD000849		8.57	29.4	3.46	19.60	0.42	4.1	0.081	2.70	45.8	32.4	1.23	972	0.80	0.11	15.9
TRD000850		8.83	29.8	3.91	20.9	0.44	3.9	0.097	2.87	47.3	34.9	1.35	1100	1.18	0.11	16.1



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000811		40.8	200	25.1	189.0	<0.002	0.15	0.94	14.9	<1	4.2	35.3	1.20	0.06	18.90	0.440
TRD000812		42.4	190	26.5	185.5	<0.002	0.13	1.28	16.6	<1	4.6	42.0	1.31	0.07	21.4	0.475
TRD000813		41.7	320	27.5	189.0	<0.002	0.17	1.44	15.9	<1	4.4	34.2	1.30	0.07	20.3	0.458
TRD000814		38.8	340	28.0	182.0	<0.002	0.21	1.19	15.4	<1	4.5	30.5	1.24	0.06	18.60	0.444
TRD000815		59.2	360	26.3	197.0	<0.002	0.23	1.58	15.8	<1	4.5	30.8	1.25	0.08	20.2	0.455
TRD000816		47.0	290	26.1	188.5	<0.002	0.29	2.00	15.6	<1	4.5	33.4	1.27	0.06	20.5	0.454
TRD000817		54.7	190	26.5	169.5	<0.002	0.27	1.56	16.0	<1	4.4	45.3	1.29	0.08	20.4	0.468
TRD000818		41.8	190	20.3	142.0	<0.002	0.25	1.67	14.0	<1	4.3	49.5	1.20	0.07	18.70	0.427
TRD000819		41.1	180	25.4	183.0	<0.002	0.56	2.55	14.4	<1	5.7	70.6	1.48	<0.05	19.75	0.462
TRD000820		40.6	440	28.6	198.0	<0.002	0.73	3.27	15.1	<1	4.8	67.3	1.25	0.05	20.2	0.428
TRD000821		37.5	580	22.6	199.5	0.002	1.02	3.68	15.2	<1	4.0	79.4	1.07	0.05	19.35	0.400
TRD000822		28.9	350	19.0	151.0	<0.002	1.08	2.84	11.8	<1	3.6	71.4	1.03	<0.05	17.50	0.370
TRD000823		28.6	420	25.3	172.5	<0.002	1.18	3.17	13.4	1	3.7	92.8	1.07	<0.05	19.20	0.395
TRD000824		29.4	370	27.8	186.0	<0.002	1.34	3.38	15.0	<1	4.1	81.1	1.11	0.06	19.00	0.412
TRD000825		27.4	230	18.7	170.5	0.002	1.46	2.89	12.2	<1	3.6	62.4	0.95	0.05	16.50	0.357
TRD000826		16.6	140	20.6	165.5	0.002	0.88	2.98	11.9	<1	3.7	37.6	1.03	<0.05	17.85	0.369
TRD000827		20.3	180	22.1	173.0	0.002	0.97	3.01	12.8	<1	4.2	48.5	1.08	<0.05	18.00	0.375
TRD000828		26.9	140	24.7	164.0	0.003	1.02	2.31	11.6	<1	3.4	32.0	1.09	<0.05	18.65	0.375
TRD000829		42.3	270	21.0	163.5	0.004	0.64	2.12	12.0	<1	3.7	27.2	1.23	0.05	20.0	0.420
TRD000830		38.4	240	18.0	142.5	<0.002	0.26	0.92	11.0	<1	3.7	28.9	1.18	<0.05	17.80	0.382
TRD000831		31.2	380	19.8	120.5	<0.002	0.17	1.02	9.0	<1	3.5	28.6	1.49	<0.05	18.20	0.334
TRD000832		29.8	290	30.1	139.0	0.002	0.13	1.22	11.4	1	5.8	33.5	4.14	0.06	32.1	0.353
TRD000833		43.9	420	7.0	36.3	0.002	0.03	0.24	43.1	1	1.2	143.0	0.38	<0.05	3.95	0.422
TRD000834		48.0	500	33.6	145.5	<0.002	0.74	3570	12.5	2	3.5	96.1	0.89	<0.05	12.40	0.373
TRD000835		2.9	10	0.7	0.4	<0.002	<0.01	2.52	0.2	<1	0.5	0.8	<0.05	<0.05	0.68	0.031
TRD000836		62.6	560	20.3	152.0	<0.002	0.12	598	15.1	1	3.7	96.3	1.08	<0.05	14.50	0.478
TRD000837		86.3	400	21.5	10.4	0.002	0.30	1.99	42.8	1	1.0	181.0	0.22	0.09	0.84	0.594
TRD000838		32.0	260	27.7	148.0	0.002	0.16	1.77	9.2	1	6.3	32.1	5.18	<0.05	35.5	0.335
TRD000839		29.2	200	11.2	84.8	0.002	0.02	1.00	5.2	1	2.3	18.6	1.37	<0.05	12.90	0.247
TRD000840		30.4	130	10.4	122.5	0.002	0.07	1.54	8.8	<1	2.9	23.0	1.09	<0.05	14.40	0.341
TRD000841		40.2	130	13.4	164.0	0.002	0.07	1.78	11.1	1	3.6	35.5	1.25	0.11	16.95	0.411
TRD000842		46.9	210	13.8	161.0	<0.002	0.01	0.99	11.4	1	3.5	55.3	1.26	<0.05	17.70	0.426
TRD000843		40.2	290	16.2	164.5	<0.002	0.01	1.04	12.8	1	3.8	42.4	1.34	<0.05	17.35	0.426
TRD000844		43.2	330	25.2	191.5	<0.002	0.01	1.22	13.8	1	4.6	37.6	1.36	<0.05	18.80	0.411
TRD000845		43.5	230	16.8	183.5	0.002	<0.01	0.93	13.6	1	4.5	41.3	1.23	<0.05	17.75	0.438
TRD000846		42.1	400	16.3	171.5	0.002	<0.01	0.89	12.8	1	3.8	45.3	1.25	<0.05	17.60	0.448
TRD000847		43.9	350	17.2	181.5	<0.002	0.01	0.94	13.2	1	4.0	40.2	1.24	<0.05	17.00	0.423
TRD000848		41.2	190	18.8	174.0	<0.002	0.01	0.90	12.6	1	4.2	38.0	1.24	0.06	17.50	0.415
TRD000849		42.3	160	16.2	171.0	<0.002	<0.01	0.72	11.6	1	3.5	52.4	1.22	0.05	17.05	0.433
TRD000850		43.5	160	16.0	177.0	<0.002	<0.01	0.63	12.2	1	3.9	48.1	1.23	<0.05	18.10	0.434



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000811		1.10	2.8	103	2.3	20.9	159	105.5
TRD000812		1.10	3.1	108	2.8	27.8	134	115.5
TRD000813		1.13	2.9	107	2.6	28.6	103	109.5
TRD000814		1.15	2.8	103	2.7	20.2	115	101.5
TRD000815		1.13	2.8	105	2.4	22.7	125	106.0
TRD000816		1.19	3.0	104	2.5	27.1	150	109.0
TRD000817		1.06	3.0	103	2.6	25.6	219	111.0
TRD000818		1.04	2.8	93	2.5	26.2	140	104.0
TRD000819		1.30	3.7	87	3.8	23.0	77	127.0
TRD000820		1.31	3.1	96	3.3	23.0	83	113.5
TRD000821		1.28	3.1	117	3.1	20.5	56	114.5
TRD000822		0.97	2.7	99	2.7	18.1	26	119.5
TRD000823		1.15	3.2	106	2.9	21.5	26	122.0
TRD000824		1.27	2.7	99	3.0	20.4	26	111.0
TRD000825		1.18	2.7	102	3.4	18.6	30	115.5
TRD000826		1.16	3.0	100	4.4	19.2	35	124.5
TRD000827		1.28	3.8	102	3.7	21.2	45	131.0
TRD000828		1.20	5.1	91	3.9	22.1	44	143.5
TRD000829		1.15	5.0	97	5.9	21.8	76	157.5
TRD000830		0.94	2.9	79	3.9	36.2	148	132.0
TRD000831		0.72	2.7	64	4.1	29.1	114	164.0
TRD000832		0.90	4.3	68	4.3	55.5	166	376
TRD000833		0.23	1.0	226	0.5	24.2	86	112.5
TRD000834		0.91	2.5	82	8.3	12.1	94	114.0
TRD000835		<0.02	0.1	2	0.2	0.6	3	8.3
TRD000836		0.86	2.7	104	3.2	20.0	101	136.0
TRD000837		0.18	0.3	256	28.2	19.9	138	53.0
TRD000838		0.87	5.0	62	4.1	63.3	168	449
TRD000839		0.49	2.3	38	5.5	26.7	96	169.0
TRD000840		0.69	2.4	59	5.8	19.4	101	154.5
TRD000841		0.92	2.9	75	6.6	21.9	116	147.5
TRD000842		0.86	3.0	76	5.0	25.0	89	159.5
TRD000843		0.82	2.7	84	4.1	25.9	105	138.0
TRD000844		1.02	3.3	87	3.6	25.1	108	137.5
TRD000845		0.87	2.8	90	3.8	23.8	100	129.0
TRD000846		0.88	3.0	85	3.6	23.2	95	142.5
TRD000847		0.91	2.8	90	3.4	24.7	104	125.0
TRD000848		0.86	3.0	86	3.5	26.1	103	126.5
TRD000849		0.87	2.8	81	3.7	23.3	93	150.0
TRD000850		0.90	3.0	86	3.8	23.5	101	139.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000851		1.80		<0.005		0.02	7.91	1.5	540	2.98	0.35	0.06	<0.02	107.5	18.8	67
TRD000852		2.29		0.009		0.02	7.58	2.2	470	2.76	0.25	0.08	0.02	109.0	20.5	68
TRD000853		2.10		<0.005		0.03	7.62	5.3	490	2.45	0.37	0.10	0.03	98.9	18.8	67
TRD000854		2.56		<0.005		0.03	7.74	3.0	510	2.53	0.35	0.14	0.03	88.9	17.2	68
TRD000855		0.16		<0.005		0.02	4.13	34.7	230	0.99	0.18	0.02	0.02	39.5	4.2	57
TRD000856		0.88		0.011		0.02	4.86	29.6	300	1.18	0.11	0.01	<0.02	57.8	1.5	54
TRD000857		1.06		0.201		0.02	4.12	30.1	290	1.16	0.10	0.01	<0.02	62.2	1.2	47
TRD000858		0.90		0.006		0.02	4.11	12.2	310	1.13	0.08	0.01	<0.02	66.5	1.1	48
TRD000859		1.47		<0.005		0.01	4.03	8.4	310	1.06	0.07	0.01	<0.02	65.6	0.9	42
TRD000860		1.08		0.008		0.01	4.00	18.2	290	1.18	0.08	0.01	<0.02	70.8	0.8	44
TRD000861		1.37		0.007		0.02	4.18	11.9	330	1.14	0.07	0.01	0.02	62.7	1.0	42
TRD000862		1.67		0.137		0.02	4.36	122.5	360	1.14	0.11	0.01	<0.02	73.7	1.1	44
TRD000863		1.47		<0.005		0.01	4.51	10.3	360	1.12	0.10	0.01	<0.02	72.2	0.9	41
TRD000864		1.63		0.014		0.05	7.97	1.1	210	0.64	0.03	6.49	0.09	30.3	37.9	6
TRD000865		0.75		0.008		0.02	4.07	75.1	330	1.10	0.07	0.01	<0.02	41.5	1.5	41
TRD000866		0.97		0.006		0.01	3.70	22.5	280	1.31	0.08	0.01	<0.02	50.3	1.3	37
TRD000867		0.88		0.007		0.02	4.08	10.8	320	1.42	0.08	0.04	<0.02	53.8	1.8	38
TRD000868		1.14		<0.005		0.01	3.92	7.8	310	1.46	0.07	0.01	0.02	52.8	1.4	35
TRD000869		1.31		0.006		0.01	3.88	10.3	280	1.52	0.07	0.01	0.02	61.9	1.2	36
TRD000870		1.37		0.010		0.05	3.80	15.2	280	1.44	0.08	0.01	<0.02	47.4	1.4	43
TRD000871		1.30		0.009		0.01	3.74	31.8	240	1.38	0.07	0.01	<0.02	54.8	2.0	42
TRD000872		1.22		0.063		0.02	5.16	65.4	440	2.94	0.05	0.01	<0.02	58.9	3.4	83
TRD000873		1.39		0.010		0.03	8.21	7.9	790	3.71	0.22	0.01	<0.02	68.4	2.6	73
TRD000874		1.09		0.007		0.04	7.94	3.8	720	3.34	0.28	<0.01	<0.02	106.0	6.4	66
TRD000875		2.00		<0.005		0.02	8.40	2.4	760	3.26	0.37	0.01	<0.02	86.5	11.4	66
TRD000876		1.51		<0.005		0.02	8.29	2.4	730	3.41	0.34	<0.01	<0.02	151.0	19.9	68
TRD000877		1.46		0.011		0.03	8.31	5.0	790	3.71	0.28	0.01	0.03	157.5	28.2	68
TRD000878		1.38		<0.005		0.05	7.54	41.6	700	3.48	1.04	0.01	0.05	158.0	45.0	63
TRD000879		1.17		<0.005		0.04	8.59	8.3	830	3.54	0.43	<0.01	0.03	133.5	32.6	71
TRD000880		0.89		0.007		0.02	8.41	4.0	800	3.07	0.20	<0.01	0.02	173.5	30.0	68
TRD000881		0.80		0.006		0.03	7.99	2.6	730	3.01	0.37	<0.01	0.03	94.0	18.0	67
TRD000882		1.16		0.005		0.03	8.28	1.7	760	2.89	0.39	<0.01	<0.02	107.5	15.5	68
TRD000883		1.14		<0.005		0.04	8.59	3.5	790	3.03	0.37	<0.01	0.02	111.5	19.0	70
TRD000884		1.47		<0.005		0.06	7.88	43.7	680	2.84	0.94	0.01	<0.02	247	27.4	65
TRD000885		1.15	98.9	<0.005		0.04	7.07	24.1	630	2.52	0.49	<0.01	<0.02	94.9	20.3	59



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000851		9.28	28.4	3.94	24.0	0.49	4.3	0.075	3.17	53.2	34.6	1.35	908	0.64	0.18	15.9
TRD000852		9.81	28.5	3.88	20.7	0.48	4.1	0.072	2.83	57.3	35.0	1.35	1070	0.79	0.20	15.8
TRD000853		9.19	33.5	3.90	21.0	0.43	4.1	0.082	2.96	49.9	32.0	1.35	1085	0.72	0.27	16.2
TRD000854		10.35	36.4	4.03	21.4	0.45	3.6	0.070	3.02	43.7	34.2	1.38	1385	0.68	0.32	15.3
TRD000855		3.50	14.6	4.57	11.85	0.42	3.1	0.056	1.00	20.3	12.4	0.25	362	2.50	0.04	14.5
TRD000856		2.83	11.4	2.24	12.10	0.37	4.4	0.080	1.07	29.9	7.6	0.16	73	0.76	0.03	10.0
TRD000857		2.84	9.7	1.78	10.40	0.37	4.0	0.025	1.11	31.0	5.7	0.15	57	0.59	0.02	9.6
TRD000858		2.55	10.4	1.69	10.25	0.37	4.1	0.042	1.22	33.3	5.5	0.15	50	0.84	0.03	9.7
TRD000859		2.64	7.5	0.98	10.30	0.35	4.1	0.049	1.19	34.2	5.2	0.15	44	0.50	0.02	9.5
TRD000860		3.02	8.5	1.07	10.65	0.35	4.2	0.011	1.20	35.0	5.7	0.15	44	0.57	0.03	9.7
TRD000861		2.89	6.9	0.86	10.65	0.34	4.0	0.008	1.18	30.8	5.2	0.15	58	0.63	0.03	10.1
TRD000862		3.19	9.4	1.13	11.70	0.38	3.9	0.045	1.38	38.4	6.1	0.17	61	0.83	0.03	10.3
TRD000863		3.18	5.7	0.58	11.65	0.35	4.0	<0.005	1.39	36.7	5.7	0.17	45	0.64	0.03	10.8
TRD000864		1.52	118.0	7.23	17.00	0.46	3.0	0.076	0.79	14.3	9.7	2.56	1260	0.48	1.42	5.3
TRD000865		2.81	9.6	1.86	10.55	0.46	3.6	0.047	1.09	22.3	4.2	0.13	65	0.60	0.02	9.5
TRD000866		2.44	8.0	1.07	9.99	0.14	3.7	0.054	0.94	25.7	6.3	0.12	69	0.59	0.04	9.3
TRD000867		2.79	10.3	1.14	11.10	0.13	3.4	0.007	1.10	27.8	6.8	0.14	78	0.70	0.05	9.8
TRD000868		2.42	7.9	0.84	10.45	0.11	3.6	0.035	0.86	29.7	5.9	0.11	96	0.48	0.04	10.2
TRD000869		2.52	9.9	0.96	10.35	0.12	3.9	0.041	0.81	32.0	6.7	0.10	80	0.55	0.04	10.2
TRD000870		2.56	10.7	1.83	9.80	0.11	3.6	0.040	0.89	24.9	6.7	0.11	62	0.79	0.04	9.6
TRD000871		3.16	12.0	1.94	9.62	0.14	3.1	0.034	0.96	26.8	7.0	0.11	63	0.67	0.04	8.7
TRD000872		4.46	21.0	5.59	14.50	0.23	2.9	0.029	1.71	31.9	13.0	0.17	79	0.55	0.07	9.4
TRD000873		5.37	28.8	3.53	23.1	0.27	4.2	0.062	2.95	39.8	17.8	0.30	43	0.26	0.12	15.9
TRD000874		6.94	30.7	3.99	22.3	0.29	3.3	0.079	2.87	36.9	21.6	0.35	150	0.19	0.11	15.3
TRD000875		9.79	31.8	3.94	22.5	0.25	3.4	0.080	3.16	35.8	25.2	0.48	178	0.22	0.12	16.1
TRD000876		13.15	48.8	4.51	22.6	0.27	3.6	0.077	3.28	41.2	32.7	0.58	391	0.34	0.12	16.1
TRD000877		11.50	47.2	3.85	24.5	0.36	3.6	0.081	3.39	71.1	35.9	0.61	465	0.30	0.12	16.4
TRD000878		11.15	55.4	3.57	21.6	0.42	3.9	0.037	2.96	99.1	36.4	0.62	580	0.41	0.11	15.6
TRD000879		12.55	42.1	3.96	24.8	0.44	3.5	0.079	3.58	110.0	52.2	0.90	577	0.28	0.13	16.7
TRD000880		13.70	13.6	4.01	25.2	0.39	3.4	0.074	3.52	87.3	54.4	0.92	681	0.24	0.12	15.9
TRD000881		12.10	27.9	4.40	22.3	0.38	3.3	0.087	3.33	56.2	36.0	0.74	563	0.19	0.12	15.7
TRD000882		11.75	26.7	4.01	23.3	0.46	3.6	0.077	3.44	96.4	35.7	0.84	542	0.31	0.12	16.0
TRD000883		9.97	41.7	4.23	25.2	0.39	3.5	0.068	3.44	72.2	36.7	0.63	831	0.24	0.13	16.7
TRD000884		11.95	52.2	3.23	23.9	0.52	3.9	0.068	3.02	134.0	29.9	0.57	576	0.64	0.11	16.7
TRD000885		7.36	37.9	3.36	19.65	0.33	3.1	0.064	2.71	40.0	25.3	0.40	612	0.29	0.10	13.3



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22077763**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000851		41.5	310	14.2	183.5	<0.002	<0.01	0.73	14.8	1	4.2	43.1	1.35	<0.05	19.05	0.453
TRD000852		45.0	450	16.2	183.0	<0.002	<0.01	0.65	12.2	1	3.9	64.8	1.25	<0.05	17.30	0.453
TRD000853		41.8	460	16.5	184.0	<0.002	<0.01	0.81	12.2	1	4.2	43.9	1.25	<0.05	17.65	0.443
TRD000854		43.2	500	16.9	188.0	<0.002	0.01	0.83	12.9	1	4.2	46.5	1.20	<0.05	17.35	0.433
TRD000855		13.9	120	10.9	69.3	<0.002	0.01	1.14	5.7	1	2.8	20.0	1.02	<0.05	10.05	0.359
TRD000856		14.9	130	12.4	59.9	<0.002	<0.01	0.77	6.2	1	2.4	23.6	0.80	<0.05	15.65	0.288
TRD000857		8.9	120	10.9	70.0	<0.002	<0.01	1.10	5.9	1	2.0	20.7	0.77	<0.05	14.00	0.282
TRD000858		11.0	120	8.9	66.3	<0.002	<0.01	0.67	6.2	1	2.2	19.2	0.76	<0.05	13.25	0.286
TRD000859		7.5	100	8.2	66.2	<0.002	<0.01	0.55	6.0	1	2.2	18.1	0.77	<0.05	12.35	0.280
TRD000860		6.3	100	7.4	76.9	<0.002	<0.01	0.83	6.2	<1	2.1	16.8	0.79	<0.05	12.70	0.290
TRD000861		6.4	100	7.9	71.0	<0.002	<0.01	0.79	6.1	1	2.3	19.9	0.82	<0.05	12.25	0.295
TRD000862		7.3	100	8.8	76.6	<0.002	<0.01	1.07	6.7	1	2.7	19.0	0.83	0.05	12.80	0.304
TRD000863		5.6	100	8.3	76.6	<0.002	<0.01	0.79	6.4	1	2.4	20.3	0.84	<0.05	12.60	0.316
TRD000864		40.8	410	5.9	35.5	<0.002	0.02	0.20	38.6	1	1.1	141.0	0.35	<0.05	3.65	0.420
TRD000865		8.0	130	9.2	55.4	<0.002	<0.01	0.72	6.5	1	2.1	25.3	0.76	<0.05	11.50	0.293
TRD000866		7.7	130	9.8	54.8	<0.002	0.02	0.59	7.0	1	1.8	31.9	0.73	<0.05	12.25	0.271
TRD000867		7.8	140	8.7	64.0	<0.002	0.02	0.56	8.1	1	2.0	27.3	0.72	<0.05	11.75	0.290
TRD000868		7.3	180	10.9	50.4	<0.002	0.02	0.48	7.3	<1	1.9	46.9	0.77	<0.05	11.10	0.292
TRD000869		9.1	190	12.4	54.0	<0.002	0.02	0.57	7.5	1	1.8	51.8	0.77	<0.05	12.35	0.293
TRD000870		9.7	150	10.4	56.5	<0.002	0.02	0.60	7.9	<1	1.9	28.4	0.72	<0.05	11.35	0.280
TRD000871		8.4	130	8.3	72.8	<0.002	0.02	0.78	7.5	<1	1.7	16.5	0.66	<0.05	10.30	0.253
TRD000872		17.4	390	11.8	110.0	<0.002	0.03	1.18	13.6	1	2.4	22.9	0.72	<0.05	13.15	0.262
TRD000873		19.4	350	17.7	139.0	<0.002	0.02	1.64	19.2	1	4.1	49.6	1.23	0.07	19.15	0.442
TRD000874		22.3	210	13.6	137.0	<0.002	0.02	2.88	18.3	1	3.8	53.9	1.15	<0.05	17.65	0.414
TRD000875		19.9	200	10.4	164.0	<0.002	0.02	1.40	17.4	1	3.9	69.3	1.22	0.05	19.00	0.433
TRD000876		32.4	140	10.0	181.0	<0.002	0.02	2.01	16.3	1	4.0	53.2	1.21	<0.05	17.95	0.442
TRD000877		36.6	160	11.2	178.5	<0.002	0.01	1.79	17.4	1	4.1	54.3	1.25	<0.05	19.00	0.453
TRD000878		44.6	140	15.0	164.5	<0.002	0.01	2.29	15.3	2	3.8	42.8	1.23	0.07	18.00	0.439
TRD000879		68.4	140	12.1	203	<0.002	0.01	0.65	17.9	1	4.3	47.4	1.24	0.05	19.05	0.446
TRD000880		83.1	100	10.7	206	<0.002	0.01	0.49	17.4	1	3.8	42.2	1.22	<0.05	19.20	0.429
TRD000881		42.3	110	10.2	194.5	<0.002	0.01	1.26	16.4	1	3.8	47.3	1.16	0.05	18.00	0.429
TRD000882		38.0	100	12.0	194.0	0.002	0.01	0.63	16.4	2	4.0	46.6	1.24	<0.05	18.55	0.441
TRD000883		50.1	110	14.4	183.0	<0.002	0.01	1.19	17.3	1	4.4	46.5	1.25	0.05	18.55	0.448
TRD000884		32.3	100	36.9	184.0	<0.002	0.01	1.33	16.1	2	4.0	37.0	1.30	0.05	19.40	0.450
TRD000885		30.1	140	19.0	137.5	<0.002	0.01	1.32	14.2	1	3.4	42.5	1.01	<0.05	15.95	0.371



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Project: Panama Project

**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	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000851		0.95	3.2	89	3.9	25.0	101	144.5
TRD000852		0.92	3.0	85	3.3	28.5	94	144.5
TRD000853		0.92	3.0	85	3.2	25.9	104	137.0
TRD000854		0.96	2.7	88	2.8	22.3	102	131.0
TRD000855		0.31	1.7	52	6.3	14.2	41	117.0
TRD000856		0.27	2.0	50	4.2	13.9	21	152.0
TRD000857		0.30	1.9	41	6.0	14.3	18	145.0
TRD000858		0.27	1.8	41	9.7	15.3	15	148.0
TRD000859		0.28	1.8	40	9.1	14.7	11	148.0
TRD000860		0.33	1.9	44	7.8	16.8	11	141.0
TRD000861		0.29	2.0	42	4.7	14.2	14	141.5
TRD000862		0.31	2.1	45	6.4	14.7	16	152.5
TRD000863		0.33	2.0	46	6.5	15.8	11	135.5
TRD000864		0.18	0.9	226	0.5	23.8	87	111.0
TRD000865		0.23	2.3	43	4.5	11.9	26	120.0
TRD000866		0.22	1.8	39	3.8	14.2	17	129.0
TRD000867		0.27	1.8	44	8.3	15.1	23	129.0
TRD000868		0.19	1.9	41	2.9	14.6	23	135.0
TRD000869		0.21	1.8	41	4.3	14.9	19	141.5
TRD000870		0.22	2.1	39	5.6	14.3	27	135.0
TRD000871		0.31	1.9	37	9.5	11.4	24	118.5
TRD000872		0.48	3.1	55	16.3	16.6	84	107.0
TRD000873		0.54	4.5	89	15.9	25.9	47	139.0
TRD000874		0.63	3.1	87	5.3	20.3	59	124.0
TRD000875		0.80	2.7	86	4.7	22.1	105	130.0
TRD000876		0.98	2.6	92	3.8	28.8	109	131.5
TRD000877		1.06	3.4	98	4.7	41.1	111	135.5
TRD000878		1.08	5.1	108	4.5	60.6	110	139.5
TRD000879		1.29	3.3	98	3.5	76.0	133	130.5
TRD000880		1.22	2.8	99	3.3	62.9	123	124.0
TRD000881		1.21	2.7	87	2.9	44.3	105	120.5
TRD000882		1.05	2.5	93	3.0	45.0	136	131.0
TRD000883		1.27	2.8	97	3.2	36.4	114	128.5
TRD000884		1.17	4.9	117	3.7	48.1	109	146.5
TRD000885		0.89	3.4	88	3.7	24.0	77	109.5



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Project: Panama Project

<b>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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**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
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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
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

**CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GRA21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000886		1.70	97.5	0.005		0.09	8.58	4.6	790	3.81	0.29	0.01	0.03	327	59.8	71
TRD000887		1.92		<0.005		0.03	8.67	1.4	720	3.30	0.41	0.01	0.02	75.1	15.9	70
TRD000888		1.35		<0.005		0.03	8.64	1.7	720	3.33	0.46	0.01	<0.02	120.5	19.2	72
TRD000889		1.20		<0.005		0.03	8.42	1.0	760	3.27	0.33	<0.01	<0.02	37.8	18.0	73
TRD000890		1.45		<0.005		0.03	8.67	0.9	830	2.96	0.25	<0.01	0.02	46.5	24.4	76
TRD000891		1.82		0.012		0.04	8.19	1.1	220	0.93	0.04	6.63	0.09	29.6	38.9	5
TRD000892		0.06		0.006		<0.01	0.10	0.7	<10	0.07	0.01	0.01	<0.02	2.51	0.4	5
TRD000893		0.07		1.075		0.28	7.10	54.0	140	0.40	0.04	7.21	0.53	12.40	41.2	123
TRD000894		0.06		>10.0	26.6	1.39	6.42	3890	560	2.31	0.67	0.84	0.08	67.8	11.9	104
TRD000895		0.06		3.22		0.22	7.77	670	710	2.28	0.37	0.81	0.06	84.0	13.7	133
TRD000896		0.71		0.010		0.02	5.88	6.0	400	2.14	0.15	0.01	<0.02	137.5	37.0	56
TRD000897		1.18		<0.005		0.01	4.18	1.8	310	1.38	0.06	0.01	<0.02	71.9	11.0	43
TRD000898		1.36		<0.005		0.01	3.83	2.2	270	1.21	0.06	0.03	0.02	63.0	10.2	42
TRD000899		1.28		<0.005		0.01	4.23	2.5	240	1.99	0.05	0.01	<0.02	92.7	17.2	43
TRD000900		1.51		<0.005		0.02	4.06	3.0	310	1.65	0.06	0.01	<0.02	77.8	22.3	42
TRD000901		1.84		<0.005		0.02	5.75	11.6	490	2.63	0.06	0.01	<0.02	81.5	16.4	56
TRD000902		1.47		<0.005		0.01	4.86	8.7	280	2.85	0.04	0.01	<0.02	91.7	15.2	48
TRD000903		2.08		0.005		0.01	4.35	4.3	260	2.31	0.08	0.01	<0.02	70.4	15.2	47
TRD000904		1.71		0.005		0.01	4.79	4.7	290	2.31	0.06	0.01	0.02	96.6	13.4	47
TRD000905		2.62		0.007		0.01	5.15	4.7	400	1.96	0.14	0.01	0.02	82.1	11.6	52
TRD000906		1.91		<0.005		0.02	5.34	3.0	440	2.15	0.22	0.01	<0.02	71.3	15.6	51
TRD000907		1.78		<0.005		0.02	6.74	4.1	570	3.03	0.25	0.01	0.03	83.0	19.8	60
TRD000908		1.83		<0.005		0.02	6.05	5.1	530	2.35	0.15	0.01	<0.02	84.0	12.4	56
TRD000909		2.15		0.011		0.01	4.21	3.5	280	1.51	0.06	0.01	<0.02	76.9	8.8	46
TRD000910		1.80		<0.005		0.01	3.87	2.9	270	1.44	0.05	0.01	<0.02	71.0	7.1	48
TRD000911		1.92		<0.005		0.01	3.77	3.7	280	1.42	0.05	0.01	<0.02	67.5	6.4	44
TRD000912		1.93		<0.005		0.01	4.07	5.8	310	1.37	0.07	0.01	<0.02	74.0	11.6	48
TRD000913		1.17		0.006		0.01	7.55	7.5	640	2.88	0.09	0.01	0.03	68.9	11.6	66
TRD000914		1.37		0.005		0.01	5.88	5.7	500	2.18	0.08	0.01	<0.02	70.2	9.4	58
TRD000915		2.37		<0.005		0.02	4.64	3.6	350	1.70	0.06	0.01	0.02	82.5	10.2	48
TRD000916		1.62		<0.005		0.03	7.30	2.3	600	2.63	0.21	0.01	0.03	93.5	13.5	65
TRD000917		1.78		<0.005		0.03	8.18	1.3	670	2.80	0.38	0.01	0.02	94.7	14.7	69
TRD000918		1.12		<0.005		0.03	7.94	2.3	630	2.88	0.47	0.01	0.04	93.4	15.8	67
TRD000919		1.87		<0.005		0.03	7.84	3.0	630	2.71	0.41	0.02	0.03	86.0	14.6	65
TRD000920		1.99		<0.005		0.03	8.07	4.8	660	2.80	0.43	0.02	0.02	92.2	16.3	69
TRD000921		1.63		<0.005		0.04	8.00	6.9	650	2.78	0.61	0.01	<0.02	96.0	17.0	69
TRD000922		1.34		0.010		0.06	7.99	1.3	210	0.78	0.03	6.44	0.09	29.4	38.7	6
TRD000923		1.54		<0.005		0.04	7.74	6.4	660	2.84	0.24	0.01	0.03	95.9	16.5	66
TRD000924		1.61		<0.005		0.03	4.87	9.4	390	2.03	0.09	0.01	0.02	79.9	10.1	49
TRD000925		1.20	96.0	0.076		0.02	4.12	7.4	240	1.81	0.06	0.03	0.02	76.3	6.4	46



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000886		12.50	38.1	5.18	22.2	0.15	3.4	0.077	3.10	40.8	25.1	0.46	1420	0.23	0.11	16.1
TRD000887		10.70	27.4	4.09	22.6	0.11	3.4	0.088	3.43	21.7	22.0	0.59	529	0.19	0.11	16.5
TRD000888		11.10	28.8	4.10	22.0	0.12	3.7	0.082	3.54	23.8	26.5	0.64	725	0.35	0.11	16.9
TRD000889		11.50	32.0	3.82	22.6	0.11	3.6	0.081	3.70	7.9	24.5	0.69	496	0.35	0.12	16.9
TRD000890		11.80	37.7	3.95	23.7	0.11	3.7	0.097	3.87	7.4	26.4	0.71	622	0.32	0.12	17.7
TRD000891		1.54	121.5	7.21	17.65	0.18	2.9	0.053	0.79	13.9	11.2	2.48	1225	0.44	1.48	5.6
TRD000892		0.06	4.9	0.34	0.32	<0.05	0.2	<0.005	0.01	1.2	13.2	0.01	30	0.66	0.01	1.0
TRD000893		0.73	162.5	7.81	15.70	0.10	1.5	0.078	0.36	5.0	10.7	3.83	1330	1.00	1.71	3.4
TRD000894		8.74	52.2	3.42	17.00	0.12	3.2	0.068	2.58	34.2	35.8	1.27	348	1.52	0.48	11.7
TRD000895		8.92	29.8	3.99	20.0	0.13	3.9	0.080	2.75	42.0	39.3	1.56	344	0.74	0.71	15.0
TRD000896		8.42	29.9	3.01	15.65	0.19	3.7	0.041	1.82	26.5	26.2	0.34	876	0.67	0.05	12.2
TRD000897		10.75	17.2	1.76	10.65	0.16	3.9	0.036	1.28	35.7	27.6	0.34	354	1.12	0.03	9.7
TRD000898		7.68	12.6	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
TRD000899		8.80	9.6	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
TRD000900		6.67	11.8	1.95	10.10	0.12	3.1	0.030	1.35	47.0	22.8	0.29	693	1.28	0.04	9.4
TRD000901		12.40	14.0	2.53	14.30	0.15	3.6	0.041	2.13	62.6	23.7	0.46	700	1.28	0.06	12.3
TRD000902		11.90	13.1	2.61	11.95	0.16	3.1	0.026	1.60	71.5	25.8	0.42	546	1.09	0.04	10.9
TRD000903		7.41	12.2	2.00	10.70	0.12	3.2	0.029	1.42	48.5	19.2	0.29	519	1.48	0.04	10.3
TRD000904		7.82	11.2	2.01	12.05	0.12	3.5	0.041	1.44	53.3	19.2	0.29	475	1.30	0.04	11.2
TRD000905		7.76	14.2	2.09	12.70	0.14	3.6	0.041	1.72	64.6	19.2	0.36	378	2.61	0.05	11.8
TRD000906		4.88	20.1	2.21	13.25	0.10	3.4	0.049	1.86	40.6	17.8	0.28	540	2.39	0.07	12.2
TRD000907		5.99	23.7	2.97	17.60	0.09	3.5	0.059	2.57	26.8	21.3	0.37	597	1.01	0.08	14.1
TRD000908		6.34	18.1	2.62	15.55	0.10	3.4	0.051	2.21	32.4	17.8	0.37	384	1.12	0.07	13.2
TRD000909		6.12	8.8	1.90	10.70	0.09	3.6	0.032	1.27	41.3	16.2	0.29	394	1.60	0.04	10.1
TRD000910		6.63	8.5	1.78	9.92	0.11	4.4	0.028	1.15	47.9	19.6	0.34	339	1.48	0.04	9.9
TRD000911		6.86	6.9	1.72	9.62	0.11	4.3	0.029	1.16	44.3	21.6	0.37	294	1.48	0.04	9.8
TRD000912		5.52	9.0	1.99	10.15	0.09	3.4	0.036	1.33	35.2	18.8	0.31	421	1.26	0.05	9.6
TRD000913		6.63	19.5	3.08	19.95	0.10	4.2	0.066	2.83	37.8	28.4	0.43	279	0.78	0.10	15.3
TRD000914		6.41	16.2	2.89	15.55	0.10	4.1	0.055	2.14	42.7	23.3	0.49	324	0.92	0.08	13.2
TRD000915		5.61	12.6	2.38	12.00	0.11	3.6	0.033	1.48	48.2	24.6	0.52	448	1.38	0.14	10.4
TRD000916		8.95	33.3	3.49	19.40	0.12	3.5	0.066	2.86	49.5	29.1	1.10	555	0.87	0.17	14.8
TRD000917		10.90	26.5	3.92	21.8	0.14	3.6	0.084	3.43	47.3	30.1	1.32	546	0.49	0.18	16.5
TRD000918		11.20	26.0	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
TRD000919		11.20	28.3	3.90	21.0	0.15	3.5	0.087	3.28	42.0	31.2	1.32	673	0.40	0.17	15.3
TRD000920		11.35	28.5	3.86	21.4	0.11	3.4	0.074	3.48	45.4	30.4	1.30	563	0.43	0.17	15.8
TRD000921		11.45	28.7	3.75	21.6	0.16	3.4	0.071	3.45	47.5	29.9	1.28	546	0.39	0.17	15.5
TRD000922		1.58	130.0	7.08	17.55	0.12	2.9	0.064	0.79	14.2	10.9	2.43	1215	0.51	1.43	5.3
TRD000923		11.45	40.8	3.73	21.3	0.15	4.0	0.077	3.23	46.5	28.6	1.17	497	0.55	0.15	16.1
TRD000924		8.36	15.6	2.37	13.00	0.12	3.8	0.035	1.67	40.8	26.2	0.58	404	1.04	0.09	11.4
TRD000925		5.87	9.0	1.94	10.90	0.09	5.5	0.027	1.30	37.4	22.8	0.38	258	0.92	0.06	11.3



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000886		35.7	340	17.1	153.5	<0.002	0.01	1.50	15.6	<1	4.1	53.1	1.24	<0.05	19.55	0.428
TRD000887		24.9	120	12.6	174.0	<0.002	0.01	0.96	16.2	<1	4.4	53.9	1.23	<0.05	20.4	0.444
TRD000888		35.3	150	11.6	177.0	<0.002	0.01	0.62	14.6	<1	4.5	63.1	1.27	0.05	20.7	0.446
TRD000889		28.5	100	10.9	173.5	<0.002	0.01	0.47	14.6	<1	4.6	43.2	1.27	<0.05	14.00	0.449
TRD000890		31.0	110	11.1	179.0	<0.002	0.01	0.50	15.8	<1	4.9	43.6	1.28	<0.05	14.50	0.468
TRD000891		41.4	420	6.0	26.1	<0.002	0.03	0.17	38.8	1	1.1	153.0	0.35	<0.05	3.60	0.411
TRD000892		2.9	10	0.7	0.4	<0.002	<0.01	0.17	0.4	<1	0.5	0.9	0.06	<0.05	0.68	0.031
TRD000893		86.3	420	21.7	11.2	0.003	0.32	1.32	40.1	1	1.0	189.5	0.20	0.10	0.80	0.590
TRD000894		47.1	500	33.0	147.5	<0.002	0.76	3590	11.4	1	3.4	100.5	0.85	0.05	11.75	0.366
TRD000895		61.1	600	20.3	162.5	<0.002	0.14	619	14.1	<1	3.8	104.5	1.08	<0.05	14.40	0.482
TRD000896		32.4	230	12.0	119.5	<0.002	0.01	0.72	11.5	<1	2.9	51.3	0.96	<0.05	15.35	0.344
TRD000897		27.6	190	7.3	102.5	<0.002	0.01	0.48	7.4	<1	2.2	28.6	0.82	<0.05	12.30	0.288
TRD000898		25.2	200	6.9	87.0	<0.002	0.01	0.51	6.3	<1	2.0	23.3	0.73	<0.05	11.70	0.275
TRD000899		28.3	250	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
TRD000900		31.0	260	7.1	80.8	<0.002	0.01	0.60	6.1	<1	2.1	26.0	0.69	<0.05	10.65	0.275
TRD000901		31.9	380	9.6	130.0	<0.002	0.01	0.63	9.2	<1	3.0	31.1	0.94	<0.05	13.75	0.347
TRD000902		34.0	480	9.5	122.0	<0.002	0.01	0.80	8.0	<1	2.3	21.3	0.81	<0.05	12.05	0.304
TRD000903		25.3	300	8.1	97.7	<0.002	0.01	1.13	6.9	<1	2.0	24.1	0.76	<0.05	11.60	0.290
TRD000904		25.3	250	8.7	103.0	<0.002	0.01	1.01	7.7	<1	2.4	23.5	0.84	<0.05	12.80	0.313
TRD000905		25.9	240	9.1	107.5	<0.002	0.01	1.38	8.0	<1	2.6	28.4	0.89	<0.05	13.10	0.333
TRD000906		23.3	210	8.1	91.8	<0.002	0.01	1.28	8.8	<1	2.8	33.5	0.91	<0.05	13.35	0.338
TRD000907		27.2	250	8.7	119.5	<0.002	0.01	1.76	12.3	<1	3.6	34.4	1.05	<0.05	15.95	0.387
TRD000908		24.3	230	7.9	112.5	<0.002	0.01	1.20	10.4	<1	3.3	28.5	0.98	<0.05	14.35	0.366
TRD000909		27.6	230	7.2	99.5	<0.002	0.01	0.71	7.0	<1	2.1	27.1	0.80	<0.05	12.05	0.291
TRD000910		34.0	240	6.9	87.3	<0.002	0.01	0.52	6.4	<1	2.1	35.3	0.77	<0.05	12.50	0.293
TRD000911		34.0	210	6.9	85.3	<0.002	0.01	0.52	6.1	<1	2.0	25.8	0.78	<0.05	12.50	0.289
TRD000912		32.8	250	9.1	85.0	<0.002	0.01	0.57	6.2	<1	2.3	27.0	0.76	<0.05	11.40	0.283
TRD000913		31.0	310	9.5	149.5	<0.002	0.01	0.84	12.7	<1	4.3	31.2	1.21	<0.05	20.4	0.418
TRD000914		29.9	290	7.8	126.0	<0.002	0.01	0.69	10.4	<1	3.4	32.8	1.05	<0.05	16.55	0.363
TRD000915		32.4	260	7.9	90.1	<0.002	0.01	0.51	7.4	<1	2.3	30.3	0.85	<0.05	12.60	0.306
TRD000916		35.9	230	11.8	169.0	<0.002	0.01	0.45	12.2	<1	4.0	45.7	1.13	<0.05	17.05	0.405
TRD000917		38.2	150	11.5	209	<0.002	0.01	0.40	14.1	<1	4.6	53.5	1.28	<0.05	19.55	0.450
TRD000918		37.6	140	12.4	209	<0.002	0.01	0.51	13.9	<1	4.3	52.6	1.23	<0.05	19.70	0.433
TRD000919		36.2	150	11.4	208	<0.002	0.01	0.50	13.6	<1	4.2	50.2	1.21	0.06	18.15	0.429
TRD000920		39.2	140	11.0	211	<0.002	0.02	0.67	14.0	1	4.3	46.1	1.23	0.05	19.05	0.442
TRD000921		39.4	140	11.6	204	<0.002	0.03	0.69	14.0	<1	4.4	46.0	1.20	0.06	19.55	0.439
TRD000922		43.2	410	6.1	35.6	<0.002	0.04	0.18	40.0	<1	1.1	144.0	0.35	<0.05	3.88	0.402
TRD000923		38.6	230	11.6	205	<0.002	0.02	0.74	13.8	<1	4.3	44.1	1.24	0.05	19.50	0.433
TRD000924		28.7	400	9.2	123.0	<0.002	0.01	0.72	8.0	<1	2.5	42.2	0.90	<0.05	13.65	0.312
TRD000925		24.2	280	7.8	104.0	<0.002	0.01	0.82	6.8	<1	2.1	27.0	0.89	<0.05	14.80	0.315



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61						
		Tl	U	V	W	Y	Zn	Zr
		ppm						
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000886		2.56	3.0	98	5.0	27.5	93	126.5
TRD000887		1.04	2.7	89	4.8	20.3	88	128.5
TRD000888		1.11	2.9	93	4.9	20.2	86	135.5
TRD000889		0.97	2.7	100	4.5	12.0	88	135.0
TRD000890		1.04	2.8	102	4.9	12.4	92	138.5
TRD000891		0.20	0.9	223	0.4	24.0	82	118.0
TRD000892		<0.02	0.1	2	0.2	0.7	2	7.7
TRD000893		0.19	0.2	263	26.0	20.7	134	52.6
TRD000894		0.80	2.2	83	7.6	12.2	90	114.5
TRD000895		0.82	2.5	107	2.9	17.7	101	145.0
TRD000896		0.91	2.8	67	9.5	18.5	64	124.0
TRD000897		0.53	2.1	43	7.2	21.9	65	126.0
TRD000898		0.45	2.1	41	6.3	20.6	55	139.0
TRD000899		0.62	2.3	44	7.8	27.2	62	127.5
TRD000900		0.76	2.2	43	5.2	23.3	58	118.0
TRD000901		0.90	2.6	62	4.6	32.4	74	131.0
TRD000902		0.89	2.9	52	5.0	39.6	79	116.5
TRD000903		0.63	2.4	47	5.6	31.1	52	126.5
TRD000904		0.63	2.6	52	6.3	30.0	50	130.0
TRD000905		0.61	2.6	59	5.6	28.4	65	131.5
TRD000906		0.51	2.8	60	4.5	21.8	64	127.0
TRD000907		0.70	3.3	76	4.9	20.9	65	130.0
TRD000908		0.55	2.9	67	5.0	21.0	57	124.0
TRD000909		0.54	2.3	46	6.6	23.9	60	131.0
TRD000910		0.41	2.3	42	5.6	25.8	84	155.5
TRD000911		0.42	2.3	41	3.7	26.2	88	151.5
TRD000912		0.46	2.4	44	4.6	21.3	68	124.0
TRD000913		0.63	3.4	83	8.3	27.2	57	148.5
TRD000914		0.55	3.1	65	4.3	25.1	72	148.0
TRD000915		0.46	2.7	49	2.9	30.8	79	125.0
TRD000916		0.82	2.6	80	3.2	27.8	90	128.5
TRD000917		0.88	2.6	90	3.1	24.0	102	131.0
TRD000918		0.93	2.6	91	2.9	24.9	108	128.5
TRD000919		0.89	2.5	87	2.8	22.6	111	124.5
TRD000920		0.93	2.6	88	3.0	23.7	108	127.0
TRD000921		0.90	2.6	86	3.0	23.9	103	123.0
TRD000922		0.21	0.9	214	0.4	25.1	86	113.0
TRD000923		0.94	2.9	88	3.6	26.7	100	141.0
TRD000924		0.66	3.2	52	6.4	31.4	62	133.5
TRD000925		0.48	3.2	44	9.5	20.1	49	188.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000926		0.91	<0.005			0.01	4.17	6.3	310	1.62	0.05	0.01	<0.02	72.3	7.0	42
TRD000927		1.18	<0.005			0.02	3.66	4.5	260	1.40	0.05	0.01	<0.02	65.5	6.2	42
TRD000928		1.60	0.005			0.02	4.31	7.1	290	1.84	0.05	0.01	0.02	70.8	9.7	44
TRD000929		1.03	<0.005			0.02	8.10	2.9	670	3.06	0.21	0.01	0.03	95.7	16.8	71
TRD000930		1.76	<0.005			0.02	7.91	1.7	660	2.78	0.30	0.01	<0.02	87.9	12.4	65
TRD000931		1.78	<0.005			0.02	4.38	2.8	320	1.80	0.10	0.01	0.02	69.7	9.5	46
TRD000932		1.16	<0.005			0.02	5.10	7.7	360	2.15	0.06	0.01	0.04	80.0	14.4	50
TRD000933		1.35	<0.005			0.02	4.52	4.5	280	1.81	0.07	0.01	<0.02	69.7	9.4	46
TRD000934		1.01	<0.005			0.04	8.05	2.8	630	2.72	0.37	0.01	0.04	91.3	14.8	67
TRD000935		1.64	<0.005			0.07	7.88	2.5	570	2.61	0.47	0.06	0.03	82.9	16.7	65
TRD000936		2.38	<0.005			0.03	7.79	1.5	580	2.58	0.44	0.08	0.03	86.0	16.2	65
TRD000937		1.21	<0.005			0.03	7.96	0.8	580	2.53	0.40	0.07	0.02	87.4	17.0	67
TRD000938		1.21	<0.005			0.04	7.64	2.5	560	2.96	0.48	0.08	0.02	94.6	16.4	64
TRD000939		1.67	<0.005			0.05	7.94	2.4	570	2.81	0.52	0.07	0.02	95.8	18.8	67
TRD000940		1.92	<0.005			0.02	7.61	2.3	530	2.96	0.39	0.10	0.02	92.4	16.8	64
TRD000941		0.83	<0.005			0.04	7.65	1.7	530	2.82	0.40	0.09	0.03	90.4	17.6	65
TRD000942		1.01	<0.005			0.04	7.88	1.6	540	2.96	0.40	0.05	<0.02	95.6	18.2	67
TRD000943		0.95	<0.005			0.03	7.48	2.0	500	3.07	0.35	0.07	0.02	101.5	17.8	64
TRD000944		0.73	<0.005			0.04	6.86	2.2	480	2.80	0.34	0.04	0.02	96.0	17.0	62
TRD000945		0.65	<0.005			0.03	7.35	2.5	500	3.00	0.36	0.04	0.02	97.3	16.6	65
TRD000946		0.79	<0.005			0.05	7.67	2.4	520	3.15	0.46	0.06	0.03	96.2	17.0	63
TRD000947		1.03	<0.005			0.03	7.45	2.8	500	3.03	0.37	0.07	0.03	96.3	16.9	65
TRD000948		1.70	<0.005			0.02	7.62	3.2	530	2.92	0.47	0.05	0.03	100.0	16.8	65
TRD000949		1.23	0.010			0.05	7.74	1.2	210	0.80	0.04	6.49	0.10	30.9	38.9	5
TRD000950		0.95	<0.005			0.03	7.34	3.5	470	3.00	0.33	0.10	0.02	99.7	16.8	61
TRD000951		NSS														
TRD000952		0.34	0.005			0.03	8.22	7.1	500	2.28	0.35	0.02	0.02	33.5	4.6	76
TRD000953		0.58	0.005			0.02	8.46	2.1	630	2.59	0.35	0.06	0.03	35.5	4.0	68
TRD000954		0.67	0.006			0.03	8.89	1.4	680	3.19	0.40	0.01	<0.02	59.1	3.4	69
TRD000955		1.10	0.009			0.01	8.48	1.1	710	2.78	0.25	0.01	<0.02	53.6	3.2	71
TRD000956		1.08	0.008			0.01	8.51	1.5	1100	3.16	0.25	0.01	<0.02	46.9	3.3	69
TRD000957		3.41	0.007			0.01	9.10	1.5	870	3.16	0.35	0.01	<0.02	55.1	3.7	69
TRD000958		1.22	0.007			0.01	8.32	0.7	610	2.54	0.51	0.01	<0.02	54.1	3.8	69
TRD000959		1.47	0.008			0.01	8.28	0.9	590	2.79	0.49	0.01	<0.02	55.8	3.8	71
TRD000960		1.24	0.006			0.01	8.07	0.8	560	2.82	0.56	0.01	0.02	56.7	3.7	71
TRD000961		1.82	0.017			0.01	8.70	1.4	750	2.73	0.38	0.01	<0.02	51.0	3.4	64
TRD000962		1.48	0.007			0.02	7.92	0.6	660	2.82	0.52	0.01	<0.02	270	26.8	61
TRD000963		1.72	<0.005			0.01	7.96	0.4	740	2.74	0.39	0.01	0.02	157.0	21.4	64
TRD000964		1.85	0.005			0.01	8.19	0.5	660	3.12	0.36	0.01	<0.02	125.0	21.6	67
TRD000965		1.43	95.4	<0.005		0.02	8.17	0.4	620	3.01	0.44	0.01	<0.02	191.0	21.6	65



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 Finalized Date: 20-JUN-2022  
 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000926		7.31	6.3	1.87	10.75	0.09	4.2	0.024	1.32	35.8	25.3	0.42	281	0.96	0.08	10.5
TRD000927		5.38	6.4	1.70	9.29	0.08	4.1	0.030	1.10	32.3	19.8	0.36	263	1.23	0.09	9.6
TRD000928		5.50	9.8	2.14	10.95	0.10	3.4	0.031	1.24	34.7	24.1	0.49	305	1.32	0.12	10.2
TRD000929		10.90	29.0	3.77	21.5	0.16	3.7	0.081	3.41	46.0	32.2	1.04	395	0.54	0.12	15.9
TRD000930		10.60	31.2	3.60	20.4	0.15	3.7	0.072	3.42	42.5	26.6	1.11	365	0.47	0.14	15.9
TRD000931		8.66	12.2	2.17	11.65	0.09	3.6	0.037	1.46	34.1	24.2	0.63	460	1.02	0.13	10.5
TRD000932		8.49	10.4	2.41	13.00	0.10	3.6	0.038	1.67	36.4	28.5	0.50	538	0.92	0.11	11.7
TRD000933		9.95	13.5	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
TRD000934		10.10	50.3	3.61	21.4	0.15	3.4	0.086	3.31	45.3	28.6	1.20	495	0.68	0.19	15.8
TRD000935		11.15	35.6	4.00	21.4	0.16	3.3	0.086	3.25	39.9	33.0	1.36	710	0.77	0.20	15.6
TRD000936		11.70	27.3	3.85	21.2	0.16	3.5	0.076	3.16	41.3	33.3	1.33	905	0.38	0.25	15.6
TRD000937		11.45	28.8	4.00	21.3	0.16	3.3	0.072	3.26	42.0	34.1	1.37	988	0.35	0.25	15.5
TRD000938		10.20	29.4	3.73	20.9	0.15	3.4	0.078	3.05	46.4	36.5	1.26	848	0.39	0.26	15.5
TRD000939		12.35	29.9	3.96	21.2	0.16	3.4	0.075	3.13	47.6	36.9	1.39	1150	0.43	0.29	15.8
TRD000940		14.15	32.9	3.88	20.5	0.16	3.5	0.076	3.09	45.1	34.7	1.32	1215	0.42	0.28	15.5
TRD000941		16.45	44.6	3.80	20.6	0.17	3.5	0.088	3.06	44.1	36.6	1.36	1390	0.46	0.28	15.2
TRD000942		11.95	33.3	3.89	21.3	0.15	3.4	0.071	3.12	45.8	39.1	1.39	1095	0.37	0.22	15.8
TRD000943		14.65	28.4	3.62	19.30	0.12	3.7	0.064	2.86	48.8	44.0	1.32	1375	0.37	0.17	15.5
TRD000944		13.45	50.1	3.50	18.30	0.12	3.8	0.056	2.68	47.3	36.1	1.22	854	0.56	0.20	14.5
TRD000945		11.95	32.2	3.55	19.20	0.14	3.6	0.069	2.90	47.4	37.8	1.26	659	0.42	0.18	14.8
TRD000946		11.05	28.4	3.62	20.3	0.14	3.7	0.076	3.06	47.7	38.4	1.29	723	0.42	0.18	15.2
TRD000947		12.25	28.2	3.64	19.95	0.14	3.6	0.067	2.91	47.6	39.9	1.28	940	0.35	0.18	14.8
TRD000948		12.75	27.8	3.65	20.4	0.14	3.5	0.067	3.04	49.6	41.0	1.29	820	0.32	0.17	15.0
TRD000949		1.64	122.5	7.07	16.70	0.14	2.9	0.060	0.75	14.9	11.8	2.49	1220	0.52	1.39	5.3
TRD000950		15.50	29.2	3.59	19.90	0.12	3.8	0.069	2.90	50.0	36.8	1.28	1320	0.38	0.15	14.8
TRD000951																
TRD000952		5.04	30.0	3.55	22.1	0.10	3.1	0.085	2.24	20.5	14.2	0.30	262	1.01	0.09	15.8
TRD000953		4.50	24.9	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
TRD000954		4.85	21.1	2.73	22.5	0.08	4.0	0.074	2.40	32.9	9.5	0.24	243	0.28	0.08	16.8
TRD000955		4.86	14.0	2.71	22.1	0.08	3.8	0.079	2.69	30.6	9.3	0.26	195	0.25	0.09	16.2
TRD000956		5.02	29.7	2.98	22.7	0.09	3.7	0.091	2.70	24.0	10.4	0.24	183	0.22	0.10	15.8
TRD000957		5.38	23.2	3.11	23.4	0.09	3.7	0.088	2.88	30.9	10.8	0.28	206	0.28	0.10	16.6
TRD000958		5.71	22.5	3.53	22.0	0.09	3.7	0.070	2.94	28.0	11.2	0.28	194	0.30	0.10	16.0
TRD000959		5.49	22.6	3.73	22.0	0.09	3.7	0.071	3.05	25.2	10.7	0.28	173	0.28	0.10	16.5
TRD000960		5.19	21.4	3.57	22.1	0.08	3.5	0.086	2.91	27.7	10.4	0.27	183	0.26	0.10	16.3
TRD000961		5.55	21.1	3.17	22.2	0.09	3.9	0.077	2.85	23.3	10.3	0.29	326	0.26	0.09	15.8
TRD000962		6.86	32.2	3.29	21.2	0.10	3.6	0.075	2.66	37.2	21.2	0.33	1175	0.21	0.08	14.5
TRD000963		8.19	30.5	3.71	20.9	0.11	3.4	0.071	3.11	36.3	18.9	0.45	775	0.22	0.09	14.6
TRD000964		8.22	42.2	3.73	21.7	0.14	3.5	0.073	3.05	46.0	19.3	0.41	954	0.42	0.09	15.4
TRD000965		9.72	26.0	4.07	21.7	0.17	3.5	0.076	3.34	58.3	22.1	0.49	954	0.27	0.10	15.4



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Finalized Date: 20-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000926		30.6	270	6.8	96.2	<0.002	0.01	0.56	6.4	<1	2.4	38.8	0.85	<0.05	13.05	0.297
TRD000927		25.5	230	6.7	76.4	<0.002	<0.01	0.55	5.7	<1	2.2	30.4	0.78	<0.05	11.40	0.275
TRD000928		29.9	330	7.9	84.7	<0.002	<0.01	0.56	6.6	<1	2.2	32.0	0.77	<0.05	11.85	0.284
TRD000929		36.2	370	10.0	201	<0.002	<0.01	0.53	13.9	<1	4.2	42.5	1.25	<0.05	19.95	0.441
TRD000930		32.0	310	10.0	203	<0.002	<0.01	0.58	13.0	<1	4.4	41.6	1.24	<0.05	19.75	0.424
TRD000931		29.5	290	8.5	113.0	<0.002	<0.01	0.48	7.1	<1	2.4	42.8	0.84	<0.05	11.95	0.303
TRD000932		32.8	400	9.9	129.0	<0.002	<0.01	0.72	8.0	<1	2.7	26.8	0.92	<0.05	13.65	0.327
TRD000933		30.5	420	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
TRD000934		37.2	260	12.8	198.5	<0.002	0.01	0.77	13.8	<1	4.3	44.0	1.21	<0.05	19.65	0.430
TRD000935		40.1	320	18.3	206	<0.002	0.02	1.02	13.9	<1	4.3	42.2	1.19	<0.05	18.95	0.418
TRD000936		38.5	390	18.8	203	<0.002	0.01	0.68	13.9	<1	4.2	39.5	1.21	0.05	18.95	0.424
TRD000937		40.0	340	17.4	211	<0.002	0.01	0.72	14.0	<1	4.2	38.9	1.20	0.05	18.90	0.431
TRD000938		38.2	390	23.0	196.0	<0.002	0.01	0.82	13.6	<1	4.3	44.1	1.19	<0.05	19.90	0.411
TRD000939		43.4	370	30.3	206	<0.002	0.01	0.75	13.8	<1	4.2	38.0	1.22	0.06	19.25	0.432
TRD000940		39.0	440	18.6	215	<0.002	0.01	0.82	13.4	<1	4.1	36.7	1.20	<0.05	18.95	0.421
TRD000941		40.4	370	25.8	225	<0.002	0.02	0.92	13.3	<1	4.1	38.3	1.17	<0.05	19.45	0.419
TRD000942		41.6	270	21.9	199.0	<0.002	0.01	0.79	13.9	<1	4.3	40.4	1.20	<0.05	20.2	0.420
TRD000943		43.9	270	22.3	194.0	<0.002	0.01	0.83	13.3	<1	3.8	41.1	1.24	<0.05	19.20	0.414
TRD000944		39.9	230	19.4	174.5	0.002	0.02	0.77	12.2	<1	3.7	35.3	1.14	<0.05	18.40	0.395
TRD000945		38.9	220	18.1	174.5	<0.002	0.01	0.87	13.0	1	3.9	36.6	1.17	<0.05	18.70	0.396
TRD000946		40.7	310	22.7	180.5	<0.002	0.01	0.75	13.8	<1	3.9	41.0	1.21	0.06	19.70	0.419
TRD000947		39.8	320	19.0	180.5	<0.002	0.01	0.77	13.6	<1	4.1	38.4	1.19	<0.05	18.70	0.405
TRD000948		40.8	290	17.6	190.5	<0.002	0.01	0.65	14.1	1	4.1	37.5	1.21	<0.05	19.55	0.407
TRD000949		43.2	400	6.1	36.4	<0.002	0.03	0.17	41.7	1	1.1	137.0	0.36	<0.05	3.77	0.402
TRD000950		39.6	340	19.0	206	<0.002	0.01	0.81	13.4	1	4.0	37.2	1.21	<0.05	19.00	0.408
TRD000951																
TRD000952		23.3	120	16.6	126.5	<0.002	0.02	0.71	13.9	1	4.1	34.8	1.19	0.05	17.70	0.424
TRD000953		19.4	160	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
TRD000954		19.8	260	21.0	131.0	<0.002	0.01	0.50	14.1	1	4.3	96.6	1.31	<0.05	24.3	0.450
TRD000955		18.9	200	14.4	137.0	<0.002	0.01	0.54	14.4	1	4.2	78.1	1.32	<0.05	22.6	0.441
TRD000956		18.9	200	17.5	139.5	<0.002	0.01	0.53	14.6	1	5.4	86.1	1.39	<0.05	20.0	0.423
TRD000957		19.1	200	17.0	146.0	<0.002	0.01	0.49	15.3	1	4.9	78.7	1.36	0.05	22.9	0.460
TRD000958		15.8	180	16.1	155.0	<0.002	0.01	0.50	15.4	<1	4.2	66.7	1.24	0.05	22.4	0.441
TRD000959		15.5	180	15.8	154.5	<0.002	0.01	0.55	15.2	1	4.3	62.2	1.31	<0.05	23.5	0.443
TRD000960		14.9	180	15.5	156.0	<0.002	0.01	0.52	14.9	1	4.2	74.9	1.26	<0.05	21.5	0.424
TRD000961		16.3	210	17.5	155.5	<0.002	0.01	0.61	14.8	<1	4.3	97.2	1.36	0.05	22.6	0.422
TRD000962		31.8	180	14.2	148.0	<0.002	0.01	0.48	15.2	1	4.0	57.2	1.22	<0.05	20.1	0.408
TRD000963		27.3	130	11.8	177.5	<0.002	0.01	0.40	14.6	1	4.0	54.3	1.19	<0.05	20.0	0.409
TRD000964		33.7	140	11.2	187.0	<0.002	0.01	0.44	15.1	<1	4.1	54.4	1.22	0.05	19.85	0.424
TRD000965		39.2	120	10.5	210	<0.002	0.01	0.41	14.6	<1	4.2	48.1	1.23	<0.05	19.80	0.428



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000926		0.46	2.7	43	4.6	22.0	74	149.0
TRD000927		0.35	2.4	37	3.8	19.8	58	142.0
TRD000928		0.37	2.6	46	3.3	21.9	65	122.0
TRD000929		0.88	2.9	89	3.3	24.8	101	132.5
TRD000930		0.82	2.8	85	3.1	25.5	99	137.5
TRD000931		0.53	2.3	46	3.9	23.0	71	128.5
TRD000932		0.70	2.9	55	6.0	22.2	60	128.5
TRD000933		0.54	2.7	47	3.1	23.0	60	117.0
TRD000934		0.80	3.2	91	3.9	26.5	90	124.5
TRD000935		0.88	2.6	88	3.1	25.3	102	117.0
TRD000936		0.91	2.8	88	3.4	26.3	94	126.0
TRD000937		0.91	2.7	91	3.7	27.3	96	120.5
TRD000938		0.87	3.1	85	4.5	30.3	92	127.5
TRD000939		0.95	2.9	92	3.8	28.8	97	122.5
TRD000940		1.01	2.7	84	3.6	27.6	94	125.5
TRD000941		1.05	3.0	86	4.6	27.4	92	127.5
TRD000942		0.89	2.9	90	4.7	28.7	101	124.5
TRD000943		0.96	3.0	83	6.0	27.6	87	130.0
TRD000944		0.89	3.5	78	5.2	27.4	79	131.0
TRD000945		0.84	3.2	81	6.3	25.8	88	127.0
TRD000946		0.82	3.0	86	5.2	25.9	92	128.5
TRD000947		0.86	3.0	84	5.8	27.7	92	123.5
TRD000948		0.91	2.9	86	6.7	28.6	96	121.0
TRD000949		0.21	1.0	215	0.5	23.8	83	110.5
TRD000950		0.97	3.0	85	6.2	28.0	85	130.5
TRD000951								
TRD000952		0.53	2.5	92	3.6	14.4	64	118.0
TRD000953		0.47	2.5	93	3.3	15.1	81	123.5
TRD000954		0.50	2.7	95	2.9	18.5	70	141.0
TRD000955		0.51	2.7	93	3.4	16.6	50	132.0
TRD000956		0.55	2.6	91	2.9	15.3	61	125.5
TRD000957		0.57	2.8	98	3.2	17.1	64	131.0
TRD000958		0.59	3.0	93	2.8	15.6	57	128.0
TRD000959		0.60	3.0	94	2.7	15.5	55	130.0
TRD000960		0.59	3.1	90	2.8	16.3	55	130.0
TRD000961		0.62	4.3	91	2.9	13.6	54	130.0
TRD000962		0.89	3.7	88	2.8	19.4	95	119.0
TRD000963		0.92	2.8	88	2.8	22.4	84	118.5
TRD000964		0.88	2.9	93	2.8	26.8	96	119.0
TRD000965		0.97	2.8	92	2.8	33.2	82	122.0



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD000966		1.92		<0.005		0.02	8.09	0.4	650	3.17	0.43	0.01	<0.02	145.0	18.8	65
TRD000967		1.60		<0.005		0.01	8.16	0.6	620	3.22	0.31	0.01	0.02	125.5	17.9	65
TRD000968		1.86		<0.005		0.03	8.12	0.8	520	3.69	0.32	<0.01	0.02	76.5	19.0	68
TRD000969		1.62		0.021		0.05	8.31	39.0	490	3.51	0.58	0.01	0.07	114.0	37.2	69
TRD000970		1.77		0.092		0.06	7.92	13.8	460	3.54	0.40	0.01	0.09	121.0	38.3	66
TRD000971		1.49		0.021		0.02	8.23	3.0	500	3.59	0.16	<0.01	0.03	157.5	25.9	67
TRD000972		1.49		0.010		0.01	8.18	1.7	520	3.18	0.20	<0.01	<0.02	182.5	40.1	68
TRD000973		1.83		0.009		0.01	8.11	1.0	530	3.04	0.14	<0.01	<0.02	105.0	28.9	66
TRD000974		2.59		0.009		0.01	7.81	1.1	510	3.18	0.21	0.01	0.02	150.0	18.4	64
TRD000975		1.24		0.020		0.03	6.57	1.9	370	2.95	0.31	0.01	0.02	248	30.2	55
TRD000976		0.99		0.016		0.05	7.90	1.5	210	0.88	0.06	6.43	0.10	31.8	38.2	6
TRD000977		2.33		0.013		0.01	7.87	0.9	510	3.15	0.24	0.01	<0.02	97.7	18.2	64
TRD000978		1.86		0.008		0.01	8.26	0.9	550	3.12	0.35	0.01	0.03	116.5	18.8	67
TRD000979		1.54		0.007		0.02	7.93	0.7	560	2.84	0.52	0.02	<0.02	98.9	14.5	62
TRD000980		1.58		0.005		0.01	7.73	0.6	720	2.74	0.15	<0.01	0.02	90.5	10.2	61
TRD000981		1.96		0.005		0.02	7.88	0.7	620	2.95	0.30	<0.01	0.02	108.5	16.2	65
TRD000982		2.44		<0.005		0.02	7.99	0.5	570	3.14	0.48	0.01	0.02	78.8	9.0	65
TRD000983		1.36		<0.005		0.01	7.63	0.8	580	3.04	0.30	0.01	<0.02	91.2	15.0	62
TRD000984		1.17		0.016		0.02	7.63	0.6	780	2.89	0.17	0.01	<0.02	97.9	17.9	61
TRD000985		1.92		0.011		0.04	8.64	4.1	880	3.36	0.32	0.01	0.02	73.9	21.7	48
TRD000986		1.57		0.012		0.02	7.74	1.0	790	2.75	0.40	0.01	<0.02	95.3	17.9	61
TRD000987		1.53		0.014		0.01	7.83	1.0	630	3.00	0.10	0.01	0.02	92.6	20.4	66
TRD000988		2.11		1.825		0.02	7.67	0.7	560	3.03	0.23	0.01	0.02	80.5	18.1	64
TRD000989		1.50		0.009		0.02	7.84	0.3	550	3.08	0.54	0.01	0.02	97.0	21.6	65
TRD000990		1.45		0.005		0.08	7.70	0.3	550	3.07	0.65	0.01	0.02	95.7	17.6	65
TRD000991		0.86		0.008		0.02	7.89	0.4	530	2.98	0.39	0.01	<0.02	94.1	15.6	69
TRD000992		1.25		0.009		0.01	7.88	0.8	530	2.82	0.39	0.01	<0.02	89.1	14.0	66
TRD000993		1.53		0.015		0.03	7.82	1.6	570	3.03	0.30	0.01	<0.02	70.3	14.3	64
TRD000994		2.36		0.207		0.01	7.83	2.4	640	2.91	0.33	<0.01	0.02	93.0	12.4	60
TRD000995		1.77		0.017		0.03	7.06	2.7	840	3.15	0.23	0.01	<0.02	77.0	10.8	50
TRD000996		2.08		0.011		0.02	7.58	1.3	660	3.23	0.16	0.01	<0.02	101.0	13.4	64
TRD000997		1.12		0.005		0.01	7.89	1.2	550	3.29	0.12	0.01	0.03	99.2	13.8	65
TRD000998		2.19		0.007		0.03	8.11	1.1	660	3.33	0.21	0.01	<0.02	96.8	18.6	67
TRD000999		1.87		<0.005		0.01	8.09	0.8	590	3.28	0.21	0.01	0.02	94.3	18.5	68
TRD001000		2.30		0.031		0.03	7.45	0.8	490	3.11	0.46	0.01	0.02	92.2	17.2	64
TRD001001		1.18		0.005		0.04	6.85	0.9	420	3.11	0.59	0.01	0.02	94.3	17.2	59
TRD001002		0.83		0.012		0.05	7.53	1.1	200	0.74	0.04	6.29	0.08	28.1	38.5	6
TRD001003		1.75		0.008		0.02	7.85	0.6	460	2.98	0.30	0.01	<0.02	85.0	19.4	62
TRD001004		3.66		0.006		0.03	8.13	2.0	540	3.07	0.24	0.01	<0.02	97.1	20.0	66
TRD001005		2.35	99.4	0.012		0.02	8.26	1.1	640	3.29	0.17	0.02	<0.02	97.3	21.4	68



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Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD000966		12.85	24.6	3.94	21.3	0.18	3.5	0.074	3.18	65.2	23.4	0.51	943	0.27	0.09	15.2
TRD000967		12.30	24.4	4.11	21.8	0.19	3.6	0.079	3.20	82.2	31.5	0.60	995	0.24	0.09	15.9
TRD000968		8.25	51.1	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
TRD000969		9.45	83.1	3.28	22.1	0.29	3.6	0.076	2.73	145.5	26.6	0.88	1095	5.01	0.16	15.7
TRD000970		6.56	69.2	4.01	21.7	0.20	3.4	0.067	2.61	88.1	29.5	0.83	1050	2.38	0.14	15.3
TRD000971		7.53	17.2	4.26	22.2	0.15	3.3	0.063	2.82	49.2	32.2	0.71	987	0.61	0.10	15.2
TRD000972		9.71	21.1	4.21	22.0	0.12	3.4	0.068	3.00	41.0	24.7	0.48	1180	0.34	0.09	16.1
TRD000973		10.05	16.3	4.00	21.4	0.12	3.4	0.083	3.07	31.4	24.5	0.48	824	0.23	0.08	15.3
TRD000974		10.90	15.6	3.55	20.5	0.17	3.5	0.066	2.96	68.0	23.2	0.54	668	0.26	0.08	15.3
TRD000975		8.38	30.6	2.55	17.50	0.15	3.8	0.055	2.08	57.9	25.2	0.39	1240	0.31	0.06	14.5
TRD000976		1.67	124.5	7.09	17.20	0.13	2.9	0.059	0.78	15.0	11.3	2.41	1205	0.48	1.42	5.3
TRD000977		8.48	15.2	3.41	21.2	0.16	3.4	0.084	2.90	60.0	26.0	0.56	577	0.23	0.08	15.2
TRD000978		8.69	15.4	3.71	21.4	0.19	3.3	0.079	3.17	88.3	32.9	0.66	516	0.35	0.09	15.6
TRD000979		8.65	17.2	3.03	21.0	0.17	3.2	0.063	3.05	71.9	29.5	0.61	319	0.24	0.09	15.3
TRD000980		7.33	19.9	2.82	20.2	0.10	3.1	0.074	3.02	43.1	26.5	0.52	261	0.21	0.09	14.7
TRD000981		7.56	27.1	3.12	20.4	0.13	3.3	0.079	3.10	50.4	25.1	0.50	509	0.30	0.09	14.9
TRD000982		8.44	21.4	3.17	20.9	0.13	3.2	0.067	3.24	53.7	23.1	0.59	219	0.18	0.10	14.9
TRD000983		7.15	18.8	3.20	20.3	0.13	3.1	0.070	2.93	59.4	24.5	0.78	412	0.25	0.09	14.8
TRD000984		7.41	7.3	3.07	20.1	0.13	3.1	0.075	2.88	58.0	25.1	0.83	428	0.45	0.09	15.0
TRD000985		11.05	24.3	3.21	21.6	0.13	3.6	0.085	3.39	39.8	30.7	1.02	552	0.48	0.10	15.8
TRD000986		8.08	9.2	2.98	20.4	0.12	3.4	0.069	2.98	51.1	24.5	0.97	573	0.41	0.09	16.3
TRD000987		8.84	12.2	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
TRD000988		8.72	11.3	4.12	20.3	0.13	3.1	0.068	2.93	41.9	24.9	1.07	541	0.42	0.08	14.6
TRD000989		8.81	50.2	3.25	20.4	0.13	3.1	0.079	3.03	49.8	24.7	1.21	541	0.33	0.09	14.9
TRD000990		8.66	50.5	2.94	20.4	0.13	3.3	0.076	3.04	49.0	22.5	1.16	466	0.48	0.09	15.4
TRD000991		8.37	27.8	3.08	21.1	0.13	3.4	0.070	3.03	47.6	23.2	1.14	513	0.46	0.09	15.6
TRD000992		8.67	24.3	2.95	20.7	0.13	3.2	0.083	3.02	46.4	23.2	1.01	473	0.30	0.09	15.4
TRD000993		9.75	16.5	4.09	20.5	0.11	3.1	0.061	3.02	37.1	22.9	0.86	469	0.42	0.09	15.0
TRD000994		8.57	19.7	3.53	21.5	0.12	3.1	0.076	3.05	46.7	26.6	0.54	382	0.53	0.09	15.1
TRD000995		12.25	16.4	4.06	19.65	0.11	2.8	0.063	2.42	37.5	25.8	0.58	293	0.97	0.07	12.8
TRD000996		10.30	8.6	3.32	20.5	0.12	3.0	0.072	2.88	50.2	26.7	0.89	318	0.79	0.08	14.8
TRD000997		10.60	15.6	3.19	21.4	0.15	3.2	0.086	3.09	49.9	29.8	1.03	343	0.42	0.09	15.0
TRD000998		13.10	21.5	3.51	21.8	0.13	3.3	0.076	3.12	48.8	32.6	1.17	699	0.39	0.08	15.2
TRD000999		12.90	14.2	3.58	21.4	0.13	3.1	0.071	3.23	47.8	29.8	1.23	629	0.31	0.09	14.7
TRD001000		16.80	32.2	3.21	19.50	0.14	3.1	0.080	2.83	47.1	32.2	1.33	743	0.38	0.07	14.4
TRD001001		17.65	35.9	3.44	17.65	0.13	2.8	0.067	2.51	48.8	33.8	1.39	811	0.46	0.06	13.0
TRD001002		1.63	124.5	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
TRD001003		16.00	15.9	3.77	20.6	0.13	3.1	0.084	2.88	42.3	34.6	1.51	777	0.55	0.08	15.2
TRD001004		11.30	30.4	3.76	22.0	0.15	3.4	0.080	3.19	48.8	28.5	1.15	628	0.92	0.12	16.7
TRD001005		11.30	11.1	3.91	22.1	0.15	3.4	0.083	3.19	49.1	32.9	1.36	750	0.49	0.14	15.9



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Finalized Date: 20-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD000966		37.3	120	12.7	219	<0.002	0.01	0.44	14.7	<1	4.1	45.6	1.23	<0.05	20.0	0.427
TRD000967		40.4	100	11.6	219	<0.002	0.01	0.43	14.6	<1	4.3	31.7	1.26	0.05	19.90	0.425
TRD000968		56.7	100	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
TRD000969		58.2	110	28.3	168.0	0.002	<0.01	0.55	15.0	<1	4.3	33.6	1.23	0.08	20.3	0.431
TRD000970		59.4	100	13.0	140.5	0.002	<0.01	0.54	14.4	<1	4.1	32.2	1.24	0.10	19.45	0.424
TRD000971		49.2	90	8.9	153.0	<0.002	0.01	0.44	15.0	<1	4.2	30.6	1.21	<0.05	19.20	0.419
TRD000972		41.1	90	8.6	187.0	<0.002	0.01	0.48	15.8	<1	4.2	30.8	1.27	0.05	18.05	0.429
TRD000973		37.3	80	8.0	204	<0.002	0.01	0.39	15.0	<1	4.2	31.6	1.18	<0.05	19.45	0.416
TRD000974		37.1	90	9.1	198.0	<0.002	0.01	0.34	13.7	<1	4.1	34.9	1.22	<0.05	19.05	0.424
TRD000975		45.0	110	13.6	143.5	<0.002	0.01	0.43	11.5	<1	3.2	41.7	1.15	0.08	17.60	0.408
TRD000976		43.3	410	7.8	35.6	<0.002	0.04	0.18	40.9	<1	1.1	142.5	0.36	<0.05	3.85	0.395
TRD000977		38.0	90	9.2	184.5	<0.002	0.01	0.49	14.3	<1	4.3	44.0	1.20	0.07	19.00	0.413
TRD000978		47.9	110	9.8	194.5	<0.002	<0.01	0.54	14.7	<1	4.2	56.7	1.20	<0.05	20.5	0.430
TRD000979		37.9	80	11.2	179.5	<0.002	<0.01	0.58	14.2	<1	4.1	55.1	1.14	<0.05	17.95	0.410
TRD000980		31.0	70	10.8	176.5	<0.002	<0.01	0.50	13.8	<1	4.1	59.4	1.09	<0.05	18.40	0.399
TRD000981		34.8	90	10.2	180.0	<0.002	<0.01	0.51	14.1	<1	4.1	56.4	1.11	<0.05	18.60	0.411
TRD000982		25.6	90	10.8	196.0	<0.002	<0.01	0.72	14.2	<1	4.1	60.1	1.17	<0.05	19.35	0.410
TRD000983		35.2	100	10.7	168.5	<0.002	<0.01	0.46	13.9	<1	4.1	56.1	1.11	<0.05	19.55	0.395
TRD000984		37.4	100	14.0	167.5	<0.002	<0.01	0.45	13.6	<1	4.4	55.1	1.15	0.05	19.20	0.391
TRD000985		44.6	90	17.9	209	<0.002	<0.01	0.70	13.6	<1	6.5	50.1	1.49	0.06	19.30	0.347
TRD000986		38.6	100	17.2	175.0	<0.002	<0.01	0.48	13.7	1	4.8	53.1	1.21	0.20	19.10	0.395
TRD000987		36.6	80	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
TRD000988		45.8	100	12.0	175.0	<0.002	<0.01	0.40	13.6	<1	4.0	46.4	1.10	0.08	19.00	0.396
TRD000989		38.3	110	13.1	177.5	<0.002	0.01	0.44	14.1	<1	4.2	51.7	1.15	<0.05	19.95	0.414
TRD000990		33.6	120	13.0	181.0	<0.002	0.01	0.44	13.9	<1	4.1	52.9	1.13	<0.05	18.90	0.416
TRD000991		33.8	110	12.7	181.0	<0.002	<0.01	0.40	14.3	<1	4.1	51.4	1.17	<0.05	19.75	0.426
TRD000992		33.2	100	12.4	176.5	<0.002	<0.01	0.48	14.0	<1	4.3	50.7	1.18	<0.05	20.1	0.413
TRD000993		40.1	110	12.8	185.5	<0.002	<0.01	0.44	13.8	<1	4.2	48.9	1.13	0.06	19.15	0.405
TRD000994		37.2	80	12.2	188.0	<0.002	<0.01	0.68	14.3	<1	4.2	43.2	1.22	0.11	17.50	0.405
TRD000995		33.7	90	16.4	182.5	<0.002	<0.01	0.83	12.4	<1	3.4	31.6	1.11	0.06	16.15	0.319
TRD000996		34.7	100	12.9	189.0	<0.002	<0.01	0.60	13.8	<1	4.0	38.7	1.15	0.05	19.35	0.391
TRD000997		33.7	100	11.4	195.0	0.002	0.01	0.53	14.3	<1	4.1	42.9	1.19	<0.05	17.00	0.411
TRD000998		42.5	100	16.1	215	<0.002	0.02	0.47	14.9	<1	4.2	42.1	1.16	<0.05	19.85	0.411
TRD000999		43.7	120	13.4	214	<0.002	0.01	0.45	14.5	<1	4.1	47.5	1.13	0.07	19.65	0.413
TRD001000		40.0	110	23.0	216	<0.002	0.02	0.55	13.6	<1	3.8	41.1	1.11	0.05	18.55	0.399
TRD001001		39.2	100	27.2	212	<0.002	0.02	0.60	12.4	<1	3.5	30.2	0.97	0.05	15.90	0.360
TRD001002		44.0	390	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
TRD001003		44.8	90	21.0	227	<0.002	0.02	0.52	14.2	<1	4.0	38.1	1.11	0.07	18.20	0.397
TRD001004		46.3	90	15.0	213	<0.002	0.01	0.67	14.7	<1	4.5	46.1	1.23	0.07	20.2	0.417
TRD001005		49.1	110	15.0	208	<0.002	0.01	0.60	15.1	<1	4.2	53.4	1.22	<0.05	19.85	0.423



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Project: Panama Project

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**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD000966		1.05	2.7	93	2.9	35.2	84	129.0
TRD000967		1.00	2.6	93	3.0	45.2	115	125.0
TRD000968		0.78	2.4	91	3.4	48.9	134	116.5
TRD000969		0.85	5.8	99	3.3	77.3	122	126.5
TRD000970		0.76	4.6	91	4.2	48.4	95	120.5
TRD000971		0.82	3.2	94	3.9	34.3	91	115.5
TRD000972		1.06	3.3	91	3.7	29.9	71	124.0
TRD000973		0.99	2.9	90	3.7	25.3	65	122.0
TRD000974		0.86	3.2	86	3.3	29.8	77	124.5
TRD000975		0.72	4.9	73	3.2	25.8	69	130.0
TRD000976		0.20	1.0	211	0.5	23.6	82	109.0
TRD000977		0.80	3.0	89	4.2	32.5	108	120.0
TRD000978		0.87	2.7	93	5.7	44.8	126	119.0
TRD000979		0.76	2.6	90	6.0	36.8	85	117.0
TRD000980		0.72	2.6	88	5.7	25.1	64	113.5
TRD000981		0.85	2.8	88	5.1	28.4	80	116.0
TRD000982		0.77	2.7	87	6.7	28.5	66	114.0
TRD000983		0.72	2.6	85	4.5	29.9	98	110.5
TRD000984		0.72	2.7	82	6.3	32.2	84	114.0
TRD000985		0.99	2.7	78	5.3	28.1	91	121.0
TRD000986		0.76	2.9	88	4.1	28.6	89	120.0
TRD000987		0.81	3.0	86	3.5	23.5	92	119.5
TRD000988		0.79	2.7	84	3.9	22.9	86	110.5
TRD000989		0.86	3.7	86	3.0	25.6	96	111.5
TRD000990		0.75	3.6	84	2.8	24.1	89	118.5
TRD000991		0.77	3.7	88	3.3	22.7	80	122.0
TRD000992		0.78	3.6	86	3.7	21.0	83	116.5
TRD000993		0.83	3.4	85	6.0	21.5	90	115.5
TRD000994		0.81	3.1	90	6.6	24.0	78	118.5
TRD000995		0.82	2.6	74	8.2	18.3	56	100.0
TRD000996		0.83	2.8	84	7.8	22.9	61	110.5
TRD000997		0.83	2.6	88	8.5	23.4	74	120.0
TRD000998		0.97	2.7	91	8.8	26.4	77	118.5
TRD000999		0.97	2.7	91	9.7	28.0	80	116.5
TRD001000		1.08	3.3	85	9.9	26.5	86	114.0
TRD001001		1.13	2.4	77	8.5	25.8	101	103.0
TRD001002		0.20	0.9	213	0.5	23.4	80	110.0
TRD001003		1.05	2.5	90	18.4	23.3	84	112.0
TRD001004		0.92	3.1	91	5.3	26.1	89	124.0
TRD001005		0.91	3.8	91	6.0	25.6	65	117.5



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**CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001006		1.99		0.005		0.01	8.11	1.1	550	2.64	0.19	0.01	0.02	93.3	21.3	67
TRD001007		2.70		<0.005		0.01	8.46	0.8	540	3.01	0.18	0.01	<0.02	95.3	22.1	68
TRD001008		2.96		0.011		0.02	8.20	0.8	570	3.16	0.21	0.05	0.03	104.0	19.5	68
TRD001009		3.43		0.005		0.02	8.18	0.7	550	3.08	0.50	0.07	0.02	94.7	18.8	68
TRD001010		0.67		0.011		0.01	7.78	1.0	470	2.78	0.58	0.06	<0.02	93.1	17.7	64
TRD001011		0.98		0.007		0.02	8.13	1.0	470	2.85	0.30	0.06	0.02	101.0	18.4	69
TRD001012		1.41		0.014		0.01	8.31	1.8	470	2.46	0.16	0.03	<0.02	94.1	17.5	70
TRD001013		1.25		0.010		0.03	8.19	2.5	470	3.13	0.30	0.02	<0.02	97.7	17.0	68
TRD001014		1.02		0.012		0.01	8.80	1.3	560	2.90	0.15	0.01	<0.02	57.6	18.0	71
TRD001015		1.15		0.005		0.03	8.04	1.1	640	2.49	0.17	0.01	<0.02	102.5	15.4	69
TRD001016		1.66		0.010		0.02	8.34	0.9	550	2.91	0.15	0.02	<0.02	100.5	16.8	69
TRD001017		1.84		0.007		0.01	8.05	1.2	490	2.64	0.15	0.02	<0.02	97.3	16.8	67
TRD001018		0.64		0.006		0.01	7.45	1.7	430	3.40	0.10	0.01	0.02	92.1	14.3	67
TRD001019		1.74		0.010		0.01	8.05	1.8	460	2.96	0.19	0.01	<0.02	94.9	15.8	70
TRD001020		1.55		0.021		0.02	8.83	8.9	590	3.04	0.33	0.01	0.02	93.9	20.3	53
TRD001021		2.06		0.013		0.02	8.11	1.9	530	2.67	0.32	0.01	0.02	92.1	17.0	64
TRD001022		3.17		0.012		0.02	8.31	1.9	510	2.87	0.19	0.03	0.02	99.6	17.1	68
TRD001023		0.85		0.008		0.04	8.28	1.2	570	2.98	0.28	0.02	0.05	95.2	17.6	65
TRD001024		1.12		0.005		0.03	8.24	0.6	480	2.96	0.75	0.03	0.02	89.6	17.4	67
TRD001025		1.15		<0.005		0.02	8.14	0.6	470	3.07	0.58	0.05	0.02	95.2	18.1	67
TRD001026		1.09		<0.005		0.03	7.97	0.9	450	3.05	0.61	0.05	0.02	106.5	16.8	66
TRD001027		1.22		0.009		0.04	8.16	0.8	470	2.96	0.59	0.04	0.02	100.0	16.6	67
TRD001028		1.15		0.012		0.04	8.20	0.8	470	3.10	0.66	0.04	0.02	90.9	16.4	65
TRD001029		1.18		0.019		0.06	8.01	1.4	210	0.78	0.05	6.41	0.09	30.3	38.1	6
TRD001030		0.06		>10.0	26.2	1.43	6.13	3650	530	2.27	0.64	0.80	0.07	68.3	12.0	99
TRD001031		0.06		0.006		0.02	0.10	0.8	<10	0.06	0.01	0.01	<0.02	2.27	0.6	5
TRD001032		0.06		3.09		0.25	7.51	608	680	2.32	0.38	0.78	0.05	84.0	13.2	127
TRD001033		0.06		1.060		0.28	6.94	50.0	130	0.34	0.04	6.88	0.50	12.10	40.7	113
TRD001034		1.91		0.011		0.02	8.23	0.9	520	2.64	0.37	0.04	<0.02	90.3	16.8	59
TRD001035		1.87		0.008		0.02	7.90	1.8	640	2.40	0.46	0.06	0.02	79.0	17.6	42
TRD001036		3.61		0.010		0.03	7.86	1.0	500	2.58	0.39	0.07	<0.02	93.8	15.3	58
TRD001037		3.34		0.472		0.01	7.93	2.4	480	2.87	0.53	0.08	<0.02	103.0	15.8	64
TRD001038		2.81		1.055		0.05	7.02	6.2	460	2.71	1.82	0.05	<0.02	83.5	13.8	64
TRD001039		4.30		0.095		0.02	7.02	2.1	420	2.56	0.53	0.07	<0.02	84.8	13.6	64
TRD001040		3.24	98.9	0.508		0.01	7.98	1.6	500	3.10	0.28	0.08	0.02	95.9	15.7	65



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Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001006		11.85	3.8	4.12	21.9	0.14	3.3	0.072	3.14	46.9	32.3	1.41	917	0.47	0.15	15.7
TRD001007		16.20	7.9	4.21	22.6	0.16	3.5	0.077	3.28	46.7	34.6	1.61	1205	0.53	0.19	16.2
TRD001008		12.60	20.8	4.08	22.0	0.14	3.3	0.080	3.17	52.2	29.6	1.34	946	0.50	0.25	16.3
TRD001009		12.95	29.4	4.17	21.9	0.15	3.3	0.077	3.20	47.3	31.7	1.46	1015	0.48	0.32	15.8
TRD001010		10.85	9.3	3.97	20.8	0.14	3.3	0.071	2.90	46.9	31.1	1.34	1235	0.46	0.32	15.7
TRD001011		11.50	22.1	4.24	21.6	0.15	3.2	0.075	3.06	51.7	29.3	1.42	1015	0.42	0.33	15.6
TRD001012		10.55	10.8	4.20	21.4	0.13	3.3	0.081	3.19	47.7	28.5	1.41	896	0.40	0.31	15.7
TRD001013		9.83	7.4	4.51	22.5	0.15	3.3	0.059	3.03	49.1	27.4	1.43	754	0.57	0.29	15.7
TRD001014		9.83	5.9	4.34	23.2	0.20	3.1	0.088	3.30	26.4	27.8	1.41	799	0.44	0.25	15.8
TRD001015		9.92	34.5	3.78	21.5	0.16	3.4	0.063	2.85	52.0	25.5	1.34	957	0.42	0.29	15.9
TRD001016		10.75	20.2	4.32	22.5	0.18	3.3	0.087	3.16	51.1	27.9	1.40	874	0.46	0.28	15.7
TRD001017		10.05	15.4	3.99	21.6	0.18	3.2	0.075	2.89	49.7	27.5	1.39	881	0.59	0.27	15.4
TRD001018		7.28	6.1	4.34	20.1	0.15	3.0	0.065	2.49	48.1	23.2	1.32	699	1.06	0.20	14.3
TRD001019		7.67	7.5	4.08	21.8	0.14	3.1	0.079	2.75	49.0	26.2	1.46	801	1.66	0.21	15.2
TRD001020		8.89	8.9	2.88	25.0	0.16	3.6	0.095	3.31	45.3	24.8	1.30	604	2.20	0.20	16.4
TRD001021		8.19	14.4	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
TRD001022		9.77	13.5	4.11	22.5	0.15	3.2	0.078	3.06	50.9	28.8	1.38	872	0.96	0.27	15.8
TRD001023		10.55	58.0	3.95	23.1	0.15	3.3	0.072	3.04	47.0	29.6	1.31	937	0.62	0.24	16.4
TRD001024		12.00	23.2	4.35	21.9	0.14	3.3	0.085	3.09	43.5	29.6	1.36	872	0.45	0.35	16.2
TRD001025		12.15	24.8	4.26	22.4	0.18	3.1	0.086	3.12	46.2	29.6	1.39	797	0.37	0.40	15.4
TRD001026		11.15	28.8	4.07	21.3	0.14	3.2	0.063	2.95	54.1	28.8	1.39	903	0.46	0.42	16.2
TRD001027		9.05	51.6	4.05	21.9	0.18	3.1	0.069	3.00	50.1	29.9	1.50	874	0.51	0.38	15.3
TRD001028		7.93	50.9	3.80	21.3	0.14	3.0	0.088	3.02	44.9	28.8	1.57	857	0.53	0.34	14.7
TRD001029		1.71	125.0	7.30	17.55	0.17	2.8	0.062	0.78	15.1	11.2	2.48	1220	0.52	1.45	5.5
TRD001030		8.73	54.1	3.28	16.60	0.13	2.9	0.059	2.43	35.3	36.7	1.20	334	1.34	0.47	11.0
TRD001031		0.09	6.8	0.35	0.24	<0.05	0.3	<0.005	0.01	1.0	13.6	<0.01	31	0.66	<0.01	0.9
TRD001032		9.39	30.9	3.88	20.3	0.13	3.7	0.060	2.71	43.5	41.8	1.50	335	0.73	0.70	14.5
TRD001033		0.75	158.0	7.74	14.70	0.15	1.6	0.078	0.35	4.8	10.2	3.71	1285	0.86	1.67	3.1
TRD001034		8.61	20.9	3.88	19.50	0.14	3.1	0.060	2.96	42.5	26.3	1.56	805	0.38	0.33	14.0
TRD001035		8.84	15.6	3.10	17.55	0.11	3.5	0.062	2.70	35.4	24.3	1.40	937	0.38	0.49	14.4
TRD001036		8.28	19.2	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
TRD001037		9.12	9.2	4.05	21.5	0.16	3.1	0.069	2.91	52.0	29.3	1.39	796	0.76	0.56	15.3
TRD001038		7.99	9.1	4.00	19.95	0.13	2.7	0.058	2.48	43.2	27.3	1.21	606	2.07	0.48	13.1
TRD001039		8.31	7.1	4.03	19.30	0.13	2.7	0.069	2.56	42.6	27.2	1.21	739	1.44	0.52	13.4
TRD001040		9.91	22.4	4.21	22.0	0.16	3.0	0.075	2.99	48.2	29.5	1.38	822	0.63	0.52	15.2



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Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22084838**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001006		47.2	100	13.6	212	<0.002	0.01	0.47	14.9	<1	4.3	41.9	1.18	0.07	20.1	0.422
TRD001007		49.3	110	18.2	237	<0.002	0.01	0.46	15.4	<1	4.6	37.6	1.28	<0.05	21.0	0.433
TRD001008		44.7	270	14.6	215	<0.002	0.02	0.46	15.1	<1	4.2	46.4	1.21	<0.05	20.6	0.420
TRD001009		43.9	380	16.0	223	<0.002	0.02	0.43	14.9	<1	4.2	42.6	1.19	<0.05	20.4	0.421
TRD001010		43.4	250	14.6	191.0	<0.002	0.01	0.50	14.1	<1	4.1	41.1	1.17	0.09	20.2	0.419
TRD001011		45.5	290	14.5	206	<0.002	0.01	0.44	14.8	<1	4.2	38.0	1.17	<0.05	20.1	0.428
TRD001012		42.6	160	13.4	194.0	<0.002	0.01	0.46	14.3	<1	4.3	37.5	1.26	<0.05	17.65	0.448
TRD001013		43.3	330	16.8	191.0	<0.002	0.01	0.47	14.5	<1	4.2	40.2	1.23	0.05	18.35	0.434
TRD001014		43.8	130	11.4	146.5	<0.002	0.01	0.45	14.5	<1	4.4	48.1	1.27	0.05	11.65	0.439
TRD001015		39.6	130	12.1	177.0	<0.002	0.01	0.49	14.1	<1	4.3	59.4	1.27	<0.05	18.05	0.432
TRD001016		42.9	210	11.8	202	<0.002	0.01	0.51	14.7	<1	4.4	47.7	1.22	<0.05	18.50	0.438
TRD001017		42.4	130	11.2	178.5	<0.002	0.01	0.47	14.3	<1	4.2	48.4	1.19	<0.05	17.65	0.424
TRD001018		38.8	380	9.1	141.0	<0.002	0.01	0.62	13.4	<1	3.9	43.5	1.13	<0.05	15.70	0.390
TRD001019		40.1	200	11.0	152.0	<0.002	<0.01	0.78	14.3	<1	4.2	49.7	1.19	<0.05	17.45	0.405
TRD001020		51.8	130	20.3	187.5	0.002	0.01	1.20	11.9	<1	7.7	64.5	1.44	<0.05	19.10	0.349
TRD001021		37.1	140	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
TRD001022		42.1	200	14.5	190.0	<0.002	0.01	0.73	14.6	1	4.4	46.8	1.21	<0.05	17.65	0.424
TRD001023		39.7	110	15.4	201	<0.002	0.02	0.66	14.7	<1	6.1	45.9	1.43	0.09	17.90	0.409
TRD001024		41.7	170	17.0	211	<0.002	0.01	0.46	14.6	<1	4.6	42.7	1.30	<0.05	18.65	0.424
TRD001025		41.5	270	16.1	206	<0.002	0.01	0.42	15.0	<1	4.4	35.8	1.25	<0.05	18.00	0.414
TRD001026		40.1	250	15.8	197.5	<0.002	0.01	0.48	14.5	<1	4.4	36.8	1.25	0.09	18.00	0.409
TRD001027		37.7	220	12.8	187.0	<0.002	0.01	0.38	14.8	<1	4.3	39.0	1.20	0.05	18.25	0.411
TRD001028		36.4	190	12.0	173.0	<0.002	0.01	0.43	14.7	<1	4.2	39.4	1.16	0.07	17.20	0.407
TRD001029		43.6	400	7.7	36.8	<0.002	0.03	0.24	43.1	<1	1.1	144.5	0.37	<0.05	3.54	0.409
TRD001030		45.4	470	32.2	152.5	<0.002	0.74	3390	11.8	1	3.4	97.4	0.84	<0.05	10.90	0.332
TRD001031		3.8	10	1.7	0.4	<0.002	<0.01	0.18	0.2	<1	0.5	0.8	0.06	<0.05	0.63	0.030
TRD001032		61.5	570	20.0	164.5	<0.002	0.14	588	15.2	<1	3.9	99.9	1.09	<0.05	13.65	0.466
TRD001033		82.9	400	21.0	10.8	0.002	0.31	1.04	40.6	1	0.8	180.5	0.20	0.09	0.78	0.573
TRD001034		33.9	180	12.0	173.5	<0.002	0.01	0.42	13.1	<1	4.4	39.5	1.15	<0.05	19.10	0.371
TRD001035		32.0	250	16.3	163.0	<0.002	0.01	0.60	10.9	<1	5.2	48.7	1.28	<0.05	21.3	0.290
TRD001036		33.8	340	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
TRD001037		37.2	370	14.0	191.0	<0.002	0.01	0.56	14.0	<1	4.2	36.0	1.20	0.12	17.10	0.393
TRD001038		36.7	340	17.1	154.5	<0.002	0.01	0.70	12.8	<1	3.5	27.6	1.03	0.84	14.05	0.351
TRD001039		35.6	350	15.5	159.5	<0.002	0.01	0.56	12.7	<1	3.6	30.4	1.06	0.21	14.60	0.361
TRD001040		38.7	340	13.9	186.5	<0.002	0.01	0.51	14.6	<1	4.3	37.3	1.21	0.08	17.45	0.399



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**CERTIFICATE OF ANALYSIS BU22084838**

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Sample Description	Method Analyte Units LOD	ME-MS61						
		TI	U	V	W	Y	Zn	Zr
		ppm						
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001006		0.96	3.1	89	5.3	25.3	60	120.5
TRD001007		1.14	2.9	94	4.8	28.2	78	124.0
TRD001008		0.96	2.9	91	4.2	29.9	82	121.0
TRD001009		0.99	2.9	91	3.3	27.8	92	117.0
TRD001010		0.89	3.1	85	4.5	28.0	65	122.0
TRD001011		0.92	2.8	90	3.5	28.6	84	119.5
TRD001012		0.90	2.6	94	3.6	25.4	76	123.0
TRD001013		0.80	2.9	92	4.0	25.7	52	123.0
TRD001014		0.94	2.7	94	3.6	17.9	79	116.0
TRD001015		0.79	3.4	91	3.0	26.4	88	121.5
TRD001016		0.86	2.9	94	3.4	26.0	82	120.0
TRD001017		0.84	2.9	91	3.1	25.4	82	117.0
TRD001018		0.63	2.6	85	6.3	20.2	56	108.5
TRD001019		0.69	2.7	90	5.0	21.3	69	113.0
TRD001020		0.81	5.0	68	6.3	25.6	57	126.0
TRD001021		0.72	3.5	82	4.7	24.3	70	116.5
TRD001022		0.85	2.9	92	4.1	26.3	75	120.5
TRD001023		0.91	4.0	90	6.6	23.3	99	122.0
TRD001024		0.95	2.9	90	4.9	24.6	105	123.5
TRD001025		0.94	2.5	92	3.8	24.3	97	115.5
TRD001026		0.87	2.6	89	3.8	32.8	94	119.0
TRD001027		0.80	3.1	92	4.7	24.7	90	115.0
TRD001028		0.80	3.3	93	5.0	20.5	81	109.0
TRD001029		0.20	1.0	213	0.4	24.6	86	111.0
TRD001030		0.77	2.3	78	6.8	12.4	87	108.5
TRD001031		<0.02	0.1	2	0.2	0.6	4	8.4
TRD001032		0.81	2.6	103	3.3	18.1	98	137.5
TRD001033		0.16	0.2	251	24.4	19.4	132	50.7
TRD001034		0.79	3.2	81	4.7	25.6	72	105.5
TRD001035		0.75	4.6	56	4.5	26.3	65	112.0
TRD001036		0.74	2.7	81	4.4	21.8	83	103.5
TRD001037		0.80	3.1	87	5.3	24.5	59	113.0
TRD001038		0.65	2.3	80	10.8	21.3	39	98.4
TRD001039		0.70	2.3	78	5.9	23.3	63	101.0
TRD001040		0.81	2.5	89	4.5	22.8	84	110.5



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Project: Panama Project

<b>CERTIFICATE OF ANALYSIS BU22084838</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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 Finalized Date: 27-JUN-2022  
 This copy reported on 8-JUL-2022  
 Account: TINONEAUS

**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
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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
Au-GR21	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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**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001041		2.37	98.9	0.016		0.02	8.27	3.1	830	2.78	0.21	0.10	0.02	82.9	18.1	66
TRD001042		2.97		0.025		0.02	8.24	0.9	630	2.87	0.27	0.10	<0.02	81.7	15.4	72
TRD001043		4.01		0.017		0.03	8.08	1.0	530	2.79	0.44	0.10	0.02	84.5	15.2	67
TRD001044		3.41		0.006		0.02	7.94	1.7	660	2.73	0.17	0.09	0.02	89.3	16.6	49
TRD001045		0.22		0.012		0.03	2.42	3.8	240	0.76	0.12	0.03	<0.02	31.3	1.6	46
TRD001046		0.62		0.029		0.04	4.55	8.8	340	1.22	0.16	0.01	<0.02	64.1	1.4	47
TRD001047		1.04		0.027		0.03	4.25	6.6	300	1.18	0.11	0.01	<0.02	57.3	1.3	44
TRD001048		1.56		0.061		0.03	4.33	10.5	290	1.32	0.54	0.01	<0.02	57.6	1.6	49
TRD001049		1.69		0.085		0.04	4.04	13.7	240	1.29	0.53	0.01	<0.02	52.1	1.6	54
TRD001050		2.36		0.045		0.03	6.74	7.3	590	2.19	0.16	0.01	<0.02	59.8	1.5	64
TRD001051		1.07		0.021		0.05	7.61	10.4	730	2.32	0.17	0.01	0.02	63.5	2.0	66
TRD001052		1.94		0.111		0.04	5.34	17.5	470	1.50	2.15	0.01	<0.02	51.8	1.7	57
TRD001053		1.86		0.386		0.05	3.62	41.8	230	1.22	2.37	0.01	<0.02	51.2	1.4	52
TRD001054		1.96		0.584		0.06	3.14	26.8	170	1.06	0.49	0.01	<0.02	45.7	1.4	49
TRD001055		1.95		0.415		0.06	4.23	22.5	210	1.47	0.21	0.01	0.02	48.6	1.9	58
TRD001056		1.47		1.600		0.08	7.87	13.2	630	2.49	0.45	0.01	0.02	64.2	1.7	76
TRD001057		2.10		0.259		0.13	8.67	3.4	750	2.76	0.32	<0.01	<0.02	58.4	1.5	80
TRD001058		1.28		0.031		0.08	8.24	3.6	770	2.65	0.23	0.01	0.03	51.2	1.7	74
TRD001059		1.69		0.019		0.07	6.34	2.1	540	2.05	0.16	0.01	<0.02	52.4	1.4	58
TRD001060		1.15		0.019		0.09	6.68	2.1	620	2.31	0.22	0.01	<0.02	62.6	1.7	60
TRD001061		1.19		0.014		0.10	7.01	2.2	650	2.42	0.25	0.01	<0.02	64.5	1.7	61
TRD001062		2.12		0.010		0.05	8.42	1.2	210	0.73	0.04	6.88	0.08	26.3	40.4	4
TRD001063		1.12		0.015		0.08	6.39	10.9	570	2.01	0.14	0.01	<0.02	69.0	1.6	56
TRD001064		1.21		0.047		0.07	4.40	29.2	330	1.58	0.16	0.01	<0.02	57.5	1.4	50
TRD001065		2.22		0.077		0.06	3.20	28.4	210	1.48	0.11	0.02	<0.02	43.2	1.6	48
TRD001066		1.91		0.032		0.05	4.69	17.3	350	1.59	0.11	0.01	<0.02	59.7	1.4	52
TRD001067		1.29		0.019		0.03	4.60	6.6	340	1.35	0.05	0.01	<0.02	59.6	1.0	45
TRD001068		1.40		0.013		0.03	6.66	11.1	590	2.22	0.19	0.01	<0.02	70.4	1.3	57
TRD001069		1.76		0.023		0.04	5.21	9.0	420	1.81	0.15	0.01	<0.02	56.6	1.2	52
TRD001070		2.45		0.024		0.03	4.04	7.5	290	1.30	0.08	0.01	<0.02	51.8	1.0	42
TRD001071		1.79		0.010		0.03	4.47	6.8	390	1.38	0.13	0.01	<0.02	60.3	1.3	45
TRD001072		1.94		0.009		0.07	5.34	11.0	550	1.70	0.26	0.01	<0.02	70.8	2.3	52
TRD001073		1.14		0.019		0.05	4.57	9.5	350	1.63	0.14	0.01	0.02	58.9	1.6	44
TRD001074		1.36		0.015		0.05	4.51	9.6	290	1.64	0.06	0.01	<0.02	57.9	1.4	44
TRD001075		1.82		0.016		0.05	5.86	17.1	520	1.83	0.13	0.01	0.02	59.3	2.5	51
TRD001076		3.01		0.232		0.04	6.10	11.6	500	2.03	0.29	0.01	0.02	63.7	2.6	52
TRD001077		1.29		0.009		0.02	7.83	4.9	720	2.27	0.64	<0.01	0.02	74.5	3.3	65
TRD001078		3.54		0.044		0.04	5.51	10.0	430	1.84	0.50	0.01	0.02	70.6	2.3	55
TRD001079		0.65		0.049		0.04	3.59	11.4	210	1.30	0.14	0.01	<0.02	52.9	1.5	42
TRD001080		2.74	97.1	0.129		0.05	5.79	12.8	420	1.82	0.18	0.01	<0.02	89.2	4.7	50



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**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001041		8.33	20.3	3.84	20.9	0.32	3.1	0.067	2.70	40.3	28.7	1.47	1205	1.61	0.66	15.2
TRD001042		9.37	17.3	4.28	22.0	0.39	3.0	0.060	2.98	38.4	30.2	1.45	1050	0.78	0.57	14.9
TRD001043		7.18	47.2	3.92	21.0	0.39	2.8	0.069	2.91	41.2	28.6	1.51	983	0.87	0.58	14.4
TRD001044		7.83	21.7	3.56	20.3	0.37	3.4	0.066	2.92	42.1	29.3	1.56	995	0.51	0.47	14.3
TRD001045		2.67	8.1	3.10	7.49	0.06	3.7	0.023	0.81	16.0	4.1	0.12	346	1.02	0.04	11.4
TRD001046		2.94	8.8	1.27	9.78	0.07	4.0	0.035	1.08	32.8	7.5	0.17	73	0.67	0.04	10.0
TRD001047		2.85	7.4	1.02	9.18	0.07	4.1	0.033	0.99	29.5	5.7	0.15	64	0.77	0.04	9.9
TRD001048		3.05	12.2	1.61	9.87	0.07	4.1	0.025	1.05	29.4	5.4	0.13	64	0.74	0.03	9.7
TRD001049		3.08	13.0	1.96	9.49	0.06	3.5	0.034	0.97	26.3	5.3	0.12	59	0.65	0.03	9.1
TRD001050		3.24	13.3	1.74	16.90	0.09	3.7	0.054	2.27	29.8	9.0	0.21	54	0.47	0.08	13.8
TRD001051		3.19	13.1	1.34	18.60	0.08	3.6	0.084	2.62	32.7	10.2	0.22	48	0.44	0.10	14.8
TRD001052		2.50	14.5	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
TRD001053		2.47	14.4	2.21	8.67	0.06	3.5	0.032	0.92	26.1	5.5	0.11	58	0.71	0.03	8.2
TRD001054		2.45	12.2	2.30	7.40	0.06	3.1	0.026	0.82	23.6	4.7	0.09	62	0.83	0.03	7.2
TRD001055		3.48	22.5	2.90	10.20	0.06	4.0	0.035	1.01	24.8	5.7	0.12	62	0.80	0.04	9.6
TRD001056		4.04	19.0	2.59	18.90	0.08	4.0	0.061	2.47	32.5	10.3	0.22	59	0.47	0.09	15.7
TRD001057		3.70	18.9	3.09	21.4	0.08	3.8	0.070	2.81	29.3	10.8	0.22	34	0.35	0.10	16.6
TRD001058		3.49	26.4	2.14	19.70	0.08	3.5	0.072	2.70	27.3	10.0	0.22	41	0.40	0.10	16.4
TRD001059		3.56	29.4	2.15	15.00	0.07	3.3	0.061	2.00	27.3	7.7	0.20	42	0.36	0.07	13.0
TRD001060		2.95	34.0	2.31	16.30	0.08	3.5	0.055	2.23	31.8	9.1	0.19	31	0.29	0.08	13.8
TRD001061		2.79	32.6	2.10	16.70	0.09	3.6	0.057	2.36	33.0	9.0	0.19	28	0.35	0.09	14.4
TRD001062		1.38	145.0	7.30	16.15	0.11	2.7	0.058	0.75	13.0	11.2	2.48	1285	0.47	1.51	5.1
TRD001063		3.17	21.3	1.80	14.80	0.10	3.3	0.048	2.08	35.5	8.7	0.19	40	0.39	0.07	13.0
TRD001064		3.08	14.5	2.44	10.05	0.07	2.8	0.032	1.30	30.6	6.4	0.15	56	0.67	0.04	8.8
TRD001065		2.39	17.9	3.14	7.37	0.06	2.0	0.021	0.89	22.3	4.5	0.10	70	0.93	0.03	6.2
TRD001066		3.15	16.2	2.16	10.90	0.07	2.9	0.039	1.32	31.3	6.2	0.15	76	0.78	0.04	9.8
TRD001067		3.22	11.8	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
TRD001068		3.31	23.2	1.34	15.50	0.10	3.3	0.050	2.17	35.8	9.5	0.20	34	0.48	0.08	12.9
TRD001069		3.00	20.7	1.34	12.95	0.08	2.8	0.041	1.62	28.9	7.7	0.16	57	0.72	0.06	10.6
TRD001070		2.77	13.4	1.04	9.42	0.07	2.7	0.024	1.13	26.3	5.5	0.13	59	2.31	0.04	8.6
TRD001071		2.82	13.0	1.12	10.25	0.08	3.1	0.036	1.30	30.4	6.0	0.15	89	0.70	0.04	9.8
TRD001072		3.20	19.5	1.47	14.05	0.09	3.4	0.048	1.80	33.3	7.5	0.19	91	0.70	0.06	11.5
TRD001073		3.12	14.6	1.27	10.25	0.07	2.7	0.033	1.26	29.1	6.6	0.15	78	0.75	0.04	9.7
TRD001074		3.41	11.4	1.08	10.05	0.06	3.3	0.031	1.14	29.0	6.0	0.14	74	0.70	0.04	10.2
TRD001075		3.19	14.4	1.53	13.35	0.07	3.4	0.042	1.77	31.7	7.8	0.18	74	1.69	0.06	12.2
TRD001076		3.07	16.5	1.84	13.90	0.08	3.5	0.043	1.79	31.5	8.5	0.17	77	0.94	0.06	12.4
TRD001077		3.79	23.1	2.29	20.7	0.16	3.9	0.088	2.89	37.3	12.2	0.26	84	2.95	0.09	15.3
TRD001078		3.65	16.4	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
TRD001079		2.97	12.2	1.58	9.10	0.05	2.4	0.023	1.11	24.4	5.4	0.11	77	1.01	0.03	7.7
TRD001080		3.24	16.9	1.93	14.45	0.06	3.0	0.039	1.75	28.0	8.1	0.16	126	0.71	0.06	11.1



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001041		38.3	430	17.2	166.5	<0.002	0.01	0.45	14.0	<1	3.9	92.2	1.13	0.05	18.25	0.424
TRD001042		38.2	480	12.7	171.0	<0.002	0.01	0.39	14.5	<1	4.0	62.1	1.12	0.05	17.40	0.423
TRD001043		35.3	440	11.0	160.5	<0.002	0.02	0.40	14.0	<1	3.9	55.8	1.10	0.09	16.85	0.414
TRD001044		32.1	370	11.0	165.5	<0.002	0.01	0.46	12.6	<1	4.7	74.2	1.17	<0.05	21.4	0.339
TRD001045		7.2	90	6.8	49.0	<0.002	0.01	0.68	4.8	<1	2.3	16.8	0.83	<0.05	6.49	0.334
TRD001046		8.0	140	10.8	70.3	<0.002	0.01	0.90	6.2	1	2.1	21.9	0.74	<0.05	13.55	0.284
TRD001047		8.8	120	10.5	64.7	<0.002	0.01	0.67	5.9	<1	2.1	21.7	0.77	<0.05	13.15	0.279
TRD001048		10.0	110	11.8	73.9	<0.002	0.01	0.64	6.3	<1	2.3	21.5	0.73	0.10	17.00	0.280
TRD001049		11.0	120	12.9	72.1	<0.002	0.01	0.72	5.8	<1	2.3	29.0	0.69	0.10	17.85	0.264
TRD001050		12.2	90	12.5	113.5	<0.002	0.01	0.59	11.5	<1	3.5	31.1	1.02	<0.05	21.3	0.366
TRD001051		13.4	90	16.2	111.5	<0.002	0.01	0.69	12.6	<1	4.0	30.7	1.12	<0.05	20.5	0.398
TRD001052		11.9	100	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
TRD001053		10.4	80	10.0	61.6	<0.002	0.01	1.02	5.8	1	2.2	14.6	0.64	0.35	15.50	0.235
TRD001054		9.6	70	7.9	61.7	<0.002	0.01	0.77	4.9	<1	1.9	13.6	0.52	0.06	14.20	0.205
TRD001055		10.9	110	13.9	75.5	<0.002	0.01	0.77	6.2	<1	2.5	26.6	0.76	<0.05	20.3	0.263
TRD001056		14.8	130	16.9	122.0	<0.002	0.01	0.69	12.5	1	4.0	34.8	1.20	0.11	24.8	0.426
TRD001057		17.3	150	15.8	127.5	<0.002	0.02	0.59	15.7	<1	4.2	44.7	1.26	0.10	23.8	0.444
TRD001058		18.3	140	16.8	124.0	<0.002	0.01	0.53	14.6	<1	4.0	47.3	1.17	<0.05	20.6	0.433
TRD001059		16.1	120	15.4	105.0	<0.002	0.01	0.48	10.6	<1	3.1	31.8	0.97	<0.05	15.80	0.356
TRD001060		18.2	130	17.2	100.0	<0.002	0.01	0.68	11.8	<1	3.3	34.1	1.02	<0.05	18.00	0.374
TRD001061		20.0	120	17.4	98.0	<0.002	0.01	1.06	12.0	<1	3.5	33.6	1.08	<0.05	18.40	0.387
TRD001062		40.7	410	5.4	29.2	0.002	0.04	0.13	40.0	<1	1.0	153.5	0.32	<0.05	3.34	0.400
TRD001063		16.4	150	19.4	101.5	<0.002	0.01	0.84	10.5	<1	3.2	28.0	0.94	<0.05	17.35	0.357
TRD001064		11.4	260	20.7	81.1	<0.002	0.02	0.81	7.7	<1	2.3	17.9	0.65	<0.05	12.75	0.258
TRD001065		8.9	320	14.8	58.0	<0.002	0.02	0.69	6.4	<1	1.6	11.4	0.46	<0.05	11.00	0.184
TRD001066		11.8	190	16.7	79.2	<0.002	0.01	0.71	7.7	<1	2.3	19.9	0.75	<0.05	13.00	0.280
TRD001067		10.0	100	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
TRD001068		15.2	100	13.4	101.5	<0.002	0.01	0.84	10.9	<1	3.2	25.3	0.95	<0.05	16.30	0.361
TRD001069		10.5	90	13.8	84.0	<0.002	0.01	0.61	8.8	<1	2.5	21.9	0.79	<0.05	13.05	0.293
TRD001070		15.0	100	11.1	67.8	<0.002	0.01	0.58	6.2	<1	2.0	20.4	0.63	<0.05	10.65	0.252
TRD001071		9.8	110	14.0	68.9	<0.002	0.01	0.65	7.1	<1	2.2	22.0	0.74	<0.05	12.25	0.294
TRD001072		11.9	130	18.5	85.0	<0.002	0.01	1.08	9.1	<1	3.2	25.1	0.91	<0.05	14.75	0.337
TRD001073		10.6	120	13.4	71.6	<0.002	0.01	0.75	6.8	<1	2.3	22.2	0.77	<0.05	11.90	0.282
TRD001074		10.2	110	13.6	71.6	<0.002	0.01	0.66	6.6	<1	2.0	22.1	0.76	<0.05	12.95	0.299
TRD001075		13.5	130	15.9	82.2	<0.002	0.01	0.69	9.3	<1	2.9	32.4	0.91	<0.05	15.70	0.351
TRD001076		14.4	130	15.8	84.8	<0.002	0.02	0.68	9.7	<1	2.9	34.8	0.92	0.05	15.10	0.353
TRD001077		12.2	110	14.8	120.5	<0.002	0.01	1.05	14.5	1	4.1	35.1	1.26	0.06	20.2	0.439
TRD001078		12.0	120	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
TRD001079		11.0	150	8.9	77.7	<0.002	0.01	0.74	5.9	<1	1.9	24.1	0.58	<0.05	9.73	0.231
TRD001080		15.2	140	13.8	93.5	<0.002	0.01	0.68	9.5	<1	3.1	32.9	0.89	<0.05	13.50	0.331



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001041		0.70	3.2	91	3.4	21.8	77	120.0
TRD001042		0.77	2.5	93	3.5	20.4	87	115.0
TRD001043		0.68	2.6	94	3.5	21.2	87	109.5
TRD001044		0.72	3.2	70	3.2	25.0	86	126.0
TRD001045		0.19	1.7	41	4.6	16.0	14	136.0
TRD001046		0.30	1.9	47	4.6	17.6	13	151.5
TRD001047		0.26	1.9	43	4.2	15.6	18	146.5
TRD001048		0.32	1.9	45	11.1	17.4	35	145.0
TRD001049		0.32	1.8	43	9.7	12.6	40	132.5
TRD001050		0.41	2.2	76	9.3	13.6	28	135.0
TRD001051		0.39	2.3	84	6.9	14.8	42	134.0
TRD001052		0.28	1.9	57	9.4	17.0	54	130.0
TRD001053		0.27	2.0	39	25.7	11.6	54	121.5
TRD001054		0.27	1.7	35	20.0	9.9	56	114.0
TRD001055		0.34	2.5	45	13.0	14.0	56	146.5
TRD001056		0.47	3.0	87	10.0	14.8	40	149.0
TRD001057		0.46	2.7	94	10.6	15.8	29	137.0
TRD001058		0.45	2.7	94	6.1	17.2	34	141.5
TRD001059		0.42	2.3	74	6.4	15.4	31	122.5
TRD001060		0.36	2.4	79	6.2	16.0	41	128.5
TRD001061		0.34	2.4	80	5.8	15.8	39	138.5
TRD001062		0.19	0.9	230	0.4	22.8	87	109.5
TRD001063		0.39	2.3	71	4.1	16.3	26	127.0
TRD001064		0.33	2.0	50	5.3	12.3	21	102.0
TRD001065		0.26	1.8	46	6.6	12.0	30	77.1
TRD001066		0.35	2.0	52	6.4	13.2	23	108.5
TRD001067		0.34	2.0	47	5.6	12.6	14	123.0
TRD001068		0.40	2.3	71	6.1	14.4	22	124.0
TRD001069		0.33	2.2	59	6.8	11.4	27	103.0
TRD001070		0.28	1.7	43	6.3	11.1	19	96.4
TRD001071		0.30	2.0	47	4.5	18.0	34	139.5
TRD001072		0.36	2.2	59	3.7	13.7	75	128.0
TRD001073		0.30	1.9	47	3.6	16.6	51	99.1
TRD001074		0.32	2.0	46	3.5	15.2	36	121.5
TRD001075		0.34	2.6	64	3.3	15.5	68	127.5
TRD001076		0.34	2.3	67	3.3	14.3	72	129.0
TRD001077		0.48	3.4	119	5.1	15.7	68	133.5
TRD001078		0.42	2.3	74	8.0	13.4	50	98.7
TRD001079		0.30	1.6	41	11.8	13.6	27	88.9
TRD001080		0.39	2.4	63	7.7	15.4	54	110.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001081		1.83		0.013		0.07	7.81	5.8	580	2.51	0.21	0.01	0.03	192.0	20.5	62
TRD001082		2.40		0.006		0.02	8.23	2.6	640	2.73	0.22	<0.01	<0.02	77.0	6.6	61
TRD001083		1.52		0.027		0.02	7.43	3.7	600	2.46	0.19	<0.01	<0.02	65.0	4.8	61
TRD001084		1.48		3.94		0.04	7.04	9.0	540	2.40	0.15	<0.01	<0.02	67.0	3.3	67
TRD001085		1.52		0.015		0.04	7.00	10.6	540	2.20	0.19	0.01	<0.02	52.7	3.0	61
TRD001086		2.50		0.016		0.06	5.74	10.0	410	1.49	0.22	0.01	<0.02	55.9	2.0	47
TRD001087		2.14		<0.005		0.04	5.14	11.7	370	1.51	0.28	0.01	<0.02	60.3	1.6	44
TRD001088		1.74		0.683		0.03	4.44	13.0	310	1.39	0.30	0.01	<0.02	62.6	1.4	38
TRD001089		2.46		0.009		0.06	8.49	1.1	220	0.77	0.06	6.92	0.08	28.6	40.2	3
TRD001090		1.38		<0.005		0.04	4.71	10.1	330	1.48	0.19	0.01	<0.02	70.4	3.5	40
TRD001091		1.99		0.008		0.07	4.77	8.4	290	1.70	0.12	0.01	<0.02	76.4	6.1	40
TRD001092		2.80		0.005		0.08	7.08	5.5	520	2.76	0.36	0.01	0.04	87.9	12.2	60
TRD001093		1.24		0.006		0.05	8.12	2.8	620	2.96	0.31	0.01	0.14	100.5	10.4	65
TRD001094		2.28		0.010		0.03	7.70	5.9	590	2.57	0.18	0.01	0.06	101.0	13.2	64
TRD001095		1.24		0.007		0.02	7.37	4.5	510	2.48	0.34	0.01	0.04	54.6	7.4	63
TRD001096		2.03		<0.005		0.73	7.61	3.2	530	2.43	0.16	<0.01	0.03	51.1	9.5	61
TRD001097		1.38		1.790		0.02	7.99	5.2	540	2.79	0.12	0.01	0.02	53.7	6.5	66
TRD001098		1.80		1.140		0.01	8.06	6.6	590	2.67	0.07	0.01	0.02	78.1	12.3	68
TRD001099		1.14		0.034		0.02	7.96	5.5	600	2.16	0.13	0.01	0.29	91.3	13.0	68
TRD001100		1.12		0.008		0.06	8.15	3.9	610	2.27	0.67	0.01	0.13	90.2	24.1	69
TRD001101		2.56		0.025		0.04	8.22	3.9	620	2.50	0.29	0.01	0.08	103.0	15.6	69
TRD001102		1.42		0.005		0.08	8.48	3.0	610	2.49	0.59	0.01	0.07	117.5	25.5	73
TRD001103		1.61		<0.005		0.05	8.16	7.7	610	2.54	0.46	0.01	0.07	124.5	20.0	69
TRD001104		1.27		<0.005		0.05	8.36	6.1	640	2.76	0.52	<0.01	0.03	68.1	14.4	64
TRD001105		1.44		0.005		0.04	7.83	14.3	630	2.72	0.63	0.01	0.04	89.3	9.1	65
TRD001106		1.02		0.018		0.06	4.56	30.9	280	2.91	0.18	0.01	0.03	102.0	25.5	45
TRD001107		2.19		0.217		0.10	3.89	25.4	250	2.96	0.14	0.01	0.04	107.0	34.1	38
TRD001108		1.96		0.011		0.08	4.69	17.0	350	2.59	0.15	0.01	0.03	113.5	34.6	42
TRD001109		1.11		<0.005		0.04	7.93	11.6	550	2.97	0.32	0.01	0.09	104.0	27.1	64
TRD001110		2.24		0.006		0.07	6.63	21.2	460	2.69	0.33	0.01	0.07	105.5	32.5	56
TRD001111		1.27		<0.005		0.09	7.49	23.0	570	2.37	0.49	0.01	0.13	89.8	30.6	67
TRD001112		1.31		<0.005		0.06	8.15	30.3	590	2.60	0.48	0.01	0.08	101.0	30.7	65
TRD001113		1.51		<0.005		0.06	7.71	19.3	550	2.39	0.40	0.01	0.08	98.6	23.3	65
TRD001114		2.34		<0.005		0.04	7.51	15.4	520	2.35	0.35	0.01	0.07	101.0	21.4	63
TRD001115		1.67		<0.005		0.02	7.98	9.5	540	2.15	0.27	0.01	0.02	94.8	12.2	67
TRD001116		1.92		0.005		0.06	8.40	1.0	210	0.78	0.04	6.80	0.09	27.3	39.9	3
TRD001117		1.41		0.015		0.05	6.88	21.7	500	2.02	0.36	0.01	0.03	92.9	18.9	57
TRD001118		2.00		0.006		0.12	7.79	40.5	600	2.28	0.47	0.01	0.44	106.5	21.8	64
TRD001119		0.96		0.013		0.08	7.05	20.0	530	2.41	0.56	0.03	0.27	81.1	12.6	65
TRD001120		2.72	99.5	0.027		0.06	5.69	25.8	400	1.83	0.35	0.01	0.17	73.7	10.3	52



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001081		3.80	25.0	2.81	19.50	0.08	3.3	0.067	2.36	32.8	15.6	0.19	448	0.37	0.09	14.2
TRD001082		4.15	39.5	3.33	20.8	0.11	3.2	0.075	2.66	32.7	13.1	0.23	126	0.28	0.10	14.3
TRD001083		3.63	25.1	2.60	19.55	0.09	3.1	0.063	2.46	30.2	10.8	0.20	100	0.29	0.09	13.2
TRD001084		3.23	18.7	2.92	18.35	0.09	3.3	0.055	2.31	27.7	9.3	0.19	85	0.38	0.09	13.0
TRD001085		3.31	19.9	2.15	17.95	0.08	3.1	0.066	2.32	24.4	9.2	0.19	69	0.52	0.09	13.2
TRD001086		3.06	15.4	1.27	12.70	0.05	2.9	0.054	1.73	26.9	6.4	0.17	88	1.24	0.06	11.6
TRD001087		2.96	13.6	1.15	12.10	0.06	3.1	0.037	1.59	29.4	6.3	0.15	71	1.00	0.05	10.1
TRD001088		2.88	11.8	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
TRD001089		1.37	152.5	7.28	17.00	0.13	2.7	0.059	0.81	13.6	11.4	2.49	1290	0.46	1.54	5.0
TRD001090		2.75	13.5	1.14	11.35	0.07	2.9	0.029	1.37	26.1	6.3	0.13	180	0.87	0.05	9.7
TRD001091		3.25	11.9	1.49	11.25	0.06	3.0	0.031	1.22	27.6	8.9	0.13	298	0.76	0.04	9.6
TRD001092		4.44	31.0	2.44	17.95	0.12	3.6	0.060	2.20	46.2	18.0	0.39	593	0.62	0.08	13.8
TRD001093		4.22	36.9	2.65	21.0	0.16	3.4	0.072	2.79	71.4	22.6	0.73	437	0.38	0.10	14.8
TRD001094		4.23	32.7	2.84	20.1	0.12	3.2	0.060	2.60	45.4	27.1	0.59	549	0.32	0.09	14.2
TRD001095		5.74	35.3	3.36	18.85	0.07	3.4	0.057	2.39	21.9	21.4	0.31	275	1.88	0.08	14.2
TRD001096		5.53	27.3	3.15	19.55	0.08	3.3	0.055	2.57	17.4	17.8	0.28	294	1.37	0.09	14.5
TRD001097		5.65	14.5	3.95	21.2	0.11	3.3	0.079	2.41	32.0	17.9	0.42	370	0.85	0.08	15.2
TRD001098		5.92	8.5	3.91	21.0	0.16	3.1	0.065	2.66	49.2	20.8	0.77	381	1.48	0.09	15.1
TRD001099		6.12	21.1	2.86	20.5	0.14	3.4	0.075	2.63	51.8	23.2	1.02	839	0.43	0.09	15.8
TRD001100		8.11	49.7	2.75	22.0	0.15	3.6	0.072	2.77	51.3	25.6	1.07	741	2.44	0.09	15.7
TRD001101		6.38	31.6	3.18	21.2	0.17	3.2	0.068	2.79	71.4	24.4	1.08	722	0.95	0.09	14.8
TRD001102		8.12	45.9	2.97	22.1	0.18	3.6	0.073	2.86	71.2	27.4	1.17	997	4.56	0.08	16.2
TRD001103		5.17	41.4	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
TRD001104		4.43	39.0	2.47	21.2	0.12	3.1	0.080	2.78	43.2	15.4	0.40	307	0.51	0.10	15.1
TRD001105		4.36	37.1	2.65	20.6	0.14	3.6	0.067	2.71	53.5	13.3	0.31	211	0.90	0.10	15.2
TRD001106		3.22	36.9	4.74	11.50	0.10	2.6	0.039	1.31	38.7	10.1	0.16	361	0.57	0.04	9.1
TRD001107		3.29	62.5	7.46	10.25	0.11	2.1	0.026	1.06	35.1	9.8	0.13	708	0.48	0.04	6.4
TRD001108		3.73	39.8	4.15	11.85	0.10	2.5	0.028	1.29	43.3	12.8	0.15	874	0.56	0.05	8.7
TRD001109		3.97	39.5	3.89	20.4	0.12	3.0	0.055	2.54	42.0	24.0	0.72	618	0.31	0.09	13.8
TRD001110		4.43	45.9	3.95	16.95	0.12	2.9	0.051	2.15	43.7	19.6	0.63	576	1.13	0.08	12.2
TRD001111		7.96	42.6	3.16	19.90	0.13	3.4	0.073	2.79	42.3	26.0	1.13	619	2.49	0.08	14.7
TRD001112		7.45	38.8	3.49	21.0	0.12	3.2	0.073	3.09	49.9	28.4	1.33	680	0.95	0.10	14.0
TRD001113		6.85	38.0	3.47	18.80	0.14	3.1	0.074	2.77	48.6	30.7	1.24	721	0.79	0.09	14.2
TRD001114		6.09	38.8	3.75	18.40	0.13	3.0	0.073	2.55	47.4	26.4	1.18	741	0.59	0.09	14.4
TRD001115		5.71	27.7	4.21	18.40	0.18	2.8	0.074	2.71	45.3	32.5	1.55	840	0.33	0.09	14.0
TRD001116		1.38	145.0	6.98	16.60	0.21	2.6	0.053	0.77	12.8	11.8	2.41	1240	0.40	1.50	4.9
TRD001117		6.82	32.0	3.21	16.85	0.17	2.7	0.061	2.44	46.1	28.0	1.24	734	1.18	0.08	12.2
TRD001118		9.29	36.9	3.06	19.25	0.15	3.4	0.072	2.86	52.3	31.4	1.38	757	3.43	0.08	13.6
TRD001119		5.42	42.8	2.51	18.30	0.12	3.7	0.062	2.55	41.8	18.0	0.53	233	4.88	0.09	12.8
TRD001120		4.93	27.8	2.32	13.90	0.09	2.9	0.050	1.88	34.4	15.5	0.50	301	3.01	0.06	10.8



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001081		25.5	120	14.8	114.0	<0.002	0.01	0.42	13.4	<1	3.9	42.2	1.09	<0.05	18.50	0.411
TRD001082		24.2	110	11.6	122.0	<0.002	0.01	0.34	15.0	<1	3.8	41.8	1.11	0.05	18.45	0.416
TRD001083		19.8	110	12.7	112.5	<0.002	0.01	0.39	13.2	<1	3.7	35.2	1.05	<0.05	17.85	0.389
TRD001084		18.0	100	14.2	111.0	<0.002	0.01	0.53	12.6	<1	3.4	35.9	1.00	<0.05	18.85	0.386
TRD001085		18.2	110	14.6	108.0	<0.002	0.01	0.54	12.0	<1	3.6	36.7	1.02	<0.05	16.90	0.380
TRD001086		13.6	130	13.1	99.6	<0.002	0.01	0.84	8.1	<1	3.2	39.2	0.86	0.05	12.55	0.327
TRD001087		12.0	110	10.8	81.5	<0.002	0.01	0.68	8.1	<1	2.6	24.3	0.80	<0.05	12.35	0.308
TRD001088		11.3	100	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
TRD001089		40.9	430	6.3	32.4	<0.002	0.05	0.15	42.0	1	1.0	155.0	0.32	<0.05	3.60	0.407
TRD001090		13.8	100	10.0	74.9	<0.002	0.01	0.52	7.5	<1	2.2	23.6	0.75	<0.05	11.30	0.291
TRD001091		23.1	120	11.8	79.4	<0.002	0.01	0.49	6.8	1	2.1	29.8	0.77	<0.05	11.20	0.291
TRD001092		37.3	120	14.6	118.5	<0.002	0.06	0.80	11.3	<1	3.2	34.8	1.04	<0.05	16.90	0.390
TRD001093		30.0	110	11.0	131.5	<0.002	0.05	0.81	13.5	<1	3.9	38.6	1.16	<0.05	19.00	0.437
TRD001094		38.3	110	10.7	131.5	<0.002	0.01	0.71	13.2	<1	3.8	38.6	1.10	<0.05	18.10	0.411
TRD001095		21.3	90	10.4	138.5	<0.002	0.01	3.15	12.4	1	3.2	24.3	1.11	0.05	19.05	0.409
TRD001096		21.5	90	9.1	141.0	<0.002	0.01	1.42	12.8	<1	3.6	27.4	1.11	<0.05	18.40	0.416
TRD001097		31.0	100	11.6	133.5	<0.002	0.01	0.49	14.0	<1	3.8	32.3	1.15	<0.05	19.35	0.428
TRD001098		31.6	100	9.6	138.0	<0.002	0.01	0.52	14.4	<1	3.8	31.2	1.08	<0.05	18.95	0.424
TRD001099		36.3	130	10.8	138.0	<0.002	0.02	0.45	13.8	<1	3.9	42.8	1.15	<0.05	19.25	0.452
TRD001100		48.9	160	14.6	155.5	0.003	0.48	1.90	14.5	2	3.8	50.0	1.20	0.06	18.80	0.456
TRD001101		36.9	150	10.8	145.5	<0.002	0.18	0.70	14.0	<1	3.9	45.2	1.14	<0.05	19.00	0.437
TRD001102		61.9	180	19.4	168.0	0.005	0.89	1.28	15.2	1	3.9	52.9	1.23	0.06	20.5	0.465
TRD001103		50.9	140	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
TRD001104		28.7	140	12.8	137.0	<0.002	0.07	0.68	13.5	<1	4.6	40.8	1.23	0.05	19.15	0.406
TRD001105		20.7	210	13.0	133.0	<0.002	0.04	0.86	13.8	1	3.9	41.8	1.21	0.05	19.55	0.421
TRD001106		22.0	550	15.2	95.9	<0.002	0.03	0.95	12.2	<1	2.3	22.6	0.69	<0.05	11.10	0.265
TRD001107		29.3	610	17.4	82.7	<0.002	0.03	0.91	15.2	<1	1.9	18.8	0.50	0.05	9.63	0.194
TRD001108		25.9	500	15.6	90.9	<0.002	0.02	0.70	11.0	<1	2.3	28.0	0.68	<0.05	11.50	0.263
TRD001109		63.9	190	9.9	117.0	<0.002	0.06	0.54	14.6	<1	3.8	40.2	1.05	<0.05	18.25	0.416
TRD001110		55.4	310	15.3	115.5	<0.002	0.25	0.94	13.4	<1	3.2	35.6	0.94	<0.05	14.70	0.361
TRD001111		56.2	170	20.6	161.5	0.004	0.75	1.82	13.4	1	3.8	35.5	1.11	0.05	17.25	0.430
TRD001112		78.8	130	17.0	166.0	0.002	0.32	1.37	14.0	<1	3.9	34.2	1.12	0.05	18.70	0.435
TRD001113		54.3	140	17.4	150.0	<0.002	0.23	1.14	12.8	1	3.9	33.8	1.06	<0.05	18.20	0.416
TRD001114		52.1	170	15.0	139.0	<0.002	0.11	0.88	13.0	<1	3.4	35.6	1.01	<0.05	16.30	0.397
TRD001115		31.2	130	10.2	134.5	<0.002	0.08	1.02	12.4	1	3.8	36.2	1.01	<0.05	16.65	0.408
TRD001116		39.0	420	5.1	34.9	<0.002	0.04	0.14	40.4	1	1.1	154.0	0.31	<0.05	3.47	0.394
TRD001117		37.3	130	16.0	137.0	0.002	0.28	1.06	11.6	<1	3.4	31.8	0.92	0.05	14.40	0.351
TRD001118		45.4	160	19.0	171.0	0.003	0.74	1.48	13.0	1	3.7	36.8	1.03	<0.05	18.90	0.402
TRD001119		29.7	160	10.5	135.5	<0.002	0.50	0.91	12.0	1	3.6	54.6	0.98	0.12	17.00	0.380
TRD001120		24.9	170	10.6	117.5	<0.002	0.31	0.86	9.1	1	2.9	46.7	0.81	0.09	13.35	0.313



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001081		0.52	2.8	84	4.1	20.0	94	121.5
TRD001082		0.45	3.0	90	3.3	21.8	100	110.0
TRD001083		0.40	2.9	81	3.1	19.9	84	110.5
TRD001084		0.42	3.0	85	4.3	25.2	77	113.0
TRD001085		0.39	2.8	83	4.0	15.6	53	112.0
TRD001086		0.32	2.2	68	3.7	16.1	41	115.0
TRD001087		0.30	2.2	57	4.0	13.3	36	107.5
TRD001088		0.32	1.9	47	4.2	13.0	28	104.5
TRD001089		0.19	1.0	232	0.4	24.2	89	103.5
TRD001090		0.42	2.2	49	4.0	14.0	42	105.5
TRD001091		0.48	2.4	48	4.6	17.4	53	104.0
TRD001092		0.62	3.0	83	4.0	32.3	116	126.5
TRD001093		0.53	2.9	94	4.2	41.8	173	123.0
TRD001094		0.58	2.7	87	5.8	38.1	129	118.0
TRD001095		0.61	4.6	101	8.5	28.5	81	126.5
TRD001096		0.64	3.7	111	7.7	24.8	79	118.0
TRD001097		0.53	3.3	106	4.3	35.5	126	122.0
TRD001098		0.56	3.0	102	4.3	40.3	112	118.5
TRD001099		0.60	2.9	92	3.5	36.9	114	128.0
TRD001100		0.99	3.9	164	4.0	37.4	109	134.5
TRD001101		0.70	2.9	109	3.6	42.7	117	115.5
TRD001102		1.14	4.1	115	3.7	44.9	104	131.0
TRD001103		0.80	3.0	102	3.4	41.8	144	115.0
TRD001104		0.61	3.4	92	4.1	31.8	92	114.0
TRD001105		0.54	3.7	106	4.0	27.4	57	132.0
TRD001106		0.63	4.7	54	4.9	19.6	57	92.7
TRD001107		1.38	5.7	46	10.0	18.4	79	73.3
TRD001108		1.28	4.1	52	8.9	20.7	49	87.8
TRD001109		1.15	2.8	89	5.2	24.8	167	110.0
TRD001110		1.46	3.9	77	6.0	24.5	114	102.5
TRD001111		1.86	4.3	115	3.1	32.6	101	124.5
TRD001112		1.24	3.2	102	3.3	36.4	203	116.0
TRD001113		1.11	3.2	95	3.9	33.1	156	110.5
TRD001114		0.90	3.2	84	3.6	31.4	163	106.0
TRD001115		0.80	2.1	89	3.0	29.1	140	99.9
TRD001116		0.19	0.9	220	0.4	23.0	85	101.5
TRD001117		0.98	2.5	80	3.1	28.0	111	97.1
TRD001118		1.24	3.9	133	3.6	33.5	98	125.5
TRD001119		0.77	3.3	98	5.7	21.7	63	120.5
TRD001120		0.67	2.9	85	7.4	19.2	54	106.0



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001121		1.76		0.008		0.04	7.93	17.8	610	2.68	0.38	0.01	0.05	79.3	13.2	66
TRD001122		2.55		0.006		0.02	7.96	2.8	540	2.55	0.33	0.01	0.02	92.5	14.2	67
TRD001123		2.12		0.005		0.04	7.76	17.0	550	2.52	0.43	0.01	0.17	89.5	23.5	66
TRD001124		1.88		0.009		0.04	8.01	14.6	570	2.50	0.39	0.01	0.26	93.3	30.2	70
TRD001125		1.68		0.009		0.04	7.93	4.8	520	3.06	0.21	0.01	0.11	74.4	13.6	68
TRD001126		1.78		0.040		0.05	8.07	13.6	550	3.03	0.40	0.01	0.06	79.1	31.6	70
TRD001127		3.18		0.012		0.05	8.31	7.8	580	3.27	0.31	0.01	0.06	83.4	25.3	70
TRD001128		2.39		0.008		0.01	8.09	2.7	550	2.37	0.23	0.01	0.03	82.0	16.2	69
TRD001129		2.57		0.006		0.04	8.26	14.4	590	2.66	0.32	0.02	0.05	92.0	27.2	68
TRD001130		2.09		0.007		0.09	8.10	19.9	570	2.73	0.51	0.02	0.07	92.2	31.8	70
TRD001131		2.41		0.005		0.04	8.03	3.7	580	2.61	0.39	0.02	0.03	88.3	23.9	68
TRD001132		2.54		0.387		0.02	7.98	1.9	640	2.79	0.34	0.01	<0.02	91.3	18.2	70
TRD001133		2.17		0.022		0.02	8.07	1.8	690	2.63	0.22	0.02	0.05	90.0	19.5	67
TRD001134		2.96		0.014		0.03	8.29	3.6	850	2.73	0.21	0.01	0.05	93.2	22.0	69
TRD001135		0.83		0.020		0.03	8.47	6.2	510	2.51	0.38	0.01	0.02	29.2	5.9	81
TRD001136		1.28		0.026		0.03	8.25	8.3	500	3.21	0.35	0.01	0.02	76.0	2.1	67
TRD001137		2.52		0.017		0.02	5.41	8.3	280	2.17	0.21	0.01	<0.02	54.7	2.3	52
TRD001138		1.66		0.016		0.04	6.08	7.1	360	2.30	0.19	0.01	<0.02	40.2	2.9	68
TRD001139		1.08		0.019		0.03	7.16	6.9	420	2.78	0.32	0.01	<0.02	32.0	2.4	78
TRD001140		1.89		0.017		0.03	7.49	8.8	430	2.68	0.28	0.01	<0.02	46.5	2.2	72
TRD001141		2.20		0.014		0.03	7.59	8.7	400	2.24	0.27	0.01	<0.02	41.8	2.6	78
TRD001142		1.76		0.007		0.04	8.43	6.5	480	2.30	0.44	<0.01	<0.02	49.7	3.1	81
TRD001143		2.03		0.006		0.03	8.53	5.8	490	2.33	0.50	<0.01	<0.02	67.9	4.9	67
TRD001144		1.74		<0.005		0.03	8.48	3.7	510	2.18	0.42	<0.01	0.02	138.5	10.6	68
TRD001145		0.84		0.017		0.06	7.63	1.5	210	0.71	0.04	6.48	0.10	27.7	39.5	5
TRD001146		0.06		3.07		0.21	7.12	603	680	2.01	0.35	0.74	0.05	71.9	13.8	127
TRD001147		0.06		<0.005		0.01	0.05	1.2	<10	<0.05	0.01	0.01	0.02	1.77	0.4	5
TRD001148		0.06		1.040		0.28	7.21	52.0	140	0.36	0.04	7.22	0.55	12.35	41.8	126
TRD001149		0.06		>10.0	26.3	1.44	6.55	4050	580	2.41	0.67	0.85	0.08	68.2	12.8	108
TRD001150		1.38		0.007		0.03	7.99	3.6	470	2.20	0.33	0.01	<0.02	263	24.3	69
TRD001151		1.40		0.005		0.04	8.21	9.6	520	2.56	0.46	0.01	0.02	229	39.9	72
TRD001152		2.60		0.008		0.04	8.56	6.5	530	2.65	0.42	0.01	<0.02	215	23.4	72
TRD001153		1.25		0.005		0.04	8.50	6.4	540	2.60	0.43	0.01	0.02	>500	46.0	68
TRD001154		1.25		0.009		0.02	7.43	3.4	430	2.36	0.28	0.01	<0.02	171.0	18.1	64
TRD001155		0.96		0.007		0.02	8.67	2.8	590	2.54	0.39	0.01	<0.02	188.0	31.0	69
TRD001156		1.23		<0.005		0.04	7.90	5.1	500	2.53	0.42	0.01	<0.02	321	32.7	67
TRD001157		1.53		<0.005		0.03	9.26	5.5	630	2.80	0.44	0.01	0.03	214	24.0	76
TRD001158		3.64		0.005		0.03	8.27	4.9	560	2.65	0.35	0.01	<0.02	248	38.8	72
TRD001159		1.38		<0.005		0.02	8.82	4.1	610	2.67	0.40	0.01	0.03	145.5	22.6	73
TRD001160		1.40	99.1	<0.005		0.03	8.72	2.7	610	2.96	0.43	0.01	0.02	108.5	19.1	76



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001121		5.99	40.9	3.46	19.30	0.11	3.1	0.073	2.83	38.0	26.5	0.98	608	0.81	0.12	14.2
TRD001122		7.39	23.9	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
TRD001123		8.01	37.3	3.72	19.60	0.16	3.2	0.076	2.78	44.2	33.2	1.34	988	1.04	0.18	14.4
TRD001124		7.92	40.7	3.55	20.0	0.14	3.2	0.066	2.92	45.7	30.5	1.35	897	1.78	0.18	14.6
TRD001125		7.93	22.3	5.28	18.70	0.15	3.1	0.067	2.73	36.0	26.8	1.15	738	0.75	0.12	13.7
TRD001126		7.74	33.0	3.98	20.3	0.16	3.4	0.071	2.67	38.3	22.8	0.86	680	3.32	0.12	14.8
TRD001127		7.44	49.4	3.53	20.9	0.13	3.2	0.079	2.88	40.1	23.1	0.93	609	2.02	0.15	15.1
TRD001128		7.64	18.2	4.15	19.85	0.14	2.9	0.072	2.85	40.1	28.2	1.32	849	0.56	0.22	14.5
TRD001129		8.19	29.3	3.87	20.4	0.16	3.1	0.082	2.88	46.6	28.7	1.37	1185	0.57	0.30	14.9
TRD001130		7.85	70.0	3.61	20.3	0.14	3.2	0.078	2.89	45.9	26.8	1.34	933	0.96	0.38	14.8
TRD001131		8.20	34.7	4.25	20.3	0.17	3.1	0.075	2.84	43.8	29.1	1.43	924	0.79	0.43	14.7
TRD001132		8.91	16.1	3.92	19.45	0.12	3.2	0.071	2.85	46.3	27.0	1.30	901	0.48	0.27	14.9
TRD001133		9.99	22.5	3.87	19.65	0.13	3.2	0.073	3.13	45.6	27.8	1.32	984	0.38	0.20	14.8
TRD001134		11.15	15.4	3.85	20.8	0.15	3.2	0.066	3.25	46.3	28.0	1.25	930	0.40	0.16	15.1
TRD001135		3.82	28.0	3.65	20.2	0.09	3.3	0.071	2.57	14.8	10.6	0.25	225	0.53	0.10	15.1
TRD001136		3.59	14.5	2.39	34.7	0.11	20.4	0.127	2.94	35.3	9.4	0.23	61	1.76	0.10	118.5
TRD001137		2.52	11.3	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
TRD001138		2.69	16.8	2.65	15.50	0.07	4.9	0.060	1.80	19.9	6.2	0.16	81	1.32	0.06	27.4
TRD001139		3.28	24.7	3.94	16.80	0.08	3.3	0.056	2.25	17.0	7.5	0.18	74	0.86	0.08	14.4
TRD001140		4.37	18.6	3.19	17.80	0.08	4.1	0.059	2.28	24.2	7.7	0.21	127	0.95	0.07	14.8
TRD001141		3.82	22.1	3.77	16.75	0.08	3.8	0.059	2.14	17.5	6.8	0.18	212	0.85	0.07	14.0
TRD001142		4.37	26.3	4.77	19.35	0.11	3.3	0.066	2.70	12.8	9.0	0.22	260	0.49	0.09	14.5
TRD001143		5.34	30.9	3.45	20.2	0.08	3.5	0.079	2.89	13.2	11.4	0.24	249	0.39	0.10	15.4
TRD001144		5.55	33.2	3.35	21.3	0.08	3.2	0.087	2.87	13.6	16.8	0.25	491	0.35	0.10	15.0
TRD001145		1.22	133.0	6.94	16.85	0.14	2.8	0.059	0.77	12.3	11.4	2.35	1260	0.47	1.47	5.2
TRD001146		7.85	30.0	3.74	17.90	0.15	3.5	0.069	2.68	35.2	38.5	1.43	333	0.66	0.68	13.6
TRD001147		0.05	6.9	0.34	0.17	<0.05	0.1	<0.005	<0.01	0.8	0.5	<0.01	30	0.67	<0.01	0.3
TRD001148		0.74	175.0	7.84	15.85	0.06	1.5	0.065	0.37	4.8	11.4	3.86	1380	0.95	1.75	3.3
TRD001149		8.38	56.5	3.49	17.00	0.11	3.1	0.064	2.65	34.0	38.3	1.27	365	1.54	0.51	11.7
TRD001150		4.81	32.1	3.61	20.0	0.09	3.9	0.057	2.60	22.2	22.9	0.23	968	0.44	0.09	15.8
TRD001151		5.05	42.9	3.82	21.3	0.08	3.6	0.092	2.62	27.2	23.2	0.22	1420	0.55	0.10	15.8
TRD001152		5.11	37.8	3.77	22.4	0.08	3.7	0.068	2.88	26.3	21.3	0.24	1075	0.53	0.10	16.0
TRD001153		4.63	38.3	3.30	20.9	0.08	3.4	0.068	2.75	28.3	27.9	0.23	1720	0.32	0.10	15.7
TRD001154		5.01	30.9	3.05	19.10	0.08	4.0	0.066	2.19	29.0	15.4	0.18	648	0.49	0.08	15.5
TRD001155		4.36	27.7	3.54	21.9	0.06	3.8	0.070	2.83	21.9	17.2	0.22	897	0.31	0.11	16.4
TRD001156		4.95	45.7	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
TRD001157		5.22	36.8	3.47	23.6	0.10	3.8	0.079	3.10	31.3	19.4	0.25	911	0.31	0.12	17.4
TRD001158		4.92	35.0	3.48	21.8	0.08	3.7	0.079	2.66	29.4	25.7	0.21	1515	0.42	0.10	16.6
TRD001159		4.91	33.5	3.56	21.7	0.10	3.5	0.078	3.08	33.0	21.0	0.26	846	0.29	0.11	16.7
TRD001160		4.95	33.1	3.97	22.8	0.10	3.6	0.081	3.03	37.0	19.3	0.25	719	0.36	0.11	16.6



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm								
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001121		27.3	160	10.9	140.5	<0.002	0.06	0.81	12.9	1	3.9	48.4	1.05	0.07	15.90	0.414
TRD001122		34.6	130	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
TRD001123		43.1	110	11.6	159.5	<0.002	0.11	0.67	13.2	<1	4.0	39.6	1.05	0.05	17.50	0.414
TRD001124		48.5	110	10.6	167.5	<0.002	0.20	0.60	13.2	1	4.1	38.2	1.11	0.06	18.55	0.433
TRD001125		31.6	180	8.2	145.5	<0.002	0.06	0.43	12.6	<1	3.5	37.8	1.03	0.06	17.10	0.416
TRD001126		56.2	140	13.0	152.0	0.002	0.09	0.63	14.2	<1	3.8	45.5	1.12	0.09	19.35	0.435
TRD001127		44.8	170	10.7	151.0	<0.002	0.07	0.76	15.2	<1	4.3	42.2	1.12	<0.05	18.95	0.439
TRD001128		36.5	110	6.8	162.5	<0.002	0.02	0.36	13.2	<1	4.0	38.8	1.07	0.06	17.80	0.430
TRD001129		57.9	120	16.0	170.0	<0.002	0.04	0.42	13.6	<1	4.1	46.1	1.05	<0.05	17.45	0.432
TRD001130		53.9	120	23.7	165.0	<0.002	0.05	0.42	13.9	<1	4.0	46.4	1.12	0.06	18.55	0.428
TRD001131		59.7	110	14.3	169.0	<0.002	0.03	0.39	14.4	<1	4.0	42.3	1.09	<0.05	18.30	0.423
TRD001132		43.9	150	12.1	182.5	<0.002	0.01	0.37	13.0	<1	3.9	53.3	1.07	<0.05	18.20	0.430
TRD001133		39.9	130	9.3	189.0	<0.002	0.02	0.35	13.1	<1	4.0	46.2	1.08	0.05	17.95	0.424
TRD001134		40.4	130	9.8	210	<0.002	0.01	0.39	13.6	<1	4.2	60.2	1.12	<0.05	18.85	0.436
TRD001135		19.0	120	14.9	118.5	<0.002	0.02	0.67	13.6	<1	4.1	38.0	1.11	0.05	19.90	0.431
TRD001136		11.8	170	20.1	125.0	<0.002	0.01	1.26	10.7	1	9.8	56.8	8.46	0.05	59.8	0.362
TRD001137		12.4	140	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
TRD001138		14.5	130	12.0	88.2	<0.002	0.01	0.80	9.0	<1	3.6	36.1	1.58	<0.05	25.5	0.331
TRD001139		15.2	160	12.8	108.5	<0.002	0.02	0.92	12.0	<1	3.4	35.9	1.03	<0.05	22.3	0.372
TRD001140		13.0	160	15.3	127.0	<0.002	0.02	0.85	11.8	1	3.5	37.9	1.10	0.06	23.5	0.416
TRD001141		15.3	140	13.7	111.5	<0.002	0.02	0.92	11.8	1	3.2	34.5	1.02	<0.05	27.2	0.389
TRD001142		16.2	110	18.4	130.0	<0.002	0.02	0.77	16.2	<1	3.8	38.2	1.09	0.05	22.4	0.403
TRD001143		17.6	100	16.1	150.5	<0.002	0.02	0.73	15.5	<1	4.6	37.1	1.19	0.05	20.4	0.402
TRD001144		26.0	100	15.8	154.5	<0.002	0.02	0.69	17.1	<1	4.7	37.5	1.16	0.06	19.30	0.418
TRD001145		40.7	430	6.2	22.6	<0.002	0.04	0.19	41.3	1	1.1	151.0	0.33	<0.05	3.60	0.391
TRD001146		59.8	560	17.3	151.5	<0.002	0.14	606	14.2	<1	3.7	101.5	0.96	<0.05	12.80	0.458
TRD001147		2.8	10	<0.5	0.3	<0.002	0.01	0.07	0.2	<1	0.5	0.4	<0.05	<0.05	0.52	0.015
TRD001148		90.3	430	20.4	11.6	0.002	0.33	1.23	44.2	1	1.0	196.5	0.20	0.09	0.80	0.602
TRD001149		48.1	520	32.2	163.0	<0.002	0.81	3830	12.2	1	3.5	108.0	0.86	<0.05	11.85	0.376
TRD001150		32.5	120	15.7	144.0	<0.002	0.02	0.92	17.2	<1	3.9	36.9	1.23	<0.05	20.9	0.458
TRD001151		37.8	120	21.5	142.5	<0.002	0.02	0.75	16.3	<1	4.2	41.8	1.19	0.05	19.35	0.453
TRD001152		35.7	130	20.2	147.0	<0.002	0.02	0.75	17.2	<1	4.3	43.0	1.25	0.05	20.8	0.457
TRD001153		44.9	120	16.6	137.5	<0.002	0.02	0.74	15.8	<1	4.2	42.7	1.21	<0.05	18.75	0.448
TRD001154		26.5	160	14.6	118.0	<0.002	0.02	0.70	15.0	<1	3.8	53.0	1.17	0.05	19.05	0.449
TRD001155		27.8	120	14.2	142.0	<0.002	0.02	0.61	18.2	<1	4.4	47.1	1.26	0.05	20.7	0.464
TRD001156		43.5	130	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
TRD001157		32.9	140	18.6	154.0	<0.002	0.02	0.72	18.2	<1	4.7	51.6	1.33	0.05	21.5	0.506
TRD001158		37.7	140	18.0	137.0	<0.002	0.02	0.83	17.2	<1	4.4	48.3	1.27	<0.05	20.9	0.461
TRD001159		35.4	120	16.8	155.5	<0.002	0.02	0.66	16.2	<1	4.7	51.3	1.24	0.05	19.95	0.458
TRD001160		29.5	130	17.8	155.5	<0.002	0.02	0.60	17.6	<1	4.4	55.3	1.25	0.05	20.1	0.459



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**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001121		0.74	2.7	92	5.3	22.6	118	113.5
TRD001122		0.75	2.2	88	3.8	23.7	112	107.5
TRD001123		0.88	2.8	100	3.9	27.3	117	114.0
TRD001124		1.24	3.1	105	3.3	26.5	128	114.5
TRD001125		0.78	2.5	93	4.4	20.6	95	106.5
TRD001126		1.10	3.8	107	4.7	21.9	87	116.5
TRD001127		0.90	3.3	103	4.7	24.1	92	131.0
TRD001128		0.80	2.4	93	3.5	25.5	90	109.5
TRD001129		0.92	2.9	95	3.1	29.9	112	114.5
TRD001130		0.92	3.9	96	3.3	29.0	111	114.5
TRD001131		0.94	2.6	91	3.2	30.0	108	110.0
TRD001132		0.86	2.5	92	3.1	29.9	88	114.5
TRD001133		0.92	2.4	92	3.0	26.8	96	117.0
TRD001134		1.06	2.6	92	4.0	30.4	88	113.5
TRD001135		0.48	2.7	94	7.1	14.2	83	118.0
TRD001136		0.54	5.3	65	8.3	63.8	48	>500
TRD001137		0.33	2.9	48	5.8	26.9	32	298
TRD001138		0.32	2.5	62	4.5	18.7	44	174.5
TRD001139		0.44	2.3	77	5.4	12.7	50	119.0
TRD001140		0.56	2.6	80	5.7	13.3	48	155.5
TRD001141		0.43	2.6	75	4.3	11.6	49	134.5
TRD001142		0.68	2.6	88	4.8	10.6	57	116.0
TRD001143		0.67	2.9	88	4.9	12.0	54	120.0
TRD001144		0.72	2.8	92	6.7	12.8	63	115.0
TRD001145		0.17	0.9	219	0.5	23.2	91	108.0
TRD001146		0.74	2.4	105	2.7	16.8	101	125.0
TRD001147		<0.02	0.1	2	0.1	0.5	15	2.0
TRD001148		0.18	0.2	276	26.2	20.2	147	47.6
TRD001149		0.81	2.3	88	7.9	13.4	98	111.5
TRD001150		0.82	3.0	91	9.6	15.4	69	147.5
TRD001151		1.04	3.1	95	7.0	17.6	97	132.0
TRD001152		0.77	3.1	98	6.0	17.6	89	134.5
TRD001153		0.82	3.1	94	4.5	20.2	113	128.0
TRD001154		0.59	3.5	86	5.3	16.0	75	152.0
TRD001155		0.82	3.2	96	3.9	17.9	88	144.0
TRD001156		0.82	3.3	89	3.9	19.4	117	137.5
TRD001157		0.73	3.3	103	4.4	22.2	114	143.5
TRD001158		0.97	3.3	96	4.6	18.6	103	136.5
TRD001159		0.70	2.9	98	4.2	22.9	100	133.5
TRD001160		0.65	3.1	101	4.4	22.8	95	130.5



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**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001161		1.12		0.005		0.06	7.45	2.1	540	2.40	0.38	0.01	0.02	167.0	31.0	66
TRD001162		1.64		<0.005		0.02	8.39	2.0	640	2.73	0.44	0.01	0.03	53.9	13.2	72
TRD001163		1.70		<0.005		0.05	9.18	2.2	650	3.02	0.51	0.01	0.05	154.0	14.2	77
TRD001164		2.08		<0.005		0.04	8.61	1.9	630	2.86	0.43	0.01	0.04	112.0	13.9	72
TRD001165		0.67		<0.005		0.05	9.00	1.9	660	2.96	0.47	0.01	0.03	172.0	9.4	73
TRD001166		0.98		<0.005		0.04	8.77	2.3	640	3.25	0.50	0.01	0.04	326	7.9	72
TRD001167		0.91		<0.005		0.04	9.28	1.4	690	3.10	0.45	0.01	0.03	191.0	11.6	74
TRD001168		0.99		0.005		0.03	8.38	4.4	650	2.80	0.41	0.01	0.02	75.1	4.7	71
TRD001169		1.13		0.008		0.03	5.59	7.4	400	1.63	0.13	0.01	<0.02	67.1	2.3	47
TRD001170		1.42		0.006		0.03	6.89	4.0	480	2.07	0.24	0.01	0.02	74.7	4.1	55
TRD001171		1.04		0.005		0.02	7.46	8.2	560	2.31	0.20	0.01	<0.02	41.6	3.4	62
TRD001172		1.22		0.005		0.03	4.86	12.4	350	1.31	0.19	0.01	<0.02	66.4	2.2	46
TRD001173		1.25		0.015		0.04	4.25	14.0	330	1.23	0.20	0.01	<0.02	53.6	2.4	41
TRD001174		1.04		0.010		0.02	4.42	11.5	290	1.30	0.09	0.01	<0.02	52.2	2.2	41
TRD001175		1.30		0.016		0.03	5.27	10.4	380	1.69	0.20	0.01	<0.02	50.0	3.9	48
TRD001176		1.75		0.020		0.03	5.67	10.8	420	1.90	0.21	0.01	<0.02	49.6	4.4	52
TRD001177		1.09		0.008		0.08	8.79	1.4	220	0.77	0.06	7.13	0.10	28.0	40.8	3
TRD001178		1.07		0.005		0.04	7.80	7.1	660	2.60	0.32	0.01	0.03	83.9	8.7	66
TRD001179		0.80		<0.005		0.03	8.63	4.3	730	2.91	0.41	0.01	0.05	130.0	13.0	72
TRD001180		0.83		<0.005		0.05	7.43	2.0	700	2.96	0.36	0.02	0.13	91.8	14.0	68
TRD001181		0.78		<0.005		0.05	6.27	4.2	510	2.32	0.14	0.01	0.04	132.5	9.1	54
TRD001182		0.90		<0.005		0.04	6.40	5.7	540	2.18	0.10	0.01	0.03	117.0	6.3	55
TRD001183		0.87		0.016		0.03	4.48	9.9	300	1.58	0.19	0.01	<0.02	117.0	4.0	42
TRD001184		0.64		0.840		0.12	3.98	9.7	280	1.40	0.38	0.01	<0.02	75.3	2.8	42
TRD001185		1.05		0.495		0.03	4.25	11.3	330	2.07	0.48	0.01	<0.02	68.5	3.4	47
TRD001186		0.95		0.013		0.02	3.90	9.4	270	1.36	0.08	0.01	<0.02	57.5	2.4	42
TRD001187		1.04		0.006		0.02	4.44	8.3	330	1.49	0.10	0.01	<0.02	68.5	3.5	42
TRD001188		1.21		<0.005		0.03	5.13	6.6	430	1.69	0.12	0.01	0.02	71.9	7.2	47
TRD001189		1.69		0.043		0.02	5.79	7.8	510	1.95	0.21	0.01	0.03	84.1	7.3	51
TRD001190		0.95		0.016		0.03	5.70	9.9	470	2.16	0.20	0.01	0.02	73.5	6.6	52
TRD001191		1.53		0.664		0.04	4.81	9.5	480	1.96	0.72	0.01	0.02	65.3	4.7	48
TRD001192		1.41		0.033		0.03	3.80	8.8	340	1.47	0.10	0.01	<0.02	66.7	2.5	37
TRD001193		1.02		0.085		0.02	7.61	6.3	790	2.86	0.36	0.01	<0.02	58.2	6.9	68
TRD001194		1.26		0.169		0.02	7.94	2.0	810	2.74	0.39	0.01	<0.02	72.4	8.9	67
TRD001195		1.39		0.007		0.03	7.75	9.5	740	2.56	0.51	0.01	0.04	103.0	21.2	70
TRD001196		1.00		0.006		0.04	8.10	4.0	820	2.73	0.41	0.01	0.07	94.9	29.4	69
TRD001197		1.43		<0.005		0.03	8.10	1.9	820	2.80	0.38	0.01	0.05	93.7	19.4	69
TRD001198		2.47		0.010		0.04	7.67	9.4	750	2.67	0.51	0.01	0.04	96.9	29.9	67
TRD001199		1.39		<0.005		0.02	8.17	2.7	850	3.11	0.36	<0.01	0.04	96.6	20.1	69
TRD001200		1.40	99.3	0.008		0.06	6.59	5.2	580	2.41	0.24	0.01	0.03	93.9	15.2	58



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**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001161		6.27	44.4	3.26	19.35	0.11	3.8	0.075	2.30	46.7	29.8	0.29	1615	0.37	0.08	15.2
TRD001162		7.66	35.7	3.42	22.5	0.11	3.6	0.082	3.10	38.0	20.9	0.40	527	0.32	0.11	17.4
TRD001163		7.71	38.4	3.42	23.2	0.24	3.7	0.073	3.14	100.5	23.1	0.47	730	0.29	0.11	17.4
TRD001164		7.33	35.4	3.34	22.6	0.19	3.5	0.070	3.13	79.8	24.1	0.56	599	0.35	0.11	16.2
TRD001165		5.99	31.6	2.88	22.8	0.24	3.6	0.073	3.00	118.5	23.4	0.53	713	0.30	0.12	16.6
TRD001166		5.97	33.6	2.73	23.2	0.36	3.5	0.075	2.96	161.0	22.8	0.41	399	0.25	0.11	16.0
TRD001167		4.54	39.1	3.30	23.2	0.14	3.4	0.078	3.02	58.5	20.4	0.27	408	0.24	0.12	16.4
TRD001168		4.04	53.3	3.28	21.6	0.12	3.7	0.076	2.79	38.9	12.8	0.25	154	0.33	0.11	15.4
TRD001169		3.99	19.9	1.65	14.00	0.07	3.3	0.057	1.69	32.3	7.6	0.18	98	0.35	0.06	12.2
TRD001170		3.76	27.1	1.91	16.85	0.10	3.6	0.057	1.98	38.2	9.2	0.20	135	0.39	0.08	13.6
TRD001171		3.60	27.3	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
TRD001172		2.95	12.2	1.76	12.15	0.07	3.7	0.038	1.41	32.2	6.7	0.15	85	0.74	0.05	11.0
TRD001173		2.57	12.0	1.87	10.50	0.06	4.0	0.034	1.25	25.4	5.6	0.13	109	1.12	0.05	10.4
TRD001174		2.89	8.7	1.50	10.45	0.07	4.5	0.027	1.05	26.4	4.9	0.12	123	0.71	0.04	10.9
TRD001175		3.54	21.6	2.68	13.20	0.07	4.3	0.049	1.44	24.9	8.3	0.17	125	0.54	0.05	11.8
TRD001176		3.79	24.7	2.91	14.50	0.07	4.3	0.046	1.56	25.5	9.3	0.18	130	0.60	0.06	12.8
TRD001177		1.39	152.5	7.38	18.00	0.08	2.6	0.048	0.81	13.3	10.9	2.58	1315	0.43	1.58	5.0
TRD001178		6.49	32.0	3.10	19.85	0.12	3.9	0.067	2.80	42.4	17.5	0.54	229	0.42	0.10	15.2
TRD001179		7.30	32.5	3.39	22.8	0.17	3.9	0.072	3.14	68.8	25.7	0.90	353	0.39	0.12	16.6
TRD001180		6.75	32.6	3.35	22.7	0.19	3.7	0.080	3.07	50.4	30.4	1.01	332	0.32	0.12	16.4
TRD001181		4.93	18.8	2.26	15.70	0.18	3.6	0.059	2.07	88.5	23.0	0.62	258	0.36	0.08	13.0
TRD001182		3.92	13.2	2.40	15.30	0.15	3.7	0.054	2.18	57.5	13.6	0.32	129	0.46	0.08	13.2
TRD001183		3.06	11.2	1.79	10.95	0.09	3.2	0.047	1.21	35.7	8.4	0.19	113	0.64	0.04	10.4
TRD001184		2.73	9.1	1.60	9.90	0.08	3.7	0.030	1.10	31.9	6.6	0.15	99	0.68	0.04	10.0
TRD001185		3.06	11.2	3.07	10.35	0.07	3.1	0.035	1.31	32.5	7.1	0.18	84	0.74	0.05	9.5
TRD001186		2.84	7.8	1.66	9.32	0.06	3.9	0.037	1.13	26.9	5.4	0.13	62	0.85	0.04	9.9
TRD001187		3.15	9.3	1.68	10.95	0.08	3.9	0.027	1.37	30.2	6.7	0.15	65	0.85	0.05	10.8
TRD001188		3.19	13.8	1.74	12.65	0.09	3.8	0.045	1.67	36.2	8.5	0.20	87	1.76	0.06	11.8
TRD001189		3.91	17.0	2.18	14.25	0.10	3.7	0.044	1.98	41.2	11.8	0.32	152	2.56	0.07	12.8
TRD001190		3.75	13.6	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
TRD001191		3.29	11.0	2.23	12.20	0.09	3.5	0.042	1.50	32.0	7.9	0.17	113	0.89	0.05	10.7
TRD001192		2.84	7.5	1.42	9.14	0.06	3.3	0.028	0.90	27.9	5.7	0.11	77	0.91	0.03	8.9
TRD001193		7.19	27.8	3.34	19.05	0.08	3.8	0.059	2.55	31.0	16.4	0.37	143	0.51	0.09	14.8
TRD001194		10.20	25.1	3.40	19.80	0.10	3.5	0.068	3.26	35.2	22.3	0.71	274	0.42	0.11	15.4
TRD001195		8.49	34.9	3.27	19.55	0.13	3.6	0.066	2.86	53.4	25.7	0.88	467	0.74	0.10	15.2
TRD001196		9.70	40.6	3.50	20.6	0.12	3.6	0.082	3.30	45.5	32.3	1.24	639	0.52	0.12	15.6
TRD001197		10.20	29.8	3.85	19.75	0.12	3.2	0.069	3.33	46.0	33.2	1.29	594	0.39	0.12	15.0
TRD001198		7.19	39.2	3.12	18.85	0.13	3.4	0.067	2.95	48.3	26.3	0.93	430	0.67	0.11	14.8
TRD001199		9.12	26.1	3.76	20.4	0.14	3.4	0.081	3.43	45.8	33.4	1.25	338	0.35	0.12	15.4
TRD001200		6.39	34.2	2.68	16.40	0.12	3.2	0.066	2.27	45.3	21.8	0.56	359	0.68	0.09	13.2



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**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001161		40.3	150	24.4	135.5	<0.002	0.01	0.60	14.2	<1	3.6	48.3	1.18	0.05	18.90	0.435
TRD001162		27.8	130	17.5	159.5	<0.002	0.01	0.53	15.0	<1	4.6	47.5	1.26	0.05	16.00	0.463
TRD001163		33.2	130	26.9	173.0	<0.002	0.01	0.66	16.9	<1	4.5	46.7	1.30	0.05	21.2	0.502
TRD001164		31.4	130	20.8	160.0	<0.002	0.01	0.57	15.6	<1	4.4	48.2	1.26	0.05	19.55	0.466
TRD001165		26.9	160	22.2	152.5	0.002	0.01	0.53	16.6	<1	4.7	63.8	1.25	0.05	20.9	0.479
TRD001166		25.1	130	23.3	147.5	<0.002	0.01	0.53	16.6	<1	4.3	56.2	1.26	0.05	19.55	0.469
TRD001167		24.5	150	17.8	145.0	<0.002	0.01	0.60	17.4	<1	4.5	72.5	1.27	0.05	20.4	0.467
TRD001168		17.5	150	14.8	132.0	<0.002	0.01	0.56	16.5	1	4.2	65.6	1.20	<0.05	19.80	0.454
TRD001169		11.0	110	9.3	106.0	<0.002	0.01	0.58	9.7	<1	2.8	37.5	0.91	<0.05	13.35	0.350
TRD001170		14.7	130	12.1	106.0	<0.002	0.01	0.56	11.3	<1	3.4	46.5	1.03	<0.05	15.60	0.395
TRD001171		13.6	150	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
TRD001172		11.2	110	8.3	78.3	<0.002	0.01	0.70	8.5	<1	2.7	28.7	0.86	<0.05	12.40	0.322
TRD001173		13.0	110	8.3	70.7	<0.002	0.01	0.83	7.3	<1	2.5	22.4	0.81	<0.05	11.95	0.303
TRD001174		8.8	140	6.8	66.9	<0.002	0.01	0.58	6.9	<1	2.4	40.0	0.83	<0.05	12.60	0.325
TRD001175		15.0	150	9.2	84.1	<0.002	0.01	0.78	8.9	<1	2.7	41.4	0.94	<0.05	13.30	0.352
TRD001176		15.6	150	11.4	92.8	<0.002	0.01	0.74	10.1	<1	2.9	45.2	0.99	0.06	15.25	0.368
TRD001177		42.5	440	8.9	36.6	<0.002	0.04	0.14	44.3	1	1.1	161.0	0.32	<0.05	3.46	0.417
TRD001178		23.4	140	12.6	151.0	<0.002	0.01	0.61	13.5	<1	3.9	59.5	1.16	0.05	18.60	0.438
TRD001179		31.4	140	13.6	169.5	<0.002	0.02	0.67	16.8	<1	4.5	67.6	1.28	0.06	20.5	0.474
TRD001180		33.0	130	12.2	122.5	<0.002	0.01	0.48	17.1	<1	4.5	65.2	1.26	0.05	13.40	0.459
TRD001181		25.7	160	12.2	105.0	<0.002	0.01	0.50	10.6	<1	3.2	66.0	0.98	<0.05	16.50	0.371
TRD001182		20.0	120	9.4	96.1	<0.002	0.01	0.44	10.3	<1	3.1	42.7	1.00	<0.05	15.25	0.378
TRD001183		14.2	130	7.0	73.7	<0.002	0.01	0.61	7.5	<1	2.3	41.6	0.76	0.08	11.50	0.299
TRD001184		11.0	140	6.1	68.0	<0.002	0.01	0.62	7.1	<1	2.0	33.8	0.74	0.17	11.60	0.292
TRD001185		15.3	270	6.8	72.2	<0.002	0.01	0.64	7.9	<1	2.3	26.4	0.69	0.24	11.10	0.291
TRD001186		11.3	120	5.4	71.3	<0.002	0.01	0.68	6.7	<1	2.0	24.1	0.76	<0.05	11.50	0.296
TRD001187		15.2	120	6.6	78.8	<0.002	0.01	0.55	7.7	<1	2.4	25.3	0.82	<0.05	12.55	0.318
TRD001188		16.6	120	8.1	81.3	<0.002	0.01	0.66	8.4	<1	2.6	28.9	0.87	<0.05	13.65	0.340
TRD001189		19.2	130	8.9	98.4	<0.002	0.01	1.05	9.7	<1	3.0	39.9	0.96	<0.05	15.15	0.371
TRD001190		24.0	190	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
TRD001191		19.4	180	7.6	80.0	<0.002	0.01	0.67	8.3	<1	2.4	38.5	0.80	0.32	12.15	0.311
TRD001192		13.0	210	7.5	58.3	<0.002	0.01	0.56	5.4	<1	2.0	49.0	0.67	<0.05	10.70	0.268
TRD001193		22.3	210	12.0	136.0	<0.002	0.01	0.56	13.0	<1	3.7	51.0	1.08	0.09	18.70	0.424
TRD001194		28.0	140	11.4	175.0	<0.002	0.01	0.48	14.0	<1	4.1	46.4	1.13	0.06	18.70	0.429
TRD001195		35.6	150	15.5	160.0	<0.002	0.09	0.95	13.3	1	3.9	51.2	1.13	0.06	19.05	0.423
TRD001196		78.4	130	15.6	177.5	<0.002	0.06	0.61	13.9	<1	4.2	46.1	1.15	<0.05	18.30	0.432
TRD001197		46.8	120	13.8	188.0	<0.002	0.04	0.37	13.6	<1	3.9	50.5	1.09	0.05	18.10	0.426
TRD001198		79.4	140	15.4	152.5	0.002	0.08	0.77	12.8	1	3.9	55.3	1.09	<0.05	18.45	0.418
TRD001199		66.0	120	10.7	179.5	<0.002	0.06	0.49	14.4	<1	4.1	50.3	1.13	<0.05	19.35	0.435
TRD001200		32.2	150	13.2	122.5	<0.002	0.02	0.53	11.0	<1	3.3	46.7	0.95	<0.05	14.90	0.372



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001161		0.84	3.5	87	3.4	24.1	111	140.5
TRD001162		0.69	3.0	99	3.3	24.6	124	135.0
TRD001163		0.65	3.2	105	3.5	37.7	158	140.5
TRD001164		0.69	2.9	100	3.5	32.7	140	128.5
TRD001165		0.56	3.0	100	3.8	47.7	116	135.0
TRD001166		0.56	2.8	102	3.9	44.8	112	128.0
TRD001167		0.56	3.0	103	4.7	25.2	96	127.0
TRD001168		0.47	3.6	95	5.4	22.4	87	136.0
TRD001169		0.38	2.5	60	5.9	18.0	36	125.0
TRD001170		0.39	3.0	75	4.6	17.2	63	139.0
TRD001171		0.39	3.1	81	6.0	15.4	57	142.5
TRD001172		0.30	2.4	52	6.1	15.8	38	137.5
TRD001173		0.25	2.5	44	4.7	15.2	53	144.0
TRD001174		0.26	2.8	45	4.0	16.8	44	171.5
TRD001175		0.31	3.1	58	11.0	16.8	59	156.5
TRD001176		0.32	3.4	61	11.8	16.8	63	160.5
TRD001177		0.20	0.9	232	0.5	23.6	91	108.0
TRD001178		0.65	3.0	86	4.8	25.5	103	143.0
TRD001179		0.73	3.0	96	4.4	33.3	136	144.0
TRD001180		0.74	2.7	99	3.5	29.4	141	141.5
TRD001181		0.45	2.9	70	3.3	40.7	84	126.0
TRD001182		0.37	2.8	70	3.8	29.7	84	129.0
TRD001183		0.29	2.5	48	5.2	20.0	55	114.5
TRD001184		0.28	2.5	45	5.1	20.0	42	135.0
TRD001185		0.27	2.7	49	5.9	21.0	57	112.5
TRD001186		0.29	2.4	43	8.3	16.6	39	138.5
TRD001187		0.31	2.7	48	8.6	17.2	49	136.5
TRD001188		0.34	2.9	59	4.4	19.2	89	137.0
TRD001189		0.39	2.9	70	4.7	21.3	94	131.0
TRD001190		0.37	3.4	65	7.4	23.6	76	125.5
TRD001191		0.32	2.8	53	9.3	18.8	59	123.0
TRD001192		0.24	2.6	39	8.8	17.9	38	114.5
TRD001193		0.53	3.4	87	9.4	22.7	84	139.5
TRD001194		0.75	2.8	88	5.7	22.5	109	123.0
TRD001195		1.18	3.5	99	5.5	27.4	126	130.5
TRD001196		1.18	3.1	96	4.0	27.9	198	124.5
TRD001197		1.01	2.6	92	3.9	26.9	152	115.5
TRD001198		0.93	3.5	94	4.9	27.3	158	119.5
TRD001199		0.99	2.7	94	5.1	29.5	142	120.0
TRD001200		0.65	2.8	74	6.3	26.3	92	114.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001201		1.58		0.006		0.06	6.19	5.6	570	2.14	0.19	0.01	0.03	78.8	13.9	57
TRD001202		2.10		0.007		0.06	7.62	1.0	210	0.75	0.04	6.81	0.10	23.0	40.3	3
TRD001203		1.71		0.151		0.08	4.33	15.3	330	2.12	0.27	0.02	0.02	93.8	17.0	43
TRD001204		1.57		0.015		0.06	4.36	9.3	370	1.73	0.14	0.01	0.02	79.2	8.6	44
TRD001205		2.12		0.014		0.06	4.35	6.1	410	1.60	0.17	0.01	0.02	74.9	14.0	46
TRD001206		2.61		0.014		0.05	4.42	25.7	440	1.69	0.33	0.01	<0.02	84.2	23.2	47
TRD001207		1.78		0.007		0.04	4.14	9.2	390	1.47	0.11	0.01	<0.02	85.2	16.2	39
TRD001208		2.13		<0.005		0.04	4.03	5.7	360	1.47	0.06	0.01	<0.02	71.0	11.4	40
TRD001209		3.07		<0.005		0.03	4.03	5.5	340	1.40	0.07	0.01	<0.02	73.6	11.6	39
TRD001210		3.42		<0.005		0.03	3.73	5.4	280	1.40	0.05	0.01	<0.02	69.0	7.0	43
TRD001211		2.84		0.023		0.04	3.94	8.9	340	1.27	0.12	0.01	<0.02	55.5	7.1	44
TRD001212		3.79		0.039		0.04	5.02	22.2	430	1.70	0.29	0.01	<0.02	78.7	11.8	54
TRD001213		3.21		0.268		0.12	6.71	15.6	670	2.47	0.31	0.01	<0.02	63.7	14.3	62
TRD001214		2.29		0.086		0.06	6.47	9.7	630	2.37	0.45	0.01	<0.02	81.2	11.9	61
TRD001215		3.87		0.031		0.07	5.15	7.0	480	1.90	0.36	0.01	0.02	82.4	10.8	48
TRD001216		2.89		0.366		0.08	4.62	24.3	340	2.00	0.22	0.01	<0.02	82.3	15.0	46
TRD001217		3.23		1.560		0.31	4.11	39.8	300	1.56	1.10	0.01	0.02	69.2	7.4	42
TRD001218		2.09		0.127		0.08	4.13	17.2	270	1.60	0.42	0.01	<0.02	72.6	10.7	40
TRD001219		3.00		0.236		0.09	6.62	18.6	620	2.69	0.74	0.01	0.03	90.5	14.3	60
TRD001220		1.48		0.048		0.27	7.28	3.5	710	2.79	0.46	0.01	0.04	60.8	8.0	69
TRD001221		1.95		0.023		0.06	7.69	3.1	760	3.06	0.44	0.01	0.04	82.6	8.0	68
TRD001222		1.87		0.006		0.03	6.31	2.4	580	2.28	0.21	0.01	0.04	108.0	7.5	55
TRD001223		3.25		0.025		0.05	7.46	2.0	720	2.86	0.27	0.01	0.03	73.5	7.3	65
TRD001224		1.65		0.005		0.07	6.07	3.8	570	2.26	0.15	0.01	0.03	78.8	8.9	56
TRD001225		1.84		0.006		0.06	4.66	4.1	410	1.62	0.08	0.01	<0.02	63.9	6.5	46
TRD001226		2.00		<0.005		0.05	4.70	4.1	460	1.48	0.09	0.01	<0.02	58.8	6.5	45
TRD001227		1.93		0.011		0.06	3.93	5.2	350	1.41	0.08	0.01	<0.02	57.7	6.5	40
TRD001228		2.42		0.038		0.09	4.66	11.0	380	1.76	0.19	0.01	0.02	73.0	12.4	46
TRD001229		1.74		0.024		0.09	5.34	13.0	480	1.94	0.21	0.01	<0.02	75.9	12.2	49
TRD001230		1.78		0.008		0.06	8.35	1.2	210	0.79	0.04	6.84	0.09	27.4	42.6	4
TRD001231		1.38		0.319		0.12	4.68	11.9	390	1.68	0.25	0.02	<0.02	70.2	9.8	47
TRD001232		0.12		0.295		0.06	7.43	7.0	400	1.80	0.50	0.08	0.02	52.6	9.0	82
TRD001233		0.53		0.054		0.03	8.05	3.2	400	2.14	0.47	0.04	<0.02	40.5	5.2	85
TRD001234		0.82		0.009		0.01	8.95	1.3	470	2.39	0.25	0.01	<0.02	56.8	5.0	78
TRD001235		0.80		0.015		0.03	8.73	1.7	510	2.22	0.27	0.01	<0.02	51.8	4.5	80
TRD001236		0.70		0.013		0.03	8.77	3.8	540	2.16	0.38	0.01	<0.02	65.7	3.1	88
TRD001237		0.84		0.015		0.03	8.61	2.7	560	2.38	0.44	<0.01	<0.02	64.8	3.3	86
TRD001238		1.21		0.012		0.02	8.82	2.2	520	2.16	0.53	<0.01	<0.02	74.2	3.3	89
TRD001239		0.83		0.026		0.02	8.63	2.0	480	2.31	0.40	<0.01	<0.02	82.7	3.3	83
TRD001240		0.98	98.9	0.014		0.02	8.99	1.3	480	2.39	0.40	<0.01	<0.02	136.0	7.0	78



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001201		6.20	34.9	2.47	14.80	0.12	3.2	0.050	2.10	42.7	20.3	0.57	302	0.69	0.08	12.6
TRD001202		1.11	146.0	7.02	16.50	0.09	2.4	0.066	0.73	10.7	10.6	2.38	1275	0.45	1.52	5.0
TRD001203		4.68	15.8	2.62	11.05	0.23	3.2	0.025	1.21	89.4	16.4	0.23	448	0.74	0.04	10.1
TRD001204		5.07	13.2	1.89	10.20	0.29	3.2	0.039	1.32	124.5	19.2	0.29	257	0.82	0.04	9.9
TRD001205		4.59	13.9	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
TRD001206		4.03	13.0	2.13	10.70	0.10	3.5	0.037	1.54	42.8	13.0	0.25	271	1.12	0.05	10.4
TRD001207		5.60	8.9	1.60	9.94	0.13	3.1	0.024	1.28	52.6	14.0	0.30	249	1.00	0.04	9.3
TRD001208		6.00	8.5	1.65	9.34	0.11	3.8	0.027	1.20	43.4	14.1	0.27	185	0.90	0.04	9.2
TRD001209		5.29	8.4	1.68	9.41	0.09	3.6	0.027	1.30	36.7	11.5	0.24	153	1.08	0.04	9.6
TRD001210		4.09	9.2	1.41	8.71	0.09	4.6	0.024	0.89	36.4	12.4	0.20	156	1.29	0.03	9.8
TRD001211		4.02	10.8	1.77	9.35	0.06	3.8	0.034	1.18	28.3	12.2	0.21	180	1.20	0.04	9.8
TRD001212		4.08	15.8	2.22	12.25	0.09	3.8	0.044	1.64	36.7	13.3	0.23	295	0.94	0.06	11.8
TRD001213		7.93	24.0	3.02	16.80	0.09	3.6	0.059	2.65	33.4	22.7	0.59	253	0.86	0.08	14.2
TRD001214		7.50	21.1	2.85	15.85	0.12	3.3	0.060	2.55	49.8	23.2	0.64	242	0.74	0.09	13.0
TRD001215		7.13	16.1	2.10	12.00	0.09	2.5	0.041	1.81	50.6	22.7	0.53	259	0.88	0.08	9.6
TRD001216		7.56	13.8	2.05	10.75	0.07	3.5	0.038	1.32	37.0	26.3	0.32	277	0.90	0.05	10.3
TRD001217		5.65	10.8	1.47	9.75	0.07	3.5	0.025	1.24	35.0	14.9	0.22	137	0.89	0.05	9.7
TRD001218		6.31	13.4	1.58	9.78	0.07	3.6	0.033	1.21	39.8	15.6	0.24	173	0.63	0.04	9.4
TRD001219		8.15	28.6	2.46	16.35	0.10	3.7	0.065	2.65	49.6	24.6	0.49	199	0.71	0.10	13.2
TRD001220		7.25	23.8	3.18	18.40	0.12	2.5	0.067	3.03	39.8	26.1	0.71	167	0.39	0.11	12.0
TRD001221		6.97	27.8	3.02	19.25	0.13	3.4	0.072	2.96	54.9	24.3	0.61	138	0.34	0.12	14.5
TRD001222		6.41	24.8	2.41	15.25	0.11	3.1	0.042	2.11	53.3	22.0	0.38	143	0.55	0.08	12.2
TRD001223		5.44	32.2	2.87	17.45	0.08	3.5	0.058	2.78	43.2	17.6	0.37	110	0.46	0.11	14.4
TRD001224		5.45	19.7	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
TRD001225		5.04	15.4	1.72	10.45	0.08	2.8	0.036	1.39	36.0	19.2	0.27	123	0.48	0.05	9.5
TRD001226		5.08	16.2	1.66	10.65	0.07	3.0	0.030	1.49	34.3	20.0	0.29	128	0.71	0.06	9.9
TRD001227		4.06	15.5	1.65	9.15	0.05	2.7	0.031	1.14	30.5	14.2	0.21	143	0.88	0.05	8.9
TRD001228		4.03	13.4	2.08	11.25	0.07	3.0	0.037	1.30	35.5	13.6	0.18	220	0.93	0.05	9.9
TRD001229		4.13	14.2	2.11	12.60	0.07	3.4	0.038	1.64	36.7	14.2	0.21	196	0.80	0.06	10.8
TRD001230		1.48	149.0	7.12	16.75	0.07	2.6	0.058	0.77	13.4	11.2	2.49	1260	0.48	1.51	5.0
TRD001231		4.17	14.7	2.07	11.20	0.08	3.0	0.038	1.45	33.9	13.3	0.23	195	0.96	0.07	10.0
TRD001232		5.34	18.9	3.98	17.05	0.08	2.9	0.057	1.94	25.4	13.6	0.24	437	0.69	0.08	12.7
TRD001233		5.76	22.3	4.28	19.75	0.09	3.4	0.082	2.37	18.6	13.8	0.26	293	0.72	0.09	14.6
TRD001234		5.74	22.6	4.08	20.9	0.08	3.3	0.067	2.62	26.9	12.8	0.31	317	0.24	0.09	15.2
TRD001235		6.33	23.4	4.04	20.8	0.07	3.3	0.084	2.72	23.6	12.0	0.28	296	0.27	0.10	15.0
TRD001236		7.04	21.2	3.85	21.1	0.10	3.5	0.075	2.73	30.4	11.6	0.26	202	0.26	0.09	15.2
TRD001237		5.68	28.4	4.02	21.0	0.09	3.1	0.075	2.87	26.8	11.6	0.26	152	0.21	0.10	14.8
TRD001238		5.85	24.2	4.04	21.6	0.08	3.4	0.079	2.89	29.5	11.4	0.27	229	0.13	0.10	15.8
TRD001239		5.82	17.8	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
TRD001240		5.71	16.2	4.16	21.1	0.08	3.4	0.081	2.80	33.0	13.2	0.26	423	0.20	0.10	15.8



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001201		29.2	160	12.8	115.5	<0.002	0.02	0.50	9.8	<1	3.0	47.7	0.93	<0.05	14.35	0.359
TRD001202		40.1	420	5.9	18.3	<0.002	0.04	0.14	36.7	1	1.0	153.0	0.30	<0.05	2.87	0.391
TRD001203		32.2	150	9.4	83.6	<0.002	0.01	0.85	7.2	<1	2.3	40.6	0.76	0.08	12.00	0.288
TRD001204		26.0	150	9.8	82.6	<0.002	0.01	0.66	6.7	<1	2.2	41.5	0.74	<0.05	11.60	0.283
TRD001205		22.0	150	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
TRD001206		19.2	220	10.8	82.5	<0.002	0.01	0.73	7.6	<1	2.6	30.6	0.75	0.09	11.90	0.301
TRD001207		20.5	210	8.2	83.5	<0.002	0.01	0.52	6.6	<1	2.1	45.4	0.72	<0.05	10.90	0.275
TRD001208		20.2	180	7.5	77.2	<0.002	0.01	0.54	6.3	<1	1.8	41.4	0.71	<0.05	11.55	0.283
TRD001209		18.9	120	6.0	82.1	<0.002	0.01	0.69	6.2	<1	2.1	23.2	0.72	<0.05	11.05	0.286
TRD001210		17.7	190	7.3	59.7	<0.002	0.01	0.52	5.8	<1	1.7	61.7	0.75	<0.05	12.10	0.294
TRD001211		18.0	150	6.3	70.8	<0.002	0.01	0.69	6.4	<1	2.2	41.6	0.70	<0.05	11.50	0.295
TRD001212		19.0	140	8.9	87.7	<0.002	0.01	0.87	8.4	<1	2.8	37.8	0.86	0.08	13.45	0.327
TRD001213		24.2	160	9.9	151.5	<0.002	0.01	0.67	11.4	<1	3.7	54.3	1.01	0.07	16.05	0.380
TRD001214		24.5	140	13.1	134.5	<0.002	0.01	0.55	10.5	<1	3.4	43.9	0.98	0.06	15.40	0.362
TRD001215		25.5	170	13.4	108.5	<0.002	0.02	0.52	7.4	<1	2.7	52.7	0.82	<0.05	11.90	0.294
TRD001216		28.5	200	8.9	99.0	<0.002	0.02	0.73	7.2	<1	2.3	46.4	0.84	<0.05	12.15	0.314
TRD001217		16.6	130	9.0	87.2	<0.002	0.02	0.76	6.1	1	2.6	27.1	0.81	0.20	11.95	0.279
TRD001218		17.0	120	10.0	101.0	<0.002	0.02	0.65	5.9	<1	3.0	25.6	0.87	0.05	12.00	0.276
TRD001219		26.8	120	12.0	149.5	<0.002	0.01	0.83	10.4	<1	4.5	39.3	1.14	0.07	16.50	0.374
TRD001220		25.8	110	12.0	126.5	<0.002	0.01	0.48	12.0	<1	3.9	42.9	0.92	<0.05	12.85	0.317
TRD001221		27.1	120	12.4	142.5	<0.002	0.01	0.40	12.4	<1	4.2	49.5	1.19	0.05	17.35	0.418
TRD001222		23.4	140	14.0	118.5	<0.002	0.01	0.35	9.6	1	3.2	45.9	1.00	<0.05	15.30	0.365
TRD001223		19.7	110	12.0	131.5	<0.002	0.01	0.73	11.3	<1	3.8	38.6	1.14	<0.05	16.95	0.410
TRD001224		19.1	120	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
TRD001225		18.6	130	9.7	83.0	<0.002	0.01	0.42	6.7	<1	2.2	28.7	0.76	<0.05	11.75	0.293
TRD001226		20.1	160	8.5	83.4	<0.002	0.01	0.42	6.9	<1	2.4	34.3	0.80	<0.05	11.95	0.299
TRD001227		16.4	180	10.7	68.4	<0.002	0.01	0.47	6.2	<1	2.1	33.7	0.71	<0.05	10.55	0.254
TRD001228		16.0	160	21.2	72.5	<0.002	0.02	0.55	7.2	<1	2.2	35.3	0.83	<0.05	12.15	0.308
TRD001229		15.9	150	21.1	83.7	<0.002	0.02	0.61	8.1	<1	2.5	36.5	0.90	<0.05	13.55	0.335
TRD001230		41.8	420	5.8	35.6	<0.002	0.05	0.15	40.5	<1	1.0	152.0	0.33	<0.05	3.65	0.400
TRD001231		17.0	140	17.7	84.2	<0.002	0.02	0.59	7.3	<1	2.4	30.2	0.80	<0.05	12.15	0.293
TRD001232		17.6	160	19.6	125.5	<0.002	0.03	0.96	10.6	1	3.4	33.7	1.01	0.08	21.0	0.372
TRD001233		16.4	120	22.5	135.0	<0.002	0.03	0.90	14.4	2	4.1	36.5	1.12	0.06	25.7	0.415
TRD001234		14.4	130	23.3	142.5	<0.002	0.02	0.81	14.5	1	4.2	50.9	1.18	0.05	23.5	0.446
TRD001235		13.8	110	20.9	142.5	<0.002	0.03	0.87	13.6	1	4.3	39.7	1.20	<0.05	22.2	0.449
TRD001236		13.0	80	21.5	164.0	<0.002	0.03	1.10	14.6	1	4.5	27.9	1.22	0.05	24.7	0.443
TRD001237		14.0	80	19.6	162.0	<0.002	0.02	1.12	15.0	1	4.3	31.2	1.15	0.05	22.5	0.431
TRD001238		13.8	90	19.5	167.0	<0.002	0.02	0.99	16.3	<1	4.6	28.5	1.24	<0.05	24.6	0.449
TRD001239		13.7	100	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
TRD001240		17.6	110	18.4	154.5	<0.002	0.03	0.94	16.8	<1	4.3	32.7	1.26	<0.05	21.6	0.475



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001201		0.60	2.8	69	7.0	26.4	82	114.5
TRD001202		0.19	0.9	231	0.7	21.1	88	97.2
TRD001203		0.82	2.6	47	14.6	37.2	67	115.0
TRD001204		0.47	2.4	46	6.1	45.0	84	112.5
TRD001205		0.59	2.6	46	5.1	27.9	87	131.0
TRD001206		0.41	2.8	49	6.4	24.0	61	126.5
TRD001207		0.45	2.4	43	4.7	29.8	65	111.5
TRD001208		0.45	2.4	41	4.6	28.2	63	133.5
TRD001209		0.45	2.5	41	6.5	23.1	53	150.0
TRD001210		0.36	2.6	40	6.0	22.0	67	162.5
TRD001211		0.34	2.6	43	7.3	23.3	58	142.5
TRD001212		0.44	2.8	55	6.5	20.6	64	136.0
TRD001213		0.69	2.8	75	7.8	21.6	99	132.0
TRD001214		0.64	2.8	72	5.9	27.8	115	115.5
TRD001215		0.53	2.1	54	4.7	27.6	109	101.5
TRD001216		0.61	2.9	47	13.2	26.4	68	140.0
TRD001217		0.45	2.3	43	9.4	25.9	39	135.5
TRD001218		0.52	3.0	42	10.4	30.0	37	144.0
TRD001219		0.71	3.7	75	9.4	28.7	71	151.5
TRD001220		0.66	2.5	87	4.3	22.1	110	97.6
TRD001221		0.62	2.7	87	5.9	28.9	107	131.5
TRD001222		0.55	2.9	71	6.9	28.2	92	123.5
TRD001223		0.50	2.7	85	6.4	23.7	98	135.5
TRD001224		0.48	2.7	68	6.7	22.3	76	128.0
TRD001225		0.35	2.3	49	5.4	23.0	86	112.5
TRD001226		0.34	2.2	49	4.3	23.2	96	114.5
TRD001227		0.31	2.4	41	4.8	22.4	68	108.5
TRD001228		0.42	2.9	51	6.3	18.8	64	120.0
TRD001229		0.41	3.0	58	6.6	21.0	67	127.5
TRD001230		0.18	1.0	228	0.4	23.6	87	115.0
TRD001231		0.44	2.6	51	9.5	19.2	63	117.5
TRD001232		0.54	2.4	79	10.0	12.3	40	118.0
TRD001233		0.57	2.9	93	7.4	10.9	40	131.5
TRD001234		0.55	3.0	102	3.3	13.9	44	131.0
TRD001235		0.60	2.9	103	4.0	12.1	47	131.0
TRD001236		0.63	3.1	102	3.8	18.4	47	136.0
TRD001237		0.64	3.4	101	3.2	13.1	52	126.0
TRD001238		0.62	3.6	104	3.2	14.4	54	136.0
TRD001239		0.59	3.7	104	3.3	13.2	36	134.5
TRD001240		0.61	3.4	106	3.1	16.8	38	136.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001241		0.87		0.015		0.02	8.12	1.3	440	2.45	0.35	<0.01	<0.02	130.5	10.2	75
TRD001242		1.09		0.019		0.01	8.29	1.2	460	2.41	0.25	<0.01	<0.02	103.5	5.9	79
TRD001243		1.12		0.015		0.02	8.79	1.8	480	2.62	0.27	<0.01	<0.02	273	19.2	76
TRD001244		1.01		0.010		0.02	8.90	1.5	490	2.40	0.33	<0.01	<0.02	227	19.2	73
TRD001245		1.01		0.024		0.02	8.40	1.9	530	2.58	0.36	<0.01	<0.02	128.0	33.1	75
TRD001246		0.85		0.017		0.02	8.47	1.9	510	2.38	0.33	<0.01	<0.02	182.0	37.3	72
TRD001247		1.14		0.054		0.03	8.35	1.2	510	2.48	0.37	<0.01	<0.02	141.0	51.1	74
TRD001248		1.33		0.014		0.02	8.33	1.0	500	2.43	0.19	0.01	<0.02	64.2	15.8	71
TRD001249		1.37		0.019		0.02	8.71	0.7	520	2.12	0.21	0.01	0.04	84.4	16.4	75
TRD001250		1.41		0.017		0.03	8.64	0.8	510	2.19	0.16	0.01	0.04	86.1	19.4	72
TRD001251		1.72		0.012		0.08	8.45	0.6	530	2.24	0.12	0.01	0.02	84.8	25.0	74
TRD001252		1.12		0.011		0.07	8.86	0.8	560	2.28	0.12	0.01	0.02	85.8	20.4	73
TRD001253		1.35		0.032		0.03	8.36	0.7	530	2.32	0.24	0.01	0.03	77.5	17.8	71
TRD001254		1.49		0.034		0.02	8.27	0.7	520	2.41	0.23	0.01	0.04	78.7	17.4	70
TRD001255		1.20		0.020		0.02	8.26	1.3	510	2.20	0.22	0.01	0.04	85.9	15.9	69
TRD001256		1.42		0.019		0.01	8.13	1.2	500	2.33	0.19	0.01	0.02	82.3	14.4	67
TRD001257		2.13		0.006		0.06	8.10	1.1	200	0.66	0.04	6.84	0.08	24.3	39.5	4
TRD001258		1.25		0.007		0.02	8.29	2.0	470	2.56	0.33	0.01	0.04	89.3	15.8	68
TRD001259		1.74		0.006		0.03	8.44	1.3	510	2.18	0.26	0.01	0.03	102.0	16.7	71
TRD001260		1.27		<0.005		0.02	8.38	1.1	510	2.39	0.30	0.03	0.08	118.5	20.3	67
TRD001261		1.13		<0.005		0.03	8.19	0.7	490	2.75	0.46	0.01	0.05	88.6	20.9	68
TRD001262		1.35		<0.005		0.03	8.32	0.6	570	2.23	0.23	0.01	0.03	94.0	17.4	68
TRD001263		1.36		<0.005		0.02	8.08	0.7	570	1.99	0.16	0.03	0.05	89.4	18.7	67
TRD001264		1.60		<0.005		0.04	8.27	0.9	500	2.80	0.36	0.02	0.21	99.8	17.7	69
TRD001265		1.41		<0.005		0.02	8.06	0.6	500	2.61	0.25	0.02	0.02	96.7	18.3	67
TRD001266		1.16		<0.005		0.04	8.02	0.7	500	2.64	0.74	0.03	0.10	88.4	17.5	66
TRD001267		1.19		<0.005		0.03	8.08	0.7	480	3.00	0.81	0.03	0.04	94.0	18.0	66
TRD001268		1.52		<0.005		0.03	8.25	0.8	490	2.65	0.40	0.02	0.03	89.6	16.4	68
TRD001269		1.18		<0.005		0.06	8.09	0.7	490	2.52	0.34	0.02	0.04	93.4	16.1	67
TRD001270		1.35		<0.005		0.03	8.34	0.8	510	2.45	0.34	0.01	0.04	95.5	16.3	69
TRD001271		1.45		0.007		0.04	8.26	0.8	490	2.96	0.51	0.02	0.02	98.3	16.7	69
TRD001272		1.08		0.007		0.03	8.17	0.7	620	2.68	0.50	0.01	0.03	89.3	17.5	69
TRD001273		1.20		0.018		0.04	9.03	0.6	720	3.36	0.58	0.02	0.03	101.0	18.7	75
TRD001274		1.14		0.009		0.03	8.45	0.6	600	3.04	0.49	0.02	0.04	96.0	18.1	71
TRD001275		1.18		0.005		0.03	8.25	0.6	560	2.58	0.47	0.02	0.03	82.7	18.9	68
TRD001276		1.36		<0.005		0.03	8.03	0.8	590	2.48	0.39	0.02	0.05	90.8	19.5	64
TRD001277		1.36		<0.005		0.03	7.74	1.2	610	3.16	0.48	0.02	0.06	40.1	18.0	76
TRD001278		1.27		<0.005		0.03	8.36	0.7	540	2.56	0.37	0.04	0.04	92.5	20.0	68
TRD001279		1.09		<0.005		0.03	8.07	1.3	500	2.62	0.33	0.03	0.03	89.5	24.9	66
TRD001280		1.58	98.0	<0.005		0.02	8.23	1.2	510	2.60	0.31	0.07	0.02	88.0	19.9	66



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001241		5.67	19.8	4.13	20.6	0.09	3.2	0.079	2.71	28.8	14.7	0.24	431	0.15	0.10	14.5
TRD001242		5.43	18.4	4.00	21.2	0.09	3.1	0.070	2.78	33.5	12.5	0.23	265	0.19	0.10	15.2
TRD001243		6.83	21.0	4.05	21.5	0.13	3.1	0.080	3.04	47.8	17.8	0.32	546	0.22	0.10	15.2
TRD001244		7.91	23.7	4.01	20.4	0.13	3.0	0.065	3.10	56.0	20.9	0.41	506	0.22	0.10	15.0
TRD001245		6.51	25.0	4.01	21.2	0.13	3.1	0.074	2.80	55.0	19.8	0.27	910	0.24	0.09	15.2
TRD001246		6.44	26.6	3.82	20.7	0.14	3.0	0.066	2.95	48.8	19.6	0.27	993	0.20	0.10	14.5
TRD001247		6.55	56.2	3.87	20.3	0.11	3.1	0.083	2.96	45.3	19.5	0.31	1405	0.20	0.10	14.8
TRD001248		8.94	56.9	3.89	21.0	0.11	3.2	0.078	3.07	54.1	28.7	0.53	653	0.17	0.11	14.8
TRD001249		9.89	40.0	4.03	21.0	0.14	3.1	0.072	3.28	74.2	21.4	0.85	724	0.13	0.16	15.2
TRD001250		8.35	16.0	4.44	21.9	0.15	3.2	0.074	3.22	73.9	25.3	1.23	848	0.13	0.22	14.9
TRD001251		8.47	55.9	4.11	22.5	0.13	3.4	0.065	3.11	45.6	29.5	1.02	1160	0.57	0.25	15.3
TRD001252		6.25	73.3	3.90	21.9	0.10	3.3	0.073	3.17	41.5	27.5	0.71	1115	1.37	0.17	15.6
TRD001253		7.80	19.5	4.39	20.7	0.11	3.1	0.061	3.16	49.2	27.7	1.16	835	0.36	0.24	15.0
TRD001254		9.04	9.8	4.49	21.0	0.12	3.0	0.073	3.31	41.5	27.9	1.15	706	0.34	0.29	14.4
TRD001255		9.47	15.4	4.15	20.3	0.13	3.4	0.076	3.20	51.9	26.9	1.08	723	0.15	0.27	15.6
TRD001256		9.29	18.2	3.94	19.40	0.11	3.2	0.075	3.10	50.4	26.9	1.05	715	0.10	0.26	14.9
TRD001257		1.18	142.0	7.15	16.30	0.09	2.7	0.051	0.76	11.2	10.3	2.47	1195	0.44	1.47	5.1
TRD001258		10.95	33.4	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
TRD001259		7.73	27.3	4.02	20.8	0.12	3.2	0.077	3.10	49.5	25.0	0.89	734	0.26	0.22	15.2
TRD001260		8.97	24.7	4.03	21.1	0.13	3.3	0.066	3.21	50.6	31.2	1.17	1060	0.34	0.30	15.2
TRD001261		11.20	25.9	4.39	20.3	0.11	3.2	0.086	3.10	44.3	31.8	1.25	1005	0.20	0.29	14.8
TRD001262		10.50	35.6	3.85	22.0	0.12	3.4	0.081	3.26	47.1	32.9	1.32	906	0.08	0.32	15.6
TRD001263		8.98	30.3	4.05	19.05	0.11	3.1	0.076	3.24	44.0	31.8	1.35	910	0.10	0.36	15.2
TRD001264		9.91	96.2	3.91	21.5	0.12	3.3	0.085	3.08	47.9	33.2	1.37	953	0.43	0.35	15.2
TRD001265		9.18	28.8	4.06	20.9	0.13	3.5	0.073	3.10	47.9	33.2	1.34	886	0.33	0.35	15.6
TRD001266		9.87	29.3	3.94	20.6	0.13	3.4	0.068	3.23	43.1	33.0	1.32	788	0.19	0.41	15.2
TRD001267		12.50	29.1	4.25	21.6	0.12	3.3	0.079	3.21	45.2	36.1	1.40	894	0.17	0.41	15.0
TRD001268		10.85	29.2	3.99	21.0	0.12	3.3	0.058	3.21	43.6	35.3	1.39	874	0.20	0.40	14.8
TRD001269		9.00	58.3	3.78	21.9	0.11	3.2	0.084	3.07	43.4	32.7	1.37	817	0.27	0.37	15.0
TRD001270		9.11	37.5	3.98	21.5	0.12	3.3	0.091	3.27	47.7	33.8	1.40	798	0.25	0.36	15.3
TRD001271		9.11	31.5	3.74	21.4	0.11	3.5	0.075	2.96	48.5	36.1	1.39	961	0.24	0.35	15.3
TRD001272		10.15	26.0	4.14	20.2	0.12	3.2	0.072	3.15	44.0	34.9	1.38	997	0.27	0.31	14.9
TRD001273		11.75	34.3	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
TRD001274		11.00	32.1	4.01	21.6	0.12	3.4	0.087	3.23	46.5	38.4	1.43	859	0.26	0.32	16.0
TRD001275		12.55	23.2	3.76	19.70	0.10	3.2	0.063	3.26	41.0	37.4	1.64	1005	0.21	0.35	15.2
TRD001276		16.30	28.9	3.70	20.6	0.12	3.4	0.073	3.14	46.1	40.0	1.76	1200	0.20	0.25	15.4
TRD001277		10.70	38.1	4.18	23.7	0.09	3.4	0.075	3.73	16.0	44.2	1.44	826	0.26	0.37	17.0
TRD001278		11.75	24.2	4.05	21.4	0.11	3.4	0.066	3.32	46.1	40.9	1.61	956	0.10	0.39	15.4
TRD001279		11.80	32.6	3.70	19.95	0.11	3.3	0.069	3.05	46.6	42.0	1.67	1115	0.24	0.38	15.6
TRD001280		9.68	32.2	3.95	19.70	0.12	3.3	0.087	3.21	44.3	39.4	1.54	864	0.43	0.45	16.0



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm								
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001241		18.1	90	17.2	147.0	<0.002	0.03	1.15	16.3	<1	4.1	25.5	1.20	0.05	19.75	0.436
TRD001242		14.8	90	15.8	155.0	<0.002	0.02	1.14	16.2	<1	4.5	27.0	1.18	0.06	20.1	0.438
TRD001243		21.7	90	16.0	172.5	<0.002	0.02	1.09	16.6	<1	4.5	27.6	1.21	0.06	20.2	0.449
TRD001244		24.2	80	13.2	181.0	<0.002	0.02	0.96	14.8	<1	4.3	27.6	1.22	0.07	19.50	0.446
TRD001245		25.7	110	16.6	165.0	<0.002	0.02	1.23	16.8	1	4.3	29.0	1.22	0.06	19.30	0.441
TRD001246		25.8	80	12.4	168.0	<0.002	0.02	1.18	14.6	<1	4.4	27.0	1.16	0.05	17.05	0.432
TRD001247		21.1	90	14.6	163.0	<0.002	0.02	1.04	15.7	<1	4.3	29.5	1.18	0.06	20.9	0.445
TRD001248		25.9	100	11.6	192.0	<0.002	0.02	0.84	14.0	<1	4.3	36.5	1.18	<0.05	19.50	0.434
TRD001249		35.8	100	13.0	174.0	<0.002	0.01	0.75	13.4	<1	4.2	36.2	1.19	0.05	17.95	0.453
TRD001250		49.3	90	16.4	173.5	<0.002	<0.01	0.69	14.5	<1	4.2	31.6	1.21	<0.05	19.50	0.438
TRD001251		50.4	90	44.3	138.5	<0.002	0.01	0.76	14.4	<1	4.1	29.2	1.30	<0.05	15.40	0.471
TRD001252		36.2	90	38.8	158.0	<0.002	0.01	0.90	15.2	<1	4.3	30.9	1.26	<0.05	19.95	0.463
TRD001253		45.6	90	13.8	173.0	<0.002	<0.01	0.67	14.2	1	4.1	30.3	1.19	0.06	18.70	0.428
TRD001254		38.7	100	10.3	168.5	<0.002	<0.01	0.61	13.4	<1	3.9	30.6	1.16	<0.05	16.35	0.429
TRD001255		41.8	80	10.6	192.5	<0.002	<0.01	0.69	13.6	<1	4.3	27.5	1.21	<0.05	17.75	0.424
TRD001256		39.6	70	10.2	186.0	<0.002	<0.01	0.68	13.6	<1	4.0	24.6	1.22	<0.05	17.70	0.421
TRD001257		39.6	400	5.2	24.3	<0.002	0.04	0.09	38.4	<1	0.9	145.5	0.36	<0.05	3.19	0.389
TRD001258		40.1	80	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
TRD001259		35.5	90	13.5	177.0	<0.002	0.01	0.88	14.2	<1	4.0	28.6	1.17	0.06	18.80	0.439
TRD001260		43.8	100	13.7	190.0	<0.002	<0.01	0.86	14.2	<1	3.9	29.3	1.21	0.05	18.70	0.441
TRD001261		42.2	180	14.8	196.0	<0.002	0.01	0.76	13.8	<1	3.7	40.8	1.16	<0.05	18.10	0.429
TRD001262		36.2	120	14.0	199.5	<0.002	<0.01	0.75	15.2	<1	4.1	43.6	1.21	<0.05	18.40	0.434
TRD001263		38.0	180	12.0	190.5	<0.002	0.01	0.70	13.4	<1	4.0	40.2	1.12	<0.05	17.40	0.424
TRD001264		38.7	190	16.0	184.0	<0.002	0.01	0.81	14.6	1	3.9	55.6	1.20	0.09	18.65	0.432
TRD001265		40.0	180	13.6	191.5	<0.002	<0.01	0.68	14.4	<1	4.0	56.2	1.20	0.09	17.95	0.425
TRD001266		38.9	270	13.7	188.5	<0.002	0.01	0.72	14.2	<1	4.1	40.6	1.17	<0.05	17.75	0.419
TRD001267		41.8	350	16.1	207	<0.002	<0.01	0.71	14.9	<1	4.0	36.2	1.19	<0.05	18.25	0.426
TRD001268		37.7	240	15.3	198.0	<0.002	<0.01	0.87	14.6	<1	4.1	30.4	1.20	<0.05	18.10	0.428
TRD001269		37.1	190	13.9	183.5	<0.002	<0.01	0.76	14.4	<1	3.9	33.5	1.17	0.06	17.80	0.426
TRD001270		38.2	170	13.0	196.0	<0.002	<0.01	0.79	14.7	<1	4.1	31.3	1.19	0.05	18.95	0.429
TRD001271		40.4	200	20.1	180.5	<0.002	<0.01	1.04	15.0	<1	3.7	35.7	1.22	0.06	18.35	0.431
TRD001272		40.6	170	16.8	196.0	<0.002	<0.01	0.78	14.0	<1	4.0	32.4	1.15	<0.05	17.70	0.422
TRD001273		43.1	160	22.3	215	<0.002	<0.01	1.13	15.7	<1	4.1	56.4	1.28	0.06	19.95	0.458
TRD001274		41.0	150	18.9	202	<0.002	0.01	1.01	14.8	<1	4.1	58.3	1.24	0.06	19.45	0.435
TRD001275		38.8	130	18.9	199.5	<0.002	0.01	0.96	13.6	<1	3.9	38.1	1.17	0.05	17.60	0.445
TRD001276		39.3	140	22.9	227	<0.002	0.01	1.02	14.0	<1	4.1	45.4	1.21	<0.05	18.10	0.429
TRD001277		42.6	130	18.4	128.5	<0.002	0.01	1.18	13.0	<1	5.0	26.2	1.31	0.05	8.84	0.481
TRD001278		39.1	210	17.4	210	<0.002	0.01	0.85	14.8	<1	4.2	35.0	1.25	<0.05	18.75	0.442
TRD001279		43.4	200	21.2	204	<0.002	0.01	1.06	13.6	<1	3.8	43.5	1.15	<0.05	18.50	0.428
TRD001280		38.3	320	15.6	186.5	<0.002	0.01	0.84	13.2	<1	4.1	32.9	1.21	0.09	17.30	0.425



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001241		0.62	3.2	98	2.9	13.8	43	126.5
TRD001242		0.60	3.1	101	3.0	16.1	40	127.0
TRD001243		0.73	3.0	103	3.2	20.4	49	125.5
TRD001244		0.86	2.9	100	3.0	23.8	70	125.0
TRD001245		0.82	3.2	103	3.6	23.5	50	127.5
TRD001246		0.86	3.0	99	4.2	23.4	46	121.5
TRD001247		0.87	4.0	105	3.0	23.9	45	129.0
TRD001248		0.85	3.4	99	2.9	30.5	64	128.5
TRD001249		0.90	2.8	105	3.0	45.5	102	108.5
TRD001250		0.84	2.6	99	3.2	51.1	123	108.0
TRD001251		0.85	3.2	102	3.2	31.8	115	111.5
TRD001252		0.77	3.7	103	3.6	23.6	82	116.0
TRD001253		0.82	2.5	100	3.2	31.0	109	106.5
TRD001254		0.90	2.4	100	3.1	20.9	96	101.5
TRD001255		0.92	2.5	100	3.1	27.6	105	113.5
TRD001256		0.90	2.4	98	3.1	28.6	109	109.0
TRD001257		0.22	1.1	225	0.4	21.9	82	103.5
TRD001258		0.92	2.9	96	3.8	26.4	111	112.5
TRD001259		0.79	2.8	99	3.3	27.0	97	111.5
TRD001260		0.96	2.8	100	3.1	27.2	107	112.5
TRD001261		1.02	2.8	97	2.4	26.5	106	110.5
TRD001262		0.95	2.7	101	2.6	26.5	99	117.0
TRD001263		0.87	2.5	97	2.6	31.8	102	109.5
TRD001264		0.88	3.0	97	2.6	30.6	102	115.0
TRD001265		0.87	2.7	95	2.6	30.1	103	129.0
TRD001266		0.91	2.5	96	2.6	27.7	100	112.5
TRD001267		0.98	2.6	95	2.5	27.7	102	115.0
TRD001268		1.03	2.6	99	2.7	27.0	98	110.5
TRD001269		0.84	3.1	97	2.7	26.4	98	113.0
TRD001270		0.94	3.1	98	2.9	32.2	101	113.0
TRD001271		0.89	3.4	96	3.2	30.8	106	115.5
TRD001272		0.92	2.5	96	2.6	27.3	102	108.0
TRD001273		1.08	3.1	106	3.2	33.7	115	119.0
TRD001274		1.06	3.1	98	2.8	28.6	109	116.5
TRD001275		1.02	2.7	100	2.5	27.7	103	115.5
TRD001276		1.18	2.9	97	2.4	29.0	99	134.0
TRD001277		1.12	2.7	110	3.5	15.6	106	118.5
TRD001278		1.06	2.8	96	2.8	26.6	103	130.0
TRD001279		1.00	3.3	93	2.4	27.5	98	119.0
TRD001280		0.93	2.7	94	2.7	27.5	99	115.0



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR421	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001281		1.59		<0.005		0.04	7.90	1.0	480	2.83	0.43	0.08	0.02	87.0	16.3	65
TRD001282		1.67		<0.005		0.03	7.95	0.6	490	2.81	0.60	0.09	0.02	83.8	15.3	65
TRD001283		1.60		<0.005		0.04	7.90	0.6	490	2.76	0.69	0.10	0.02	89.7	14.8	64
TRD001284		1.62		0.006		0.05	8.15	1.1	200	0.72	0.04	6.74	0.09	28.3	39.4	4
TRD001285		1.69		<0.005		0.02	7.79	0.5	540	2.39	0.40	0.10	<0.02	84.1	14.6	63
TRD001286		1.51		<0.005		0.03	7.93	0.5	590	2.44	0.42	0.10	0.02	89.2	16.2	60
TRD001287		1.64		<0.005		0.03	7.83	0.7	500	2.86	0.69	0.11	<0.02	91.3	21.5	65
TRD001288		1.71		0.007		0.02	7.87	0.7	490	2.68	0.34	0.10	<0.02	91.5	20.5	64
TRD001289		2.09		<0.005		0.02	7.80	0.6	480	2.61	0.51	0.10	<0.02	90.9	15.0	65
TRD001290		1.96		<0.005		0.02	7.77	0.7	500	2.84	0.40	0.09	<0.02	88.1	14.8	64
TRD001291		1.26		0.020		0.03	7.71	0.6	580	2.65	0.70	0.10	<0.02	93.7	14.9	63
TRD001292		1.69		<0.005		0.04	7.78	0.7	580	2.56	0.76	0.12	0.02	89.1	15.8	64
TRD001293		1.73		<0.005		0.04	7.95	0.8	580	2.47	0.37	0.12	0.03	77.2	16.6	67
TRD001294		2.12		<0.005		0.03	7.80	1.3	550	2.22	0.37	0.13	0.02	89.8	16.0	65
TRD001295		2.33		0.020		0.03	7.86	2.1	650	2.29	0.52	0.11	0.03	91.0	16.4	64
TRD001296		1.25		0.009		0.03	8.30	3.2	820	2.86	0.52	0.14	0.03	92.3	16.9	67
TRD001297		0.87		0.005		0.02	7.72	3.0	680	2.32	0.26	0.10	0.03	90.0	15.6	63
TRD001298		1.64		0.007		0.02	7.56	1.6	610	2.61	0.42	0.11	0.02	78.3	15.7	62
TRD001299		1.86		<0.005		0.02	7.79	0.8	540	2.45	0.40	0.11	0.03	81.0	16.4	64
TRD001300		1.69		<0.005		0.03	7.97	0.7	520	2.87	0.65	0.10	0.03	92.9	16.5	63
TRD001301		1.36		<0.005		0.02	7.80	0.8	490	2.93	0.46	0.09	0.02	94.8	16.0	63
TRD001302		2.35		<0.005		0.03	7.95	1.2	480	2.92	0.68	0.11	<0.02	91.4	16.3	63
TRD001303		2.15		<0.005		0.03	8.02	0.7	460	2.94	0.33	0.11	0.05	85.2	16.4	64
TRD001304		1.82		<0.005		0.02	7.01	0.6	440	3.01	0.20	0.10	0.06	64.5	18.3	66
TRD001305		1.97		<0.005		0.03	7.50	0.6	430	2.81	0.31	0.12	0.13	90.0	15.9	61
TRD001306		2.03		<0.005		0.02	6.92	0.6	460	2.83	0.28	0.11	0.12	60.2	16.4	63
TRD001307		2.19		<0.005		0.02	8.32	0.6	550	3.22	0.64	0.11	0.07	99.6	17.2	68
TRD001308		1.40		<0.005		0.02	8.09	0.6	490	2.91	0.21	0.12	0.07	84.5	17.2	67
TRD001309		3.18		<0.005		0.03	7.74	1.3	470	2.85	0.30	0.11	0.05	49.3	18.2	72
TRD001310		2.28		<0.005		0.02	7.89	1.4	450	2.65	0.33	0.11	0.03	79.6	17.2	64
TRD001311		1.72		0.007		0.05	8.40	1.2	210	0.73	0.04	7.12	0.09	28.3	40.2	4
TRD001312		0.07		>10.0	26.1	1.39	6.18	3710	530	2.20	0.67	0.82	0.09	66.1	12.2	96
TRD001313		0.07		0.985		0.31	7.22	55.3	140	0.38	0.04	7.34	0.54	12.35	42.9	119
TRD001314		0.07		<0.005		<0.01	0.09	0.9	<10	0.05	0.01	0.01	<0.02	1.98	0.4	5
TRD001315		0.07		2.94		0.22	7.58	641	690	2.23	0.38	0.80	0.05	81.4	13.7	118
TRD001316		2.48		<0.005		0.02	8.16	1.1	480	2.75	0.50	0.11	0.02	84.7	16.5	65
TRD001317		2.09		<0.005		0.03	8.32	0.7	490	2.88	0.37	0.11	0.02	94.3	16.9	66
TRD001318		2.12		<0.005		0.04	7.95	0.7	470	2.75	0.25	0.14	0.02	91.2	15.4	65
TRD001319		2.04		0.007		0.03	8.15	0.6	480	2.93	0.35	0.11	<0.02	95.0	16.4	66
TRD001320		3.11	99.2	<0.005		0.02	7.96	1.7	470	2.94	0.47	0.11	0.03	94.2	16.5	67



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001281		9.40	24.8	3.84	20.3	0.11	3.2	0.079	3.04	44.1	40.5	1.52	893	0.30	0.49	15.4
TRD001282		8.88	25.8	3.79	19.60	0.12	3.2	0.066	3.07	41.0	39.4	1.51	781	0.28	0.52	14.6
TRD001283		8.50	28.0	3.79	19.90	0.10	3.1	0.076	3.07	43.4	44.0	1.51	824	0.20	0.53	14.7
TRD001284		1.53	145.0	7.11	16.85	0.07	2.6	0.056	0.76	13.3	11.8	2.45	1195	0.45	1.46	4.9
TRD001285		9.09	27.7	3.70	20.0	0.11	3.0	0.072	3.23	39.6	37.5	1.39	565	0.37	0.46	14.1
TRD001286		8.87	36.6	3.76	20.3	0.12	3.2	0.069	3.28	42.4	36.4	1.39	595	0.46	0.48	15.0
TRD001287		8.53	36.6	3.48	20.1	0.11	3.1	0.079	3.11	43.4	39.4	1.40	639	0.36	0.50	14.3
TRD001288		8.33	26.6	3.84	20.4	0.12	3.2	0.067	3.14	44.8	38.5	1.44	595	0.36	0.50	14.8
TRD001289		8.27	21.8	3.93	20.1	0.11	3.2	0.065	3.14	43.4	38.2	1.41	556	0.40	0.50	14.4
TRD001290		7.64	26.5	3.72	20.2	0.11	3.1	0.079	3.17	41.7	37.1	1.36	495	0.41	0.49	14.8
TRD001291		8.14	28.1	3.64	19.15	0.11	3.0	0.059	3.13	45.5	34.1	1.36	593	0.23	0.53	14.4
TRD001292		10.75	24.9	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
TRD001293		10.35	36.2	4.13	20.4	0.11	3.1	0.082	3.07	36.5	39.8	1.49	1110	0.66	0.57	14.7
TRD001294		11.00	29.1	4.05	19.50	0.11	3.1	0.072	2.88	44.1	40.5	1.52	1140	0.43	0.60	14.5
TRD001295		10.25	24.7	3.99	20.8	0.14	3.2	0.066	3.04	44.3	38.9	1.42	837	0.52	0.55	14.6
TRD001296		10.20	33.1	3.87	21.8	0.13	3.1	0.073	2.98	44.2	40.9	1.40	917	0.52	0.68	14.7
TRD001297		6.59	21.9	3.90	19.85	0.13	3.1	0.081	2.83	43.8	37.8	1.33	766	0.34	0.56	14.7
TRD001298		7.88	29.1	3.60	19.55	0.11	3.1	0.070	2.76	36.3	39.4	1.36	953	0.54	0.66	14.3
TRD001299		8.02	26.0	3.97	20.6	0.13	3.0	0.077	3.00	37.5	39.7	1.39	896	0.41	0.60	14.7
TRD001300		7.74	24.3	4.00	20.8	0.13	3.1	0.064	3.07	44.9	38.8	1.43	772	0.23	0.58	14.6
TRD001301		7.34	27.4	3.78	20.4	0.14	3.1	0.066	3.05	46.6	38.2	1.42	603	0.29	0.57	14.5
TRD001302		7.07	29.6	3.82	20.1	0.14	3.1	0.080	3.07	44.8	37.3	1.42	583	0.40	0.60	14.7
TRD001303		6.85	28.9	4.08	20.0	0.14	3.1	0.071	3.06	41.0	35.1	1.47	662	0.42	0.65	14.4
TRD001304		6.61	33.1	4.14	21.9	0.16	3.2	0.083	3.01	29.5	38.9	1.38	770	0.36	0.62	15.5
TRD001305		7.16	42.6	3.82	19.15	0.15	2.9	0.072	2.81	44.4	34.8	1.34	931	0.41	0.63	13.9
TRD001306		6.74	31.5	3.87	19.95	0.14	3.1	0.077	2.89	27.6	36.7	1.32	919	0.48	0.63	14.6
TRD001307		9.05	30.7	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
TRD001308		8.49	27.6	4.34	21.3	0.14	3.2	0.073	3.11	39.9	39.5	1.47	924	0.42	0.68	15.1
TRD001309		7.80	26.2	4.37	21.7	0.12	3.2	0.079	3.19	20.8	40.0	1.45	779	0.56	0.63	15.5
TRD001310		8.04	23.7	4.12	20.5	0.14	2.9	0.065	3.02	37.0	38.1	1.41	667	0.46	0.57	14.4
TRD001311		1.42	149.5	7.43	17.15	0.10	2.6	0.060	0.79	13.1	11.5	2.56	1250	0.45	1.52	5.0
TRD001312		8.59	53.2	3.33	15.65	0.11	2.8	0.051	2.53	33.5	36.8	1.22	334	1.33	0.46	10.6
TRD001313		0.80	171.5	8.01	15.75	0.13	1.6	0.086	0.38	4.9	11.5	3.88	1325	0.90	1.72	3.4
TRD001314		0.09	4.6	0.34	0.23	0.05	0.2	<0.005	0.01	0.9	14.0	0.01	31	0.66	0.01	0.9
TRD001315		9.03	30.3	3.92	18.75	0.13	3.6	0.061	2.79	40.4	42.5	1.53	334	0.67	0.69	13.6
TRD001316		8.13	24.1	4.19	20.5	0.11	2.9	0.073	3.16	41.2	37.2	1.45	829	0.36	0.53	14.2
TRD001317		8.13	26.2	3.90	21.4	0.12	3.0	0.078	3.10	43.9	39.8	1.40	739	0.35	0.50	14.1
TRD001318		7.97	34.0	3.54	20.4	0.12	2.9	0.060	2.87	43.6	39.0	1.37	851	0.63	0.70	14.3
TRD001319		7.43	34.1	3.96	22.2	0.12	3.1	0.071	3.06	45.8	38.2	1.38	687	0.46	0.63	14.4
TRD001320		6.75	21.5	4.20	21.0	0.12	2.9	0.077	2.97	45.8	42.2	1.37	791	0.38	0.57	14.1



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001281		35.3	370	18.8	186.0	<0.002	0.01	0.85	13.8	<1	4.0	31.6	1.19	0.05	17.15	0.416
TRD001282		35.6	410	17.2	177.5	<0.002	0.01	0.92	13.9	<1	3.9	35.4	1.12	<0.05	17.35	0.408
TRD001283		34.6	410	18.0	200	<0.002	0.01	0.82	13.0	<1	4.2	37.5	1.12	<0.05	19.45	0.413
TRD001284		38.9	400	5.4	34.9	<0.002	0.03	0.07	39.4	1	1.0	150.5	0.33	<0.05	3.64	0.390
TRD001285		34.6	430	13.4	193.0	<0.002	0.01	0.66	13.1	<1	3.9	39.2	1.16	<0.05	18.75	0.406
TRD001286		35.0	470	14.6	195.5	<0.002	0.01	0.66	13.1	<1	4.2	42.0	1.16	<0.05	18.75	0.402
TRD001287		38.6	440	18.2	181.0	<0.002	0.01	1.06	13.8	<1	3.9	39.5	1.11	<0.05	18.45	0.422
TRD001288		38.2	430	18.2	192.0	<0.002	0.02	0.96	13.5	<1	4.0	39.1	1.15	<0.05	19.00	0.413
TRD001289		34.8	450	16.8	192.0	<0.002	0.02	0.93	13.7	1	3.9	39.9	1.15	<0.05	18.70	0.410
TRD001290		35.9	410	15.8	193.0	<0.002	0.02	0.95	13.6	<1	4.2	45.3	1.13	<0.05	19.35	0.407
TRD001291		34.8	450	16.1	194.5	<0.002	0.06	0.89	12.8	<1	4.0	63.4	1.08	<0.05	18.50	0.415
TRD001292		35.6	490	18.6	209	<0.002	0.04	0.91	13.8	<1	3.9	75.6	1.13	<0.05	18.55	0.416
TRD001293		37.1	480	19.2	195.5	<0.002	0.02	1.44	14.2	<1	4.2	77.1	1.13	0.08	17.70	0.425
TRD001294		35.9	520	19.9	193.5	<0.002	0.01	1.58	13.1	<1	3.9	65.6	1.10	0.06	18.65	0.424
TRD001295		36.6	480	14.8	190.0	<0.002	0.01	1.04	13.8	<1	4.1	49.4	1.12	0.09	18.60	0.423
TRD001296		38.5	440	27.1	203	<0.002	0.01	1.54	14.7	<1	4.3	101.0	1.21	0.06	19.35	0.427
TRD001297		35.7	410	13.6	173.0	<0.002	0.01	1.06	13.3	<1	4.2	43.2	1.12	0.05	18.65	0.410
TRD001298		33.7	430	20.6	159.0	<0.002	0.01	1.30	13.2	<1	3.9	47.8	1.11	0.15	16.65	0.417
TRD001299		37.0	460	16.9	168.5	<0.002	0.01	1.12	13.7	<1	4.0	41.6	1.12	0.12	16.90	0.420
TRD001300		36.5	420	17.8	191.5	<0.002	0.01	1.13	14.3	<1	4.0	39.1	1.13	<0.05	18.90	0.415
TRD001301		35.5	420	18.6	194.0	<0.002	0.03	1.49	13.8	<1	4.0	40.0	1.13	<0.05	18.85	0.405
TRD001302		35.6	430	20.4	186.5	<0.002	0.03	1.72	13.5	<1	4.0	42.7	1.16	<0.05	18.70	0.415
TRD001303		36.0	470	18.6	180.0	<0.002	0.02	1.27	13.5	<1	4.0	38.6	1.13	<0.05	17.95	0.420
TRD001304		40.4	450	18.3	133.0	<0.002	0.01	1.17	16.5	<1	4.4	38.3	1.20	<0.05	13.00	0.423
TRD001305		34.8	470	18.4	176.5	<0.002	0.01	1.12	13.1	<1	4.0	45.5	1.06	<0.05	16.75	0.397
TRD001306		36.2	460	18.2	132.5	<0.002	0.01	1.05	13.9	<1	4.1	44.0	1.12	<0.05	12.45	0.413
TRD001307		38.3	470	21.4	210	<0.002	0.02	1.08	14.5	<1	4.4	52.0	1.12	<0.05	19.05	0.426
TRD001308		37.4	490	19.1	185.5	<0.002	0.01	1.05	14.5	<1	4.3	47.1	1.18	<0.05	17.75	0.439
TRD001309		41.2	500	20.0	147.0	<0.002	0.01	1.63	14.2	<1	4.4	43.1	1.18	<0.05	12.55	0.446
TRD001310		38.0	480	18.0	199.0	<0.002	0.01	1.50	14.6	1	4.2	41.5	1.08	0.07	17.95	0.408
TRD001311		40.1	410	5.5	29.6	<0.002	0.04	0.09	41.2	<1	1.0	156.0	0.32	<0.05	3.64	0.412
TRD001312		43.6	480	30.2	154.0	<0.002	0.74	3460	10.9	1	3.4	101.0	0.78	<0.05	11.85	0.345
TRD001313		86.7	410	20.9	11.6	0.003	0.32	2.50	41.7	1	1.0	193.5	0.20	0.08	0.84	0.606
TRD001314		2.5	10	0.6	0.4	<0.002	0.01	0.33	0.2	<1	0.5	0.7	<0.05	<0.05	0.62	0.031
TRD001315		58.6	560	18.4	165.0	<0.002	0.14	604	14.2	<1	3.7	105.0	1.03	<0.05	14.65	0.471
TRD001316		37.1	470	18.4	201	<0.002	0.01	1.73	14.1	1	4.0	42.1	1.10	<0.05	18.60	0.423
TRD001317		40.3	470	19.0	210	<0.002	0.01	1.47	14.6	<1	4.3	39.6	1.25	<0.05	18.80	0.412
TRD001318		35.8	490	22.2	193.0	<0.002	0.01	1.24	13.8	<1	4.0	43.2	1.18	<0.05	17.25	0.412
TRD001319		37.8	480	18.6	194.0	<0.002	0.01	1.20	14.5	<1	4.0	39.7	1.20	<0.05	18.10	0.410
TRD001320		39.0	480	17.8	187.5	<0.002	0.05	1.85	13.8	<1	4.1	39.2	1.12	<0.05	17.70	0.402



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001281		0.89	2.5	92	2.9	26.5	93	114.0
TRD001282		0.86	2.5	93	2.9	25.8	93	111.0
TRD001283		0.77	2.6	93	3.0	26.3	92	106.5
TRD001284		0.17	0.9	221	0.4	23.1	80	98.3
TRD001285		0.88	2.6	91	2.8	22.4	93	105.0
TRD001286		0.82	2.8	87	2.8	25.5	94	108.0
TRD001287		0.88	3.2	92	3.3	27.2	93	107.0
TRD001288		0.94	2.9	92	3.1	26.1	95	135.5
TRD001289		0.81	2.7	90	2.8	23.3	93	107.0
TRD001290		0.81	3.0	92	4.2	26.2	90	109.0
TRD001291		0.82	3.0	90	3.1	29.0	91	109.0
TRD001292		0.96	3.0	93	2.8	23.1	97	105.5
TRD001293		0.93	2.8	96	2.8	21.4	98	110.5
TRD001294		0.89	3.1	91	2.6	23.8	96	113.5
TRD001295		0.87	3.0	95	2.9	22.1	97	111.0
TRD001296		0.99	4.0	97	2.8	21.6	102	107.5
TRD001297		0.70	2.7	92	3.1	21.1	94	111.5
TRD001298		0.80	2.7	92	3.0	19.9	93	103.5
TRD001299		0.81	2.7	94	2.9	20.5	96	107.0
TRD001300		0.79	3.0	93	3.0	23.5	96	110.5
TRD001301		0.83	3.2	94	3.5	24.6	93	109.0
TRD001302		0.81	3.0	93	3.6	24.1	94	107.0
TRD001303		0.76	2.7	96	3.2	23.6	96	106.5
TRD001304		0.87	2.8	96	3.2	19.8	99	112.0
TRD001305		0.80	2.7	88	2.7	27.0	84	102.5
TRD001306		0.81	2.8	93	3.2	19.2	87	106.5
TRD001307		0.91	2.8	97	3.3	28.0	91	106.0
TRD001308		0.87	2.8	97	3.4	25.1	94	112.0
TRD001309		0.93	2.7	101	3.7	17.0	100	111.0
TRD001310		0.90	2.6	92	3.4	22.2	92	102.0
TRD001311		0.19	0.9	226	0.4	23.2	84	100.0
TRD001312		0.72	2.3	81	7.1	11.7	88	110.5
TRD001313		0.18	0.2	266	26.9	20.9	142	50.1
TRD001314		<0.02	0.1	2	0.2	0.6	3	7.3
TRD001315		0.79	2.5	105	2.9	16.5	99	124.0
TRD001316		0.85	2.6	96	3.3	22.5	95	102.0
TRD001317		0.93	2.6	99	4.0	22.2	97	113.5
TRD001318		0.83	2.9	95	3.3	23.8	97	114.0
TRD001319		0.84	2.8	96	3.5	24.1	98	112.0
TRD001320		0.83	2.4	91	4.0	23.6	101	113.0



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Project: Panama Project

**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	WEI-21	PUL-QC	Au-AA23	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001321		3.11		<0.005		0.02	7.88	0.7	470	2.61	0.46	0.11	0.03	88.6	16.0	68
TRD001322		2.46		<0.005		0.03	7.77	0.9	480	2.64	0.59	0.11	0.02	85.9	16.2	68
TRD001323		3.23		<0.005		0.03	8.01	0.7	510	2.71	0.36	0.12	0.02	99.2	17.3	69
TRD001324		3.25		0.007		0.03	7.63	1.7	470	2.51	0.35	0.14	0.02	87.5	16.6	67
TRD001325		2.70		0.013		0.03	7.94	2.6	520	2.53	0.20	0.18	0.02	87.1	16.0	68
TRD001326		4.30		0.005		0.07	8.02	0.5	510	2.95	0.56	0.10	0.03	96.0	15.6	70

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



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 Account: TINONEAUS

Project: Panama Project

**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														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001321		8.09	24.4	4.39	20.9	0.11	3.2	0.071	2.98	42.6	33.5	1.35	1125	0.44	0.64	13.5
TRD001322		7.88	28.5	4.25	20.4	0.15	3.1	0.066	2.93	39.3	33.8	1.34	1055	0.54	0.64	14.2
TRD001323		8.97	32.9	3.81	21.9	0.12	3.1	0.072	2.98	45.5	35.9	1.40	1020	0.64	0.66	14.8
TRD001324		9.31	28.7	3.82	20.6	0.12	3.2	0.061	2.76	41.1	34.3	1.34	1170	0.57	0.67	14.3
TRD001325		9.30	26.4	3.84	19.30	0.15	3.1	0.074	2.81	43.1	35.6	1.35	1360	0.63	0.70	14.2
TRD001326		10.65	79.3	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

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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001321		37.7	470	18.4	185.5	<0.002	0.01	1.03	13.4	<1	4.1	40.0	1.19	<0.05	18.10	0.399
TRD001322		38.7	460	18.1	191.0	<0.002	0.01	0.98	13.7	<1	4.1	43.7	1.18	<0.05	18.00	0.392
TRD001323		39.6	490	16.1	190.5	<0.002	0.01	1.15	14.0	<1	4.3	54.4	1.20	<0.05	18.35	0.406
TRD001324		38.1	490	15.6	183.5	<0.002	0.01	0.72	12.8	<1	4.0	53.9	1.22	0.05	17.70	0.395
TRD001325		38.0	510	17.7	186.5	<0.002	0.01	0.71	12.8	<1	4.0	69.3	1.18	<0.05	18.15	0.409
TRD001326		39.1	440	16.0	203	<0.002	0.02	0.67	14.8	<1	4.2	50.5	1.24	<0.05	17.70	0.402

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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22086066**

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Sample Description	Method Analyte Units LOD	ME-MS61						
		Tl	U	V	W	Y	Zn	Zr
		ppm						
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001321		0.84	2.3	94	2.9	21.3	101	110.0
TRD001322		0.81	2.4	92	2.8	21.1	101	115.5
TRD001323		0.86	2.7	95	2.8	23.3	102	115.5
TRD001324		0.80	2.6	90	2.8	21.4	99	116.0
TRD001325		0.87	3.4	95	2.8	24.3	97	115.5
TRD001326		0.88	2.9	98	2.9	22.4	101	109.0



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**CERTIFICATE OF ANALYSIS BU22086066**

	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<b>ANALYTICAL COMMENTS</b>								
	REEs may not be totally soluble in this method. ME-MS61								
Applies to Method:	<b>ACCREDITATION COMMENTS</b>								
	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								
Applies to Method:	<b>LABORATORY ADDRESSES</b>								
	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.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">CRU-21</td> <td style="width: 33%;">LEV-01</td> <td style="width: 33%;">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  
 Account: TINONEAUS

**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

**CERTIFICATE OF ANALYSIS BU22092015**

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001327		0.09	96.9	1.625		0.32	7.73	6.0	610	2.30	0.41	0.09	0.14	84.5	14.8	67
TRD001328		0.57		9.16		0.06	7.46	16.6	470	1.86	0.42	0.01	0.02	22.7	4.6	93
TRD001329		0.80		0.028		0.01	8.85	11.2	700	2.48	0.28	<0.01	<0.02	21.4	3.2	86
TRD001330		1.70		0.353		0.01	9.26	13.0	640	2.30	0.28	0.01	<0.02	38.5	3.9	81
TRD001331		0.81		0.031		0.01	8.54	16.0	730	2.17	0.29	<0.01	0.02	18.00	3.4	75
TRD001332		1.46		0.021		0.01	8.58	5.1	730	2.31	0.29	0.01	<0.02	19.90	4.2	70
TRD001333		1.28		0.030		0.01	8.08	19.4	710	2.40	0.45	<0.01	<0.02	30.2	3.4	73
TRD001334		1.11		0.031		0.01	8.85	18.3	770	2.70	0.35	<0.01	0.02	29.4	4.7	73
TRD001335		1.17		0.175		0.02	5.24	26.4	290	1.62	0.69	0.01	<0.02	81.8	2.5	55
TRD001336		0.85		0.608		0.03	4.02	15.5	240	0.93	1.77	0.01	0.02	96.1	2.9	36
TRD001337		1.65		0.092		0.01	4.84	11.5	370	1.16	0.51	0.01	<0.02	107.0	3.5	45
TRD001338		1.25		0.064		0.01	4.15	10.2	300	0.96	0.21	0.01	<0.02	103.5	3.0	38
TRD001339		1.55		0.034		0.01	4.14	10.9	250	1.14	0.18	0.01	<0.02	116.5	2.3	37
TRD001340		1.41		0.021		0.02	3.65	8.3	350	0.97	0.16	0.01	0.02	133.5	2.1	41
TRD001341		1.37		0.013		0.01	3.46	6.5	340	0.88	0.15	0.01	0.02	163.5	2.4	40
TRD001342		1.47		0.010		0.06	7.90	1.4	210	0.77	0.13	6.71	0.09	29.8	43.9	4
TRD001343		1.27		0.024		0.02	3.99	9.0	390	1.17	0.13	0.01	0.02	134.5	3.1	44
TRD001344		1.08		0.026		0.01	3.88	9.2	380	1.18	0.15	0.01	<0.02	120.5	3.0	41
TRD001345		1.29		0.010		0.01	4.06	10.3	370	1.10	0.11	0.02	<0.02	115.5	4.0	35
TRD001346		1.07		0.011		0.01	3.87	10.4	390	1.04	0.08	0.01	<0.02	124.0	4.0	39
TRD001347		1.26		0.459		0.07	3.22	1015	340	0.94	0.76	0.01	<0.02	160.5	6.0	46
TRD001348		1.53		0.195		0.03	3.54	332	250	1.01	0.46	0.01	<0.02	184.0	4.7	41
TRD001349		1.43		0.576		0.01	2.47	46.3	180	0.81	0.20	0.01	<0.02	135.5	4.7	29
TRD001350		1.35		0.063		0.03	3.71	104.0	340	1.10	0.30	0.01	<0.02	168.0	6.8	46
TRD001351		1.88		0.063		0.01	3.85	23.1	280	1.18	0.19	0.01	<0.02	148.0	4.6	37
TRD001352		1.34		0.019		0.02	4.64	25.0	330	1.38	0.13	0.01	<0.02	143.5	6.2	40
TRD001353		1.45		0.013		0.02	5.93	18.8	530	1.68	0.13	0.01	0.02	145.0	9.5	47
TRD001354		1.67		0.026		0.01	6.15	34.4	620	1.71	0.20	0.01	<0.02	127.5	8.8	54
TRD001355		1.88		0.038		0.06	3.84	25.9	350	1.12	0.31	0.01	<0.02	188.0	6.6	40
TRD001356		1.33		0.014		0.02	7.94	17.4	850	2.85	0.32	<0.01	<0.02	126.5	20.3	64
TRD001357		1.77		0.008		<0.01	8.01	5.2	810	2.91	0.49	<0.01	<0.02	120.0	13.4	66
TRD001358		1.68		0.008		<0.01	8.03	3.8	890	2.83	0.37	<0.01	<0.02	120.0	12.7	67
TRD001359		1.57		0.012		0.01	5.55	6.3	560	1.89	0.17	0.01	<0.02	90.9	15.2	49
TRD001360		4.26		0.045		0.01	5.78	42.5	500	1.95	0.27	0.01	0.02	101.0	9.7	53
TRD001361		1.32		0.029		0.10	6.92	13.3	710	2.35	0.16	0.01	<0.02	87.2	8.6	61
TRD001362		1.08		0.010		0.01	4.55	12.0	380	1.59	0.08	0.01	<0.02	76.6	6.7	40
TRD001363		1.55		0.010		0.01	4.88	13.2	430	1.70	0.12	0.01	0.02	79.4	9.6	44
TRD001364		1.17		0.005		<0.01	3.93	7.1	330	1.21	0.07	0.01	<0.02	70.2	8.4	37
TRD001365		1.02		0.007		<0.01	3.85	7.2	330	1.32	0.11	0.01	0.02	75.4	6.9	39
TRD001366		2.64	97.2	0.081		<0.01	3.43	8.6	260	1.28	0.11	0.01	<0.02	63.7	9.5	37



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Finalized Date: 25-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001327		7.00	32.3	3.82	19.55	0.11	3.1	0.064	2.74	40.2	33.9	1.19	821	0.59	0.52	13.6
TRD001328		9.64	18.0	5.03	25.9	0.22	3.8	0.087	1.82	9.7	22.4	0.26	213	1.02	0.10	14.7
TRD001329		7.29	29.2	4.34	24.2	0.08	3.8	0.089	2.85	9.9	13.7	0.33	222	0.36	0.11	15.7
TRD001330		8.00	31.9	4.38	22.4	0.08	3.9	0.074	2.50	20.5	15.4	0.35	247	0.43	0.10	15.0
TRD001331		7.50	29.0	3.48	22.1	0.07	3.5	0.078	2.68	8.9	14.1	0.30	326	0.24	0.10	15.0
TRD001332		9.63	30.4	4.20	20.1	0.06	3.0	0.073	2.85	10.9	19.7	0.38	303	0.17	0.10	13.9
TRD001333		6.93	32.8	3.72	21.0	0.08	3.4	0.077	2.74	14.2	15.7	0.28	275	0.27	0.10	14.6
TRD001334		8.87	40.3	4.31	22.8	0.08	3.5	0.068	3.01	15.8	20.9	0.40	240	0.34	0.11	15.2
TRD001335		5.07	22.4	2.97	12.90	0.10	3.1	0.036	1.27	41.5	10.5	0.18	127	0.48	0.05	10.1
TRD001336		5.68	16.6	1.73	8.98	0.10	2.8	0.026	0.88	46.0	8.8	0.20	138	0.61	0.03	9.1
TRD001337		6.36	20.0	2.23	11.40	0.11	3.4	0.036	1.44	50.3	11.4	0.29	183	0.52	0.05	9.9
TRD001338		5.83	14.6	1.90	8.83	0.10	3.5	0.024	1.17	52.0	8.0	0.24	125	0.50	0.03	8.9
TRD001339		5.71	11.3	1.89	9.09	0.10	3.1	0.030	1.07	57.4	7.0	0.19	92	0.54	0.03	8.7
TRD001340		4.30	10.7	1.76	9.32	0.12	3.3	0.029	1.24	60.5	6.8	0.21	120	0.53	0.04	9.2
TRD001341		4.12	11.5	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
TRD001342		1.51	154.5	7.09	18.25	0.12	2.9	0.067	0.75	13.7	11.2	2.34	1295	0.48	1.47	5.3
TRD001343		5.19	14.6	1.91	10.20	0.12	3.9	0.030	1.33	62.0	7.6	0.26	141	0.44	0.04	9.2
TRD001344		4.97	12.8	1.89	10.05	0.12	3.7	0.036	1.30	55.5	8.0	0.26	151	0.45	0.04	9.0
TRD001345		5.73	15.8	2.06	9.25	0.11	3.2	0.037	1.16	57.0	8.3	0.30	196	0.47	0.04	8.6
TRD001346		5.43	15.8	1.85	9.42	0.12	3.9	0.024	1.30	54.0	7.6	0.32	180	0.43	0.04	9.9
TRD001347		4.34	11.2	1.81	7.77	0.13	4.5	0.022	1.00	71.9	6.3	0.20	211	0.54	0.03	8.7
TRD001348		4.27	11.0	1.80	8.57	0.15	6.4	0.024	0.87	81.0	7.3	0.17	205	0.51	0.03	10.1
TRD001349		3.09	8.2	1.43	6.36	0.11	3.7	0.019	0.66	51.1	6.1	0.12	192	0.52	0.02	7.1
TRD001350		4.63	13.2	1.74	9.42	0.14	4.6	0.033	1.01	70.0	9.3	0.21	233	0.52	0.03	10.0
TRD001351		6.14	15.4	1.82	9.40	0.14	3.7	0.026	1.03	68.5	11.2	0.26	172	0.50	0.03	9.0
TRD001352		7.05	17.6	2.22	10.80	0.14	3.6	0.037	1.24	64.7	16.4	0.36	233	0.35	0.04	10.0
TRD001353		8.22	21.1	2.65	14.05	0.16	2.9	0.050	2.04	67.3	25.3	0.54	302	0.30	0.06	11.0
TRD001354		7.80	20.7	2.81	15.15	0.15	3.3	0.047	2.33	64.1	22.8	0.57	291	0.39	0.07	12.1
TRD001355		5.58	17.8	2.08	10.30	0.17	3.2	0.034	1.27	103.5	19.6	0.50	326	0.44	0.06	9.5
TRD001356		14.90	39.2	3.73	20.2	0.21	3.4	0.071	3.11	64.3	38.8	0.92	570	0.32	0.10	15.7
TRD001357		15.00	24.0	4.18	19.85	0.22	3.3	0.066	3.03	69.0	34.5	1.01	365	0.22	0.11	14.8
TRD001358		14.05	32.0	4.04	21.0	0.25	3.3	0.072	3.11	68.6	35.0	1.08	320	0.18	0.12	15.4
TRD001359		8.72	16.7	2.69	14.25	0.15	3.2	0.049	2.00	45.8	29.8	0.62	455	0.34	0.07	11.8
TRD001360		7.92	18.2	2.87	14.05	0.14	3.3	0.050	1.91	50.5	21.8	0.47	329	0.55	0.06	11.6
TRD001361		10.20	20.8	3.08	17.35	0.16	3.3	0.057	2.64	47.0	25.7	0.57	274	0.41	0.08	14.0
TRD001362		7.62	11.0	2.06	11.30	0.14	2.8	0.024	1.51	44.7	27.7	0.43	223	0.44	0.05	9.8
TRD001363		8.37	11.2	2.29	12.10	0.14	2.8	0.041	1.69	44.5	25.8	0.44	299	0.61	0.06	10.2
TRD001364		7.76	7.0	1.80	9.43	0.11	2.5	0.032	1.36	40.9	20.1	0.42	274	0.47	0.07	8.6
TRD001365		6.97	6.9	1.80	9.36	0.13	3.2	0.036	1.33	40.9	22.2	0.44	227	0.66	0.09	9.1
TRD001366		7.08	7.6	1.88	8.54	0.11	2.5	0.025	1.10	36.2	21.3	0.36	313	0.78	0.06	8.1



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Finalized Date: 25-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001327		36.9	400	162.0	164.0	<0.002	0.02	1.88	12.8	<1	4.0	40.3	1.14	<0.05	17.75	0.388
TRD001328		21.0	150	18.1	113.0	<0.002	0.03	0.85	16.6	3	4.9	22.6	1.19	0.05	26.5	0.401
TRD001329		11.6	190	11.8	136.0	<0.002	0.03	0.73	19.0	1	4.7	29.4	1.32	0.07	26.2	0.425
TRD001330		14.6	200	14.2	129.5	<0.002	0.03	0.75	16.8	2	4.4	28.0	1.24	<0.05	24.9	0.414
TRD001331		11.8	270	11.1	143.0	<0.002	0.02	0.65	17.7	1	4.4	25.7	1.33	0.05	18.40	0.418
TRD001332		17.4	330	9.6	143.5	<0.002	0.02	0.54	16.9	1	3.9	27.6	1.16	<0.05	18.55	0.413
TRD001333		13.5	340	11.6	135.5	<0.002	0.02	0.75	18.4	<1	4.2	29.4	1.28	0.06	19.90	0.416
TRD001334		12.8	410	10.0	144.0	<0.002	0.03	1.18	21.4	1	4.6	29.5	1.28	0.06	19.35	0.430
TRD001335		9.6	380	12.5	78.8	<0.002	0.03	1.22	14.6	<1	3.0	19.7	0.85	0.09	14.50	0.288
TRD001336		11.7	240	10.2	68.7	<0.002	0.01	0.78	9.2	<1	2.7	17.7	0.72	0.15	10.85	0.249
TRD001337		11.7	290	9.1	84.5	<0.002	0.02	0.78	11.8	<1	2.8	20.6	0.90	0.07	13.40	0.295
TRD001338		12.2	320	7.1	74.7	<0.002	0.01	0.73	10.0	<1	2.3	18.2	0.75	<0.05	11.25	0.263
TRD001339		11.0	390	6.6	77.3	<0.002	0.01	0.91	11.4	<1	2.2	15.5	0.71	<0.05	10.30	0.258
TRD001340		8.1	410	6.7	73.8	<0.002	0.01	0.74	11.8	<1	2.2	20.0	0.72	<0.05	11.55	0.275
TRD001341		7.5	400	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
TRD001342		42.5	410	6.6	30.1	<0.002	0.04	0.20	39.6	<1	1.1	155.5	0.37	<0.05	3.54	0.389
TRD001343		11.2	460	7.9	76.5	<0.002	0.01	0.70	13.0	<1	2.4	18.8	0.89	<0.05	13.10	0.292
TRD001344		11.6	440	8.5	73.1	<0.002	0.01	0.61	11.8	<1	2.5	18.5	0.78	<0.05	12.05	0.277
TRD001345		14.8	440	7.1	73.4	<0.002	0.01	0.55	11.0	<1	2.3	21.3	0.75	<0.05	10.45	0.265
TRD001346		13.6	370	5.6	77.4	<0.002	0.01	0.58	10.6	<1	2.4	18.5	0.82	<0.05	12.65	0.289
TRD001347		12.0	400	6.3	62.3	<0.002	0.02	1.16	10.9	<1	2.2	20.0	0.74	1.20	12.05	0.268
TRD001348		10.6	440	8.5	61.6	<0.002	0.01	0.78	12.0	<1	2.2	25.6	0.90	0.40	15.35	0.316
TRD001349		7.9	270	5.3	48.8	<0.002	0.01	0.55	7.3	<1	1.8	15.8	0.61	0.07	9.68	0.214
TRD001350		13.4	410	8.6	67.9	<0.002	0.01	0.70	11.3	<1	2.5	23.8	0.87	0.15	13.95	0.297
TRD001351		14.8	400	8.2	76.5	<0.002	0.01	0.67	10.8	<1	2.1	21.5	0.75	<0.05	11.95	0.273
TRD001352		17.7	470	7.9	86.7	<0.002	0.01	0.53	13.0	<1	2.5	21.2	0.82	0.05	12.80	0.301
TRD001353		20.0	500	7.8	122.0	<0.002	0.01	0.58	15.8	<1	3.2	23.5	0.87	<0.05	13.60	0.311
TRD001354		20.1	500	12.6	123.5	<0.002	0.01	0.48	14.4	<1	3.4	30.4	0.96	0.07	15.50	0.345
TRD001355		17.9	470	11.2	83.6	<0.002	0.01	0.54	10.0	<1	2.5	32.0	0.77	<0.05	11.30	0.279
TRD001356		34.9	550	11.2	201	<0.002	0.01	0.66	15.4	<1	5.2	39.4	1.30	0.05	19.65	0.411
TRD001357		31.7	460	10.2	185.5	<0.002	0.01	0.54	15.0	<1	4.3	43.3	1.21	0.05	19.10	0.407
TRD001358		32.8	380	9.9	195.0	<0.002	0.01	0.37	15.6	<1	4.3	45.8	1.21	0.05	19.75	0.415
TRD001359		26.5	410	9.9	129.5	<0.002	0.01	0.44	10.0	<1	3.1	28.2	0.90	<0.05	13.90	0.321
TRD001360		21.3	470	10.4	118.0	<0.002	0.01	0.71	12.0	<1	3.0	27.1	0.90	0.06	15.00	0.334
TRD001361		21.2	540	8.4	151.0	<0.002	0.01	0.80	12.4	<1	3.9	29.8	1.04	<0.05	16.10	0.384
TRD001362		23.6	420	6.6	105.0	<0.002	0.01	0.59	7.5	<1	2.5	23.9	0.77	<0.05	12.00	0.284
TRD001363		23.3	440	7.2	116.0	<0.002	0.01	0.66	8.2	<1	2.7	23.6	0.80	<0.05	12.50	0.291
TRD001364		20.4	330	5.5	97.0	<0.002	0.01	0.51	6.0	<1	2.0	24.0	0.68	<0.05	10.10	0.259
TRD001365		21.8	330	5.6	86.7	<0.002	0.01	0.59	6.0	<1	2.2	25.2	0.71	<0.05	10.90	0.267
TRD001366		21.3	340	5.4	80.6	<0.002	0.01	0.52	5.4	<1	1.8	22.5	0.64	<0.05	9.51	0.235



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001327		0.78	2.7	92	4.3	20.2	131	112.5
TRD001328		0.53	3.0	113	15.2	8.0	29	132.0
TRD001329		0.55	3.0	95	10.0	9.4	38	142.0
TRD001330		0.53	3.0	99	10.1	11.4	42	134.0
TRD001331		0.57	3.7	103	5.5	9.6	40	127.5
TRD001332		0.67	3.2	94	5.7	12.0	66	112.0
TRD001333		0.53	3.7	101	6.6	10.8	43	117.5
TRD001334		0.59	3.7	100	13.6	10.8	53	123.5
TRD001335		0.35	2.6	59	15.1	9.6	22	114.0
TRD001336		0.31	1.6	40	12.8	10.0	22	105.0
TRD001337		0.40	2.0	52	13.4	12.0	31	119.0
TRD001338		0.34	1.7	41	11.5	12.0	22	121.5
TRD001339		0.36	2.1	39	13.6	12.3	18	111.5
TRD001340		0.31	2.2	44	7.1	12.0	16	127.5
TRD001341		0.31	2.2	43	4.9	11.8	17	150.0
TRD001342		0.22	0.9	227	0.7	23.7	86	112.5
TRD001343		0.34	2.7	47	10.0	13.2	22	129.5
TRD001344		0.33	2.5	44	4.0	13.6	23	126.0
TRD001345		0.36	2.2	42	2.9	13.5	31	113.0
TRD001346		0.34	2.2	43	3.3	14.5	29	145.5
TRD001347		0.33	2.3	35	9.1	12.9	19	165.5
TRD001348		0.30	2.6	40	6.4	12.4	18	223
TRD001349		0.24	1.6	29	5.2	8.6	12	142.5
TRD001350		0.34	2.2	43	10.2	14.4	20	167.5
TRD001351		0.36	2.3	41	8.5	14.6	30	123.0
TRD001352		0.46	2.9	48	12.9	17.1	45	120.5
TRD001353		0.61	3.1	62	4.7	18.6	64	102.5
TRD001354		0.58	2.9	69	4.3	21.6	66	110.5
TRD001355		0.41	2.5	44	6.6	16.3	44	106.5
TRD001356		1.04	3.7	88	4.2	28.8	92	126.0
TRD001357		0.99	2.7	88	3.7	28.4	93	109.0
TRD001358		1.00	2.8	90	3.2	25.6	102	115.5
TRD001359		0.71	2.6	63	3.1	22.2	66	105.5
TRD001360		0.58	2.8	64	6.4	19.0	55	142.5
TRD001361		0.73	2.9	78	5.6	25.7	61	116.5
TRD001362		0.50	2.3	49	3.6	27.1	54	106.0
TRD001363		0.58	2.5	53	3.5	28.1	54	96.8
TRD001364		0.53	1.9	42	2.2	26.4	52	91.1
TRD001365		0.45	2.1	42	2.1	26.0	54	96.6
TRD001366		0.47	1.9	37	2.6	24.4	48	83.7



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001367		1.80		0.087		<0.01	3.03	8.2	170	1.41	0.08	0.01	<0.02	64.0	13.1	33
TRD001368		1.22		0.009		0.06	8.08	1.2	210	0.95	0.29	6.81	0.14	26.9	39.5	3
TRD001369		1.34		0.010		0.01	6.93	10.2	640	2.56	0.15	0.01	0.02	97.4	17.1	62
TRD001370		1.65		0.021		0.01	3.97	7.2	350	1.44	0.11	0.01	<0.02	68.0	6.4	41
TRD001371		1.25		0.026		0.01	3.62	6.8	280	1.43	0.18	0.02	0.02	68.3	4.6	38
TRD001372		1.26		<0.005		0.02	4.65	9.7	350	1.80	0.18	0.01	<0.02	71.5	6.0	45
TRD001373		1.63		0.006		0.01	4.52	7.0	400	1.53	0.10	0.01	0.02	76.0	6.0	44
TRD001374		1.33		0.011		0.02	4.48	8.5	340	1.68	0.11	0.01	<0.02	73.5	9.3	42
TRD001375		1.88		0.011		0.01	4.22	8.1	330	1.66	0.15	0.01	0.02	70.1	8.1	41
TRD001376		1.24		0.026		0.01	6.23	6.5	570	2.21	0.17	0.01	0.02	80.0	12.0	56
TRD001377		1.45		0.024		0.01	4.09	7.7	290	1.66	0.16	0.01	0.02	66.2	6.6	39
TRD001378		1.34		0.009		0.03	5.16	12.4	400	1.96	0.21	0.01	0.03	77.7	10.4	49
TRD001379		0.99		0.005		0.05	7.34	11.6	600	2.38	0.40	0.02	0.05	92.0	11.5	58
TRD001380		1.77		0.008		0.04	7.11	10.7	600	2.45	0.42	0.01	0.13	90.9	17.1	61
TRD001381		1.54		0.044		0.02	4.40	7.3	300	1.88	0.15	0.01	0.05	65.9	10.7	41
TRD001382		1.41		0.016		0.02	7.05	6.4	620	2.38	0.11	0.01	0.04	83.2	28.1	61
TRD001383		1.63		0.009		0.02	7.80	4.9	630	2.63	0.29	0.01	0.02	91.1	16.0	64
TRD001384		0.96		0.007		0.02	7.65	10.0	600	2.82	0.39	0.01	<0.02	81.5	11.4	65
TRD001385		1.42		0.005		0.04	6.42	7.3	470	2.24	0.44	0.02	<0.02	77.2	11.8	63
TRD001386		1.72		0.014		0.03	6.07	12.7	440	2.19	0.20	0.02	0.03	73.3	9.3	55
TRD001387		1.15		0.005		0.03	7.56	15.2	550	2.77	0.30	0.07	0.03	76.2	11.6	61
TRD001388		1.44		<0.005		0.07	7.33	13.8	540	2.58	0.56	0.08	0.14	87.0	17.2	60
TRD001389		1.83		<0.005		0.06	7.39	25.8	540	2.55	0.37	0.09	0.10	76.8	15.9	62
TRD001390		1.09		<0.005		0.04	7.88	16.0	570	2.69	0.45	0.07	0.04	87.4	17.2	67
TRD001391		2.04		0.015		0.06	5.44	11.8	390	2.15	0.23	0.03	0.04	69.8	9.4	49
TRD001392		1.97		0.008		0.04	5.62	8.9	390	2.47	0.15	0.03	0.05	67.3	10.0	53
TRD001393		1.64		0.006		0.06	7.51	14.3	530	2.83	0.61	0.11	0.56	90.2	19.0	66
TRD001394		1.36		0.005		0.06	7.86	21.0	550	2.80	0.62	0.10	0.27	100.5	18.0	65
TRD001395		1.73		0.008		0.06	8.24	1.2	210	0.84	0.24	7.06	0.09	26.3	40.7	4
TRD001396		1.73		0.007		0.06	7.34	12.3	510	3.85	0.36	0.05	0.11	83.6	11.1	62
TRD001397		1.58		0.009		0.12	7.29	20.3	520	3.29	0.49	0.02	0.09	67.7	12.5	64
TRD001398		1.41		<0.005		0.06	7.80	20.8	560	2.65	0.32	0.02	0.07	63.9	10.5	66
TRD001399		1.63		0.006		0.07	7.95	16.0	570	2.46	0.48	0.01	0.06	87.3	18.2	69
TRD001400		1.39		0.005		0.03	7.77	7.1	520	2.61	0.39	0.04	0.04	80.7	12.8	64
TRD001401		1.68		<0.005		0.03	7.57	2.7	550	2.71	0.57	0.07	0.03	93.9	16.6	64
TRD001402		2.42		0.006		0.05	5.07	8.0	370	1.84	0.29	0.07	0.03	73.0	9.3	54
TRD001403		2.71		0.013		0.06	4.19	9.9	280	1.32	0.12	0.07	<0.02	61.7	6.6	52
TRD001404		3.24		0.019		0.04	6.88	9.3	530	2.75	0.23	0.04	0.09	80.5	11.6	61
TRD001405		1.56		0.014		0.05	7.25	5.8	510	2.63	0.55	0.10	0.04	78.4	18.2	63
TRD001406		2.58	98.7	0.009		0.05	7.12	9.5	510	2.47	0.45	0.11	0.04	82.0	18.0	62



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001367		7.22	6.6	2.02	7.37	0.10	2.6	0.012	0.79	33.6	23.3	0.30	460	0.78	0.04	7.5
TRD001368		1.46	155.0	7.16	17.20	0.23	2.7	0.092	0.74	12.8	11.6	2.42	1255	0.44	1.48	5.1
TRD001369		19.00	19.7	3.21	17.25	0.18	3.5	0.064	2.68	54.3	33.8	0.72	494	0.50	0.09	13.8
TRD001370		7.67	8.8	2.06	9.92	0.12	2.8	0.020	1.42	36.3	23.5	0.39	288	0.67	0.05	8.7
TRD001371		4.73	7.7	1.69	8.81	0.12	3.1	0.022	1.19	35.4	20.9	0.29	189	0.77	0.04	8.7
TRD001372		9.65	8.2	2.11	11.55	0.12	3.2	0.029	1.57	36.4	25.3	0.46	237	0.88	0.05	10.1
TRD001373		9.70	9.3	2.05	11.40	0.12	3.0	0.034	1.67	38.0	31.7	0.50	244	0.64	0.09	10.0
TRD001374		10.25	8.7	1.98	10.90	0.11	3.2	0.037	1.50	37.6	31.0	0.46	377	0.67	0.07	9.8
TRD001375		8.07	9.9	2.00	10.35	0.11	2.8	0.028	1.43	35.1	31.1	0.46	342	0.67	0.07	9.4
TRD001376		12.25	19.4	2.82	15.45	0.12	3.2	0.057	2.49	39.7	35.7	0.66	472	0.57	0.11	12.3
TRD001377		11.40	15.2	2.09	9.98	0.11	2.9	0.027	1.26	33.3	36.5	0.49	408	0.63	0.07	9.0
TRD001378		11.65	15.2	2.80	13.10	0.11	3.0	0.036	1.74	38.4	30.0	0.73	637	0.76	0.18	11.0
TRD001379		7.52	33.5	3.04	18.65	0.15	3.6	0.067	2.61	46.5	27.6	1.15	354	2.00	0.17	14.5
TRD001380		8.63	35.7	3.18	18.30	0.16	3.2	0.057	2.63	46.6	29.8	0.91	565	1.63	0.16	14.2
TRD001381		10.10	13.4	2.42	11.55	0.10	2.4	0.035	1.35	32.2	40.9	0.58	1340	1.18	0.10	9.2
TRD001382		12.85	12.2	3.75	18.20	0.16	3.3	0.059	2.49	41.8	34.9	0.97	2110	0.81	0.11	14.2
TRD001383		10.70	27.0	3.68	19.75	0.15	3.3	0.070	2.72	45.8	29.6	1.07	981	0.59	0.16	14.6
TRD001384		10.65	36.7	4.14	20.1	0.16	3.0	0.078	2.66	41.1	26.9	1.00	746	0.62	0.16	14.4
TRD001385		11.75	34.2	4.21	15.60	0.09	3.3	0.055	2.33	39.0	29.6	0.98	661	1.67	0.17	12.6
TRD001386		11.60	25.8	3.50	14.30	0.07	3.4	0.043	2.16	37.1	30.4	0.88	702	0.87	0.18	12.8
TRD001387		9.01	33.3	3.83	19.05	0.09	3.5	0.074	3.06	37.0	33.5	1.36	682	0.44	0.21	14.6
TRD001388		8.82	38.8	3.47	18.35	0.09	3.7	0.066	2.92	43.8	32.4	1.29	646	1.40	0.30	15.2
TRD001389		8.48	35.4	3.86	19.05	0.10	3.7	0.084	3.04	36.8	31.8	1.47	703	0.70	0.30	15.6
TRD001390		8.45	37.2	3.66	19.95	0.10	3.7	0.066	3.19	44.6	30.9	1.38	586	0.70	0.28	15.4
TRD001391		8.20	26.4	3.11	13.60	0.09	2.9	0.054	2.01	35.2	29.2	0.84	502	0.97	0.22	11.0
TRD001392		9.48	21.6	3.35	13.00	0.07	3.0	0.052	2.03	33.9	24.1	0.86	665	1.08	0.22	11.7
TRD001393		8.68	42.4	3.66	18.90	0.10	3.9	0.072	3.05	46.2	33.7	1.47	843	1.95	0.34	15.7
TRD001394		7.81	40.4	3.54	19.85	0.17	3.4	0.065	3.13	50.7	31.6	1.39	805	1.43	0.31	15.0
TRD001395		1.51	150.5	7.27	16.10	0.08	3.1	0.071	0.78	13.0	11.8	2.54	1235	0.44	1.51	5.3
TRD001396		6.85	32.6	4.23	18.25	0.11	3.4	0.062	2.77	42.0	33.8	1.38	791	1.47	0.26	14.2
TRD001397		8.91	32.9	4.57	17.55	0.09	3.8	0.064	2.78	34.2	31.0	0.79	739	3.20	0.16	14.4
TRD001398		6.30	33.8	4.09	19.20	0.09	3.5	0.086	2.95	31.6	25.0	0.82	662	0.90	0.14	15.2
TRD001399		6.40	38.7	3.51	19.75	0.10	3.8	0.066	3.07	43.2	30.7	1.25	739	2.89	0.20	16.2
TRD001400		5.03	34.0	3.78	18.90	0.09	3.4	0.068	2.77	40.6	39.5	1.53	955	0.52	0.29	15.2
TRD001401		4.80	40.0	3.27	19.15	0.11	3.7	0.071	2.96	46.2	33.9	1.37	672	0.77	0.25	15.4
TRD001402		4.90	23.4	2.42	12.85	0.09	3.3	0.040	1.91	36.7	23.1	0.81	426	1.92	0.32	11.4
TRD001403		6.73	18.8	2.29	10.20	0.06	3.0	0.030	1.38	30.1	19.8	0.66	482	1.71	0.40	9.8
TRD001404		8.46	29.7	3.64	16.65	0.09	3.4	0.057	2.71	40.9	31.7	1.15	602	0.86	0.25	13.8
TRD001405		5.85	36.4	3.81	18.05	0.10	3.5	0.073	2.89	38.9	33.7	1.39	504	2.54	0.46	13.5
TRD001406		7.50	39.9	3.49	17.85	0.09	3.8	0.058	2.78	40.3	32.0	1.36	735	1.82	0.52	14.6



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001367		22.3	400	5.6	68.1	<0.002	0.01	0.55	4.6	<1	1.4	24.5	0.60	<0.05	9.40	0.227
TRD001368		39.5	410	5.6	28.6	<0.002	0.06	0.17	40.0	1	3.3	155.5	0.33	<0.05	3.35	0.391
TRD001369		29.6	570	8.1	208	<0.002	0.01	0.78	11.4	1	3.8	37.0	1.08	<0.05	18.05	0.390
TRD001370		17.7	380	5.9	101.5	<0.002	0.01	0.65	6.3	<1	2.2	20.4	0.69	<0.05	10.80	0.263
TRD001371		16.7	370	7.0	90.4	<0.002	0.01	0.69	5.6	<1	1.9	16.2	0.70	<0.05	10.85	0.264
TRD001372		21.0	440	10.2	130.5	<0.002	0.01	0.79	7.3	<1	2.5	18.6	0.79	<0.05	12.05	0.300
TRD001373		25.2	390	7.1	117.5	<0.002	0.01	0.71	7.0	1	2.6	19.8	0.80	<0.05	12.10	0.290
TRD001374		26.6	410	7.6	132.5	<0.002	0.01	0.65	7.1	<1	2.4	20.8	0.77	<0.05	12.10	0.286
TRD001375		26.7	410	9.1	116.5	<0.002	0.01	0.61	6.5	<1	2.4	20.6	0.71	<0.05	11.25	0.274
TRD001376		28.8	550	7.9	166.0	<0.002	0.01	0.60	10.1	<1	3.3	29.5	0.97	<0.05	14.95	0.357
TRD001377		24.8	470	8.4	113.5	<0.002	0.01	0.47	6.3	<1	1.8	37.2	0.72	<0.05	11.05	0.270
TRD001378		29.2	600	12.2	149.5	<0.002	0.02	0.68	8.5	<1	2.6	32.7	0.86	<0.05	12.95	0.312
TRD001379		31.7	250	9.9	149.0	0.003	0.33	0.60	12.7	1	3.8	33.2	1.12	0.05	18.30	0.405
TRD001380		38.3	360	10.0	155.5	0.004	0.35	0.84	12.4	1	3.8	37.2	1.10	<0.05	17.60	0.385
TRD001381		38.7	450	7.7	138.5	<0.002	0.04	0.48	7.0	<1	2.1	27.3	0.69	<0.05	10.65	0.257
TRD001382		44.5	610	9.9	209	<0.002	0.01	0.39	12.3	<1	4.1	32.5	1.09	<0.05	17.15	0.379
TRD001383		38.7	470	8.9	176.0	<0.002	0.02	0.38	13.4	1	4.1	37.4	1.16	<0.05	18.60	0.407
TRD001384		30.8	610	10.0	166.0	<0.002	0.03	0.50	14.6	<1	4.1	38.2	1.10	<0.05	18.40	0.383
TRD001385		31.8	630	11.6	161.0	<0.002	0.17	0.56	10.9	1	3.1	31.1	0.97	<0.05	13.95	0.351
TRD001386		29.5	570	12.4	173.0	<0.002	0.07	0.67	9.5	<1	2.9	34.9	0.95	<0.05	13.40	0.341
TRD001387		32.4	410	11.6	177.5	<0.002	0.10	0.48	13.2	<1	3.7	33.0	1.12	<0.05	16.75	0.384
TRD001388		41.2	480	18.0	176.5	0.002	0.29	1.16	12.9	1	3.6	35.3	1.12	0.05	16.40	0.396
TRD001389		40.2	460	15.2	160.0	<0.002	0.25	0.88	13.4	<1	3.9	34.2	1.16	<0.05	14.60	0.404
TRD001390		37.5	400	14.0	178.0	<0.002	0.25	0.75	13.9	1	3.9	36.5	1.20	<0.05	17.05	0.413
TRD001391		29.6	570	14.6	136.5	<0.002	0.08	0.65	9.1	<1	2.7	35.7	0.85	<0.05	11.75	0.305
TRD001392		29.3	640	12.4	157.0	<0.002	0.06	0.66	8.7	<1	2.6	39.6	0.83	<0.05	11.55	0.322
TRD001393		43.0	520	14.5	182.5	0.002	0.44	0.98	13.4	1	3.9	31.4	1.16	0.06	16.05	0.414
TRD001394		38.2	490	13.1	182.0	0.002	0.48	1.18	13.9	1	3.9	30.1	1.17	0.07	20.3	0.412
TRD001395		40.7	400	6.2	39.0	<0.002	0.05	0.16	41.1	<1	2.1	149.0	0.34	<0.05	3.20	0.389
TRD001396		28.8	590	13.0	158.0	<0.002	0.26	1.30	12.8	<1	3.5	31.2	1.06	<0.05	14.90	0.386
TRD001397		21.9	920	13.4	166.5	<0.002	0.26	1.74	12.2	1	4.4	33.5	1.10	0.05	15.60	0.380
TRD001398		18.4	440	11.4	154.0	<0.002	0.06	0.76	13.2	<1	3.9	40.6	1.11	<0.05	15.90	0.393
TRD001399		38.5	270	15.2	176.5	0.003	0.52	0.93	14.0	1	4.0	41.6	1.22	0.05	16.65	0.418
TRD001400		31.4	230	13.0	153.5	<0.002	0.15	0.71	13.0	<1	3.9	44.1	1.16	<0.05	15.80	0.391
TRD001401		47.1	360	10.6	149.5	0.002	0.24	1.02	13.1	<1	4.1	40.6	1.22	<0.05	17.40	0.388
TRD001402		25.4	520	16.2	112.0	<0.002	0.13	0.99	8.6	<1	2.8	30.5	0.89	<0.05	11.50	0.306
TRD001403		19.8	630	14.8	119.5	<0.002	0.03	0.68	6.7	<1	2.0	31.1	0.75	<0.05	9.61	0.274
TRD001404		29.3	440	19.0	168.5	<0.002	0.14	1.20	11.5	<1	3.4	33.8	1.01	<0.05	14.05	0.382
TRD001405		39.6	450	15.4	152.0	0.003	1.09	2.28	12.5	<1	3.5	33.0	1.05	<0.05	14.35	0.381
TRD001406		41.5	510	14.6	166.5	0.002	0.56	1.33	12.4	<1	3.6	36.4	1.10	<0.05	16.30	0.390



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001367		0.53	1.9	32	3.4	20.6	44	90.4
TRD001368		0.22	0.9	219	0.7	23.2	86	99.6
TRD001369		1.04	3.1	75	3.5	35.6	79	120.0
TRD001370		0.48	2.0	43	3.1	25.5	39	93.8
TRD001371		0.42	2.1	39	4.2	24.5	29	108.5
TRD001372		0.62	2.3	50	4.4	31.3	48	108.5
TRD001373		0.53	2.4	48	4.1	27.3	56	121.5
TRD001374		0.66	2.2	47	3.8	26.0	51	105.0
TRD001375		0.57	2.1	45	3.6	24.9	50	119.0
TRD001376		0.85	2.6	68	4.1	28.5	79	108.5
TRD001377		0.57	2.1	42	3.1	22.3	61	116.5
TRD001378		0.82	2.5	60	3.5	26.2	77	99.7
TRD001379		0.77	3.8	104	4.1	28.8	97	117.0
TRD001380		1.00	3.4	109	5.2	28.8	92	110.5
TRD001381		0.84	2.0	49	6.9	20.5	70	81.6
TRD001382		1.08	2.7	78	3.9	28.6	89	116.5
TRD001383		1.02	2.7	87	3.9	26.2	104	111.0
TRD001384		0.91	3.0	91	3.7	23.4	102	109.5
TRD001385		0.86	2.5	83	4.2	23.7	84	111.5
TRD001386		0.81	2.4	72	4.8	22.7	80	115.0
TRD001387		0.90	2.3	84	4.8	21.8	94	117.5
TRD001388		0.97	3.2	105	5.4	26.5	118	126.5
TRD001389		1.00	2.6	98	5.1	24.8	122	128.5
TRD001390		0.94	2.8	102	5.4	27.6	91	122.5
TRD001391		0.65	2.1	62	5.1	21.8	75	95.5
TRD001392		0.70	2.1	66	4.0	23.8	75	105.0
TRD001393		0.96	3.4	129	5.5	28.9	109	130.5
TRD001394		0.97	3.7	112	5.1	29.4	93	114.0
TRD001395		0.21	0.9	224	0.6	24.6	85	113.0
TRD001396		0.78	2.7	88	7.1	25.3	81	120.0
TRD001397		1.02	3.8	119	12.7	27.1	70	127.5
TRD001398		0.82	2.6	95	8.8	20.9	74	117.5
TRD001399		0.95	3.4	103	7.7	27.4	90	130.0
TRD001400		0.71	2.7	89	7.5	30.3	95	117.5
TRD001401		0.72	3.1	101	7.3	31.8	118	122.5
TRD001402		0.53	2.2	63	6.5	22.7	65	108.5
TRD001403		0.55	1.8	47	5.5	20.4	48	103.5
TRD001404		0.82	2.4	81	8.5	24.4	91	119.5
TRD001405		0.93	3.3	96	6.5	24.5	106	119.5
TRD001406		0.90	3.5	102	5.7	27.2	118	126.5



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001407		2.99		0.009		0.04	7.63	9.3	510	2.73	0.27	0.12	0.03	82.4	16.6	65
TRD001408		3.07		0.012		0.02	7.53	3.8	500	2.83	0.20	0.13	0.03	88.1	12.8	65
TRD001409		2.86		0.016		0.05	6.91	33.5	480	2.79	0.39	0.19	0.05	81.1	16.2	63
TRD001410		2.73		0.007		0.05	6.96	18.8	490	2.66	0.52	0.18	0.48	94.2	14.0	65
TRD001411		2.96		0.015		0.08	4.75	12.3	280	1.72	0.33	0.24	0.16	70.2	9.7	52
TRD001412		1.96		0.014		0.05	7.67	14.5	560	2.64	0.31	0.17	0.04	86.8	19.4	69
TRD001413		2.18		0.010		0.02	7.45	5.0	470	2.38	0.29	0.13	0.02	82.0	12.5	64
TRD001414		2.67		<0.005		0.06	7.17	27.9	470	2.73	0.47	0.21	0.29	85.8	19.7	65
TRD001415		2.99		0.007		0.06	7.33	20.3	510	2.69	0.39	0.16	0.19	81.1	19.2	66
TRD001416		1.18		0.008		0.03	7.30	14.6	520	2.76	0.19	0.28	0.08	86.9	19.9	62
TRD001417		1.61		0.009		0.03	7.50	8.2	550	2.58	0.17	0.15	0.03	83.9	16.0	64
TRD001418		0.19		0.008		0.02	8.30	10.0	470	2.22	0.34	0.09	0.03	62.9	9.4	75
TRD001419		0.18		0.008		0.15	8.32	10.7	380	2.07	0.26	0.03	<0.02	60.2	4.2	70
TRD001420		0.88		0.008		0.05	9.36	11.4	580	2.21	0.35	0.01	<0.02	28.6	2.5	70
TRD001421		1.25		0.008		0.05	9.45	12.4	620	2.36	0.39	0.01	<0.02	23.0	2.7	73
TRD001422		1.66		0.007		0.06	8.57	1.2	210	0.75	0.05	7.01	0.07	27.8	40.5	3
TRD001423		0.06		3.28		0.22	7.44	626	690	2.16	0.36	0.78	0.05	76.8	13.8	127
TRD001424		0.06		1.105		0.29	6.98	53.0	130	0.44	0.04	7.21	0.55	11.25	42.0	121
TRD001425		0.06		>10.0	23.5	1.44	6.42	3800	550	2.45	0.66	0.85	0.08	67.8	12.8	100
TRD001426		0.06		0.086		<0.01	0.09	0.8	<10	0.06	0.01	0.01	<0.02	1.84	0.4	5
TRD001427		1.48		0.007		0.05	9.05	12.2	550	2.28	0.39	0.01	<0.02	28.4	3.1	67
TRD001428		1.34		0.008		0.06	8.78	13.4	540	2.44	0.45	0.01	0.02	23.2	3.3	69
TRD001429		1.92		0.005		0.05	9.33	11.0	580	2.50	0.44	0.01	0.02	32.5	2.7	67
TRD001430		2.12		<0.005		0.04	8.07	11.4	470	2.31	0.37	0.01	<0.02	43.1	1.5	59
TRD001431		0.93		0.015		0.01	9.22	7.6	640	2.49	0.21	0.01	<0.02	53.3	1.6	73
TRD001432		1.30		0.005		0.02	7.93	5.8	480	2.24	0.13	0.01	<0.02	86.2	1.7	58
TRD001433		1.53		<0.005		0.04	7.79	13.4	460	2.14	0.26	0.01	<0.02	76.8	1.6	61
TRD001434		1.26		<0.005		0.06	8.55	15.0	500	2.56	0.48	0.01	<0.02	116.0	8.2	66
TRD001435		1.27		0.005		0.13	8.78	13.6	600	3.19	0.50	0.01	0.06	171.0	46.5	72
TRD001436		1.55		0.011		0.05	8.31	17.1	490	2.76	0.53	0.01	0.03	100.5	10.6	64
TRD001437		1.05		0.007		0.05	7.45	13.3	490	2.40	0.38	0.01	0.03	80.2	8.6	66
TRD001438		1.49		0.006		0.07	8.37	13.5	490	2.46	0.50	0.01	0.06	112.0	8.8	63
TRD001439		1.61		0.007		0.06	8.70	17.8	510	3.40	0.53	0.01	0.09	125.5	7.6	60
TRD001440		1.76		0.005		0.03	7.26	6.9	450	3.00	0.28	0.01	0.05	166.5	11.0	47
TRD001441		1.47		0.005		0.03	6.95	10.2	430	2.67	0.17	0.01	0.04	87.7	10.8	58
TRD001442		2.20		<0.005		0.03	6.75	18.8	390	2.78	0.21	0.01	0.14	90.1	8.9	55
TRD001443		1.32		0.007		0.06	7.67	15.2	460	2.95	0.49	0.01	0.83	97.4	11.9	66
TRD001444		2.31		0.006		0.04	8.19	12.2	480	3.02	0.29	0.01	0.17	99.9	11.6	65
TRD001445		1.97		<0.005		0.03	5.88	14.8	270	2.64	0.16	0.01	0.12	85.4	5.9	48
TRD001446		2.38	97.8	<0.005		0.03	7.86	6.0	470	3.04	0.27	0.01	0.23	88.8	6.0	63



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001407		6.78	42.7	4.04	19.60	0.10	3.6	0.076	2.92	40.8	35.7	1.57	839	1.11	0.50	15.0
TRD001408		7.03	16.4	4.25	19.15	0.12	3.4	0.062	2.89	43.9	37.4	1.63	885	0.66	0.47	15.0
TRD001409		9.98	28.9	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
TRD001410		10.75	39.0	3.27	17.70	0.12	3.9	0.057	2.85	48.5	30.4	1.58	875	2.85	0.60	14.0
TRD001411		6.76	33.7	2.39	11.65	0.08	3.0	0.036	1.72	34.9	22.5	0.96	551	2.49	0.73	10.5
TRD001412		8.80	41.8	3.60	19.05	0.10	3.8	0.066	3.30	42.5	28.5	1.40	846	1.03	0.49	15.8
TRD001413		8.14	29.4	4.57	17.60	0.11	3.3	0.056	2.85	40.0	29.8	1.57	1075	0.69	0.46	15.0
TRD001414		9.60	42.0	3.68	18.95	0.09	3.6	0.071	2.78	42.5	32.4	1.41	1140	1.77	0.64	15.2
TRD001415		7.90	42.6	3.69	19.15	0.10	3.7	0.074	2.90	39.2	33.4	1.39	1125	1.66	0.57	16.0
TRD001416		9.10	23.6	3.69	18.90	0.10	3.7	0.058	2.77	43.9	37.0	1.37	1050	2.46	0.88	15.1
TRD001417		8.94	15.5	3.91	19.65	0.13	3.8	0.074	2.90	39.1	31.8	1.40	1010	1.06	0.72	15.6
TRD001418		7.86	19.5	4.07	20.6	0.08	3.7	0.083	2.45	31.1	28.2	0.87	588	1.28	0.39	16.2
TRD001419		5.27	20.4	2.96	19.05	0.05	4.6	0.064	1.71	31.5	15.4	0.35	699	1.00	0.14	15.1
TRD001420		4.70	21.5	2.14	22.7	0.05	3.7	0.082	2.78	14.9	11.2	0.26	194	0.29	0.10	16.5
TRD001421		4.51	24.2	2.31	22.7	0.06	3.8	0.073	3.01	11.6	11.2	0.27	162	0.24	0.11	16.6
TRD001422		1.51	148.5	7.38	17.65	0.07	2.7	0.046	0.79	13.8	11.2	2.53	1260	0.44	1.54	5.3
TRD001423		8.65	29.8	3.98	18.75	0.11	3.7	0.073	2.80	38.6	39.7	1.55	342	0.69	0.70	14.3
TRD001424		0.80	166.0	7.81	15.40	0.06	1.5	0.075	0.36	4.9	10.8	3.81	1340	0.90	1.68	3.3
TRD001425		8.86	54.6	3.43	16.65	0.10	2.9	0.060	2.57	35.4	37.4	1.27	354	1.38	0.48	11.9
TRD001426		0.10	4.6	0.34	0.20	<0.05	0.2	<0.005	0.01	0.9	15.4	<0.01	32	0.62	0.01	1.0
TRD001427		4.49	27.0	2.43	22.1	0.05	3.9	0.082	2.74	15.0	11.5	0.29	228	0.33	0.12	16.6
TRD001428		4.69	36.3	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
TRD001429		4.93	36.0	2.04	22.7	0.05	4.1	0.078	3.04	17.3	10.6	0.27	194	0.20	0.10	16.9
TRD001430		4.32	29.3	1.59	20.3	0.06	4.3	0.058	2.53	22.7	10.1	0.22	144	0.21	0.08	16.3
TRD001431		5.62	25.7	2.11	23.1	0.07	4.1	0.077	3.25	27.0	11.4	0.29	84	0.30	0.10	17.8
TRD001432		4.99	19.6	1.17	20.8	0.08	4.8	0.068	2.60	41.2	10.4	0.25	101	0.42	0.08	17.4
TRD001433		5.70	28.4	1.38	19.25	0.06	4.3	0.067	2.51	32.1	9.7	0.25	135	0.32	0.08	16.1
TRD001434		5.46	46.5	2.61	21.1	0.05	3.7	0.080	2.83	21.3	12.6	0.26	381	0.24	0.09	16.2
TRD001435		5.53	60.0	4.02	22.4	0.11	3.4	0.082	2.93	41.2	19.5	0.27	1035	0.28	0.10	16.4
TRD001436		5.34	38.4	2.64	21.1	0.15	3.6	0.066	2.66	63.6	22.1	0.50	770	0.34	0.08	15.9
TRD001437		5.65	28.2	2.43	21.3	0.14	3.9	0.066	2.76	54.8	21.6	0.65	580	0.43	0.09	16.9
TRD001438		6.38	34.8	2.73	21.1	0.17	3.4	0.082	2.74	78.2	24.7	0.76	834	0.32	0.08	15.5
TRD001439		10.10	43.5	2.76	23.9	0.16	5.5	0.094	3.10	65.1	24.4	0.40	572	0.48	0.09	27.3
TRD001440		7.06	25.1	2.36	26.5	0.16	15.0	0.109	2.74	67.0	16.8	0.30	363	1.08	0.08	86.2
TRD001441		6.45	30.3	2.87	18.65	0.08	4.6	0.065	2.53	40.1	15.7	0.27	302	0.87	0.07	26.1
TRD001442		7.81	26.6	2.42	17.15	0.11	3.6	0.060	2.34	43.6	22.2	0.39	232	0.80	0.06	16.5
TRD001443		11.60	39.8	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
TRD001444		10.70	31.6	2.42	20.8	0.11	3.7	0.083	3.01	51.9	25.5	0.68	320	0.67	0.08	15.9
TRD001445		8.07	19.5	1.98	15.45	0.10	5.0	0.042	1.81	46.8	20.2	0.44	206	1.22	0.05	13.6
TRD001446		7.31	26.3	2.30	20.1	0.13	3.8	0.066	2.84	49.4	24.8	0.76	332	0.90	0.08	16.2



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001407		37.8	470	12.8	163.5	<0.002	0.28	0.94	13.6	<1	4.0	35.5	1.14	0.05	16.05	0.400
TRD001408		33.0	490	11.8	166.5	0.002	0.13	0.67	13.4	<1	3.7	34.3	1.10	<0.05	15.85	0.390
TRD001409		40.2	500	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
TRD001410		37.8	580	12.4	182.0	0.003	0.66	0.75	12.2	1	3.6	40.2	1.04	<0.05	16.00	0.381
TRD001411		26.6	760	20.2	120.0	<0.002	0.22	0.61	7.8	1	2.3	59.0	0.79	<0.05	10.95	0.283
TRD001412		40.2	560	14.0	177.5	<0.002	0.07	0.53	13.2	<1	4.1	47.2	1.16	<0.05	15.25	0.417
TRD001413		31.1	490	9.4	169.0	<0.002	0.09	0.72	12.3	<1	3.7	34.3	1.06	<0.05	14.50	0.399
TRD001414		41.5	520	20.5	165.5	0.002	0.23	1.46	13.1	<1	3.7	54.5	1.14	<0.05	14.05	0.401
TRD001415		42.7	540	17.7	168.5	<0.002	0.19	1.46	13.2	1	3.9	43.1	1.16	<0.05	15.15	0.408
TRD001416		38.5	540	19.4	186.5	0.002	0.07	1.08	13.3	<1	3.4	84.1	1.13	<0.05	15.70	0.393
TRD001417		36.6	500	13.0	181.5	<0.002	0.03	0.90	13.7	<1	4.0	43.9	1.18	<0.05	15.65	0.396
TRD001418		30.0	340	17.2	162.5	<0.002	0.06	1.16	13.2	1	4.1	39.2	1.15	0.05	17.80	0.404
TRD001419		21.0	180	29.2	106.0	<0.002	0.03	1.28	11.0	1	3.5	45.3	1.17	<0.05	24.6	0.433
TRD001420		18.2	100	16.8	123.5	<0.002	0.03	0.84	14.7	1	4.5	36.9	1.30	<0.05	23.6	0.474
TRD001421		19.6	90	15.6	134.5	<0.002	0.02	0.83	15.7	1	4.7	36.3	1.32	<0.05	23.1	0.481
TRD001422		39.4	400	5.6	33.3	<0.002	0.04	0.21	41.0	1	2.7	155.0	0.34	<0.05	3.59	0.412
TRD001423		60.0	580	18.9	162.0	<0.002	0.15	620	13.6	<1	3.8	102.0	1.05	<0.05	13.75	0.485
TRD001424		84.8	410	20.0	11.4	<0.002	0.32	1.53	41.6	1	0.9	186.5	0.21	0.09	0.80	0.591
TRD001425		44.6	500	31.1	162.5	<0.002	0.78	3640	11.5	1	3.4	103.5	0.87	<0.05	11.85	0.376
TRD001426		2.6	10	0.5	0.4	<0.002	0.01	0.30	0.2	<1	0.5	0.7	0.06	<0.05	0.57	0.032
TRD001427		21.2	120	16.5	129.5	<0.002	0.02	0.85	14.4	1	4.5	39.5	1.29	<0.05	22.3	0.470
TRD001428		23.4	100	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
TRD001429		23.3	110	15.4	142.0	<0.002	0.01	0.70	15.6	1	4.4	39.4	1.33	<0.05	22.3	0.483
TRD001430		20.3	150	15.3	123.5	<0.002	0.01	0.76	14.0	1	4.0	54.5	1.25	<0.05	20.9	0.454
TRD001431		15.5	210	15.1	152.5	<0.002	0.02	1.80	19.0	<1	5.1	54.7	1.34	<0.05	23.8	0.496
TRD001432		18.9	170	13.8	132.5	<0.002	0.01	1.14	16.1	<1	4.3	54.6	1.33	<0.05	22.4	0.489
TRD001433		17.2	150	13.4	129.0	<0.002	0.01	1.16	14.8	<1	3.9	45.7	1.24	<0.05	21.0	0.471
TRD001434		24.1	120	20.7	140.5	<0.002	0.01	1.43	14.5	<1	4.4	44.1	1.26	<0.05	20.3	0.471
TRD001435		40.0	120	24.6	142.0	<0.002	0.01	1.52	16.0	<1	4.5	41.5	1.26	0.06	20.5	0.462
TRD001436		24.8	120	23.8	134.5	<0.002	0.01	1.44	13.9	<1	4.3	45.3	1.26	0.05	19.95	0.453
TRD001437		23.2	110	20.5	126.0	<0.002	0.01	1.25	15.1	<1	4.6	37.3	1.26	<0.05	15.50	0.480
TRD001438		25.0	100	22.7	148.0	<0.002	0.01	1.50	13.6	<1	4.8	34.6	1.23	0.05	19.65	0.441
TRD001439		24.3	120	23.7	174.0	<0.002	0.01	1.74	14.0	1	5.6	44.3	2.01	<0.05	25.0	0.427
TRD001440		18.5	140	16.6	147.0	<0.002	0.01	1.27	9.7	<1	8.0	35.9	5.74	<0.05	40.3	0.354
TRD001441		17.6	90	10.5	141.0	<0.002	0.01	1.41	11.6	<1	4.2	30.8	1.61	<0.05	20.2	0.377
TRD001442		23.9	110	11.1	135.0	<0.002	0.01	1.30	11.0	<1	3.5	38.8	1.19	<0.05	17.45	0.370
TRD001443		29.1	100	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
TRD001444		26.0	110	11.5	165.0	<0.002	0.05	1.58	13.7	<1	4.2	42.6	1.25	<0.05	21.1	0.444
TRD001445		19.9	110	11.0	117.5	<0.002	0.01	0.98	9.5	1	2.8	35.4	1.14	<0.05	18.05	0.382
TRD001446		20.9	140	10.0	140.0	<0.002	0.01	0.92	13.1	<1	4.1	56.0	1.26	<0.05	18.75	0.446



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001407		0.83	2.8	94	5.5	26.8	105	121.0
TRD001408		0.85	2.5	88	5.5	27.7	81	114.0
TRD001409		0.98	3.1	92	4.9	29.1	105	120.0
TRD001410		0.99	3.6	137	4.4	34.2	136	135.0
TRD001411		0.67	2.3	68	7.5	22.2	75	99.8
TRD001412		0.89	2.8	89	5.2	26.1	96	127.0
TRD001413		0.81	2.1	85	3.9	25.9	90	118.5
TRD001414		0.98	2.9	104	6.2	28.1	117	122.5
TRD001415		0.94	2.9	97	7.0	27.5	112	130.0
TRD001416		1.00	3.4	107	5.3	30.5	78	121.0
TRD001417		0.89	2.6	93	3.9	26.3	80	129.5
TRD001418		0.76	2.4	100	4.7	22.3	59	126.0
TRD001419		1.30	2.6	89	3.5	17.1	62	181.0
TRD001420		0.46	2.5	106	3.3	12.1	113	148.0
TRD001421		0.47	2.6	109	3.3	11.6	119	145.5
TRD001422		0.20	0.9	232	0.5	24.2	86	118.0
TRD001423		0.79	2.4	105	2.9	18.2	104	146.0
TRD001424		0.18	0.2	267	25.4	20.7	137	58.2
TRD001425		0.80	2.3	83	7.8	12.9	94	124.0
TRD001426		<0.02	0.1	2	0.2	0.6	3	8.6
TRD001427		0.43	2.7	102	4.5	13.3	104	151.0
TRD001428		0.45	2.9	100	3.9	11.7	86	148.5
TRD001429		0.44	3.1	103	3.7	12.9	59	150.0
TRD001430		0.41	3.1	87	3.6	14.2	22	166.5
TRD001431		0.53	3.4	106	4.2	14.8	18	162.5
TRD001432		0.45	3.4	93	3.9	17.4	16	186.5
TRD001433		0.44	3.3	92	4.2	15.7	20	170.0
TRD001434		0.58	3.3	97	3.5	15.4	65	148.0
TRD001435		0.92	3.4	103	3.0	26.6	133	136.0
TRD001436		0.49	2.9	95	3.0	35.8	162	140.0
TRD001437		0.52	3.0	98	3.1	31.2	164	152.5
TRD001438		0.54	3.0	94	3.1	41.1	185	141.0
TRD001439		0.65	4.0	90	3.6	41.8	133	209
TRD001440		0.65	5.5	64	4.7	68.8	76	>500
TRD001441		0.62	3.4	78	5.9	27.7	70	183.0
TRD001442		0.64	2.6	76	9.5	30.1	75	140.0
TRD001443		0.78	2.9	89	8.1	28.6	106	143.0
TRD001444		0.74	3.0	92	6.6	28.1	97	146.0
TRD001445		0.55	2.9	63	4.1	23.4	76	163.5
TRD001446		0.52	3.0	90	4.5	33.3	95	150.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001447		1.84		0.009		0.03	5.05	7.7	270	2.12	0.17	0.01	0.17	107.5	9.7	43
TRD001448		1.97		0.006		0.02	7.29	5.7	410	3.26	0.32	0.01	0.08	160.0	15.6	45
TRD001449		2.07		0.005		0.02	4.25	12.3	160	1.84	0.08	0.01	0.08	72.7	14.6	42
TRD001450		1.43		0.005		0.02	8.72	44.0	520	3.67	0.26	0.01	0.28	91.3	3.9	65
TRD001451		1.77		<0.005		0.02	4.08	10.2	210	1.53	0.10	0.01	0.12	70.8	1.4	36
TRD001452		1.70		0.007		0.01	7.00	15.8	430	2.52	0.43	0.01	0.17	94.3	1.1	61
TRD001453		1.52		0.006		0.08	6.81	35.6	370	2.66	0.38	0.01	0.07	95.5	4.0	63
TRD001454		1.32		0.006		0.11	6.94	16.0	400	2.80	0.37	0.01	0.07	88.2	8.6	65
TRD001455		1.95		0.006		0.12	6.21	21.7	370	2.18	0.33	0.01	0.55	84.5	9.7	61
TRD001456		1.35		0.008		0.12	6.81	20.0	400	2.49	0.35	0.01	0.24	91.6	11.9	68
TRD001457		1.47		0.008		0.07	9.69	1.6	240	0.91	0.06	7.89	0.10	32.1	45.4	4
TRD001458		1.58		0.010		0.12	7.35	11.3	440	2.91	0.36	0.01	0.47	90.4	12.2	70
TRD001459		1.42		0.008		0.11	6.12	13.0	370	3.28	0.32	0.01	0.83	77.0	10.8	61
TRD001460		1.63		0.008		0.11	5.82	12.8	340	2.73	0.29	0.01	0.54	78.1	10.4	59
TRD001461		1.38		0.010		0.14	6.35	18.6	390	2.46	0.36	0.01	0.64	83.1	12.0	65
TRD001462		1.44		0.010		0.12	7.31	15.4	440	3.11	0.41	0.01	0.11	83.0	12.5	68
TRD001463		2.17		0.012		0.14	7.59	14.0	460	3.32	0.44	0.01	0.09	84.3	12.4	73
TRD001464		1.56		0.010		0.14	7.68	19.2	460	3.01	0.48	0.01	0.09	83.0	12.8	74
TRD001465		1.86		0.014		0.13	7.97	18.1	470	3.46	0.43	0.01	0.10	90.2	10.8	74
TRD001466		1.84		0.008		0.15	7.76	30.0	450	4.29	0.45	0.01	0.10	87.7	12.1	76
TRD001467		1.43		0.007		0.10	7.56	20.4	430	4.01	0.39	0.01	0.09	83.9	10.5	75
TRD001468		1.61		0.011		0.13	7.57	17.8	450	2.81	0.44	0.01	0.09	81.9	11.8	73
TRD001469		1.65		<0.005		0.11	7.58	20.7	450	3.73	0.38	0.01	0.13	87.4	10.9	73
TRD001470		1.61		0.012		0.12	5.88	10.8	340	2.76	0.33	0.01	0.71	78.7	9.8	61
TRD001471		0.81		0.010		0.09	6.29	10.5	370	3.27	0.30	0.01	0.76	78.3	8.7	64
TRD001472		2.61		0.006		0.07	7.09	10.9	400	2.88	0.34	0.01	0.41	83.7	9.5	66
TRD001473		1.36		<0.005		0.09	6.68	15.8	400	4.27	0.30	0.01	0.20	81.8	10.0	69
TRD001474		1.35		0.008		0.09	7.21	17.9	400	3.15	0.30	0.01	0.45	87.7	10.4	73
TRD001475		1.11		0.009		0.13	6.58	17.2	350	3.42	0.38	0.02	0.67	83.3	11.8	67
TRD001476		0.73		0.007		0.11	6.91	21.6	360	2.74	0.33	0.01	0.14	83.3	11.5	66
TRD001477		0.52		0.015		0.15	7.23	29.6	390	2.77	0.43	0.01	0.16	86.1	12.2	74
TRD001478		3.47		0.015		0.14	7.24	54.0	410	2.62	0.49	0.01	0.23	86.3	13.2	75
TRD001479		0.95		0.008		0.08	4.79	72.9	240	2.20	0.25	0.01	0.46	56.4	9.5	47
TRD001480		1.77		<0.005		0.03	2.75	12.0	150	0.97	0.11	<0.01	0.66	42.1	6.3	34
TRD001481		1.45		<0.005		0.03	4.66	15.5	300	1.46	0.17	0.01	0.65	71.9	9.1	48
TRD001482		1.14		0.005		0.08	5.03	38.8	290	1.58	0.33	0.01	0.69	100.0	9.3	37
TRD001483		1.60		0.006		0.06	4.36	37.9	210	1.36	0.30	0.01	0.33	75.2	8.9	31
TRD001484		1.78		0.013		0.06	6.23	51.6	380	2.12	0.34	0.01	0.10	84.8	13.5	46
TRD001485		1.34		0.008		0.06	7.54	35.1	500	2.41	0.37	0.01	0.11	92.7	14.4	52
TRD001486		1.52	94.1	0.009		0.06	7.88	1.1	210	0.77	0.04	6.83	0.08	27.2	39.4	3



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Project: Panama Project

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001447		6.54	18.7	1.62	12.90	0.09	2.9	0.051	1.53	33.9	20.8	0.25	339	1.70	0.04	22.8
TRD001448		9.00	19.9	1.79	29.3	0.13	15.5	0.133	2.53	51.1	22.1	0.27	415	1.31	0.07	98.5
TRD001449		5.05	14.6	1.85	11.10	0.07	3.9	0.031	1.11	31.3	15.9	0.16	233	1.32	0.03	20.0
TRD001450		9.27	19.0	1.73	22.6	0.11	4.4	0.086	3.23	48.0	25.9	0.32	76	1.23	0.09	28.0
TRD001451		4.63	6.8	0.70	10.05	0.07	3.2	0.031	1.21	36.0	17.6	0.16	48	0.74	0.03	11.5
TRD001452		7.64	24.7	1.26	18.30	0.10	4.0	0.058	2.78	49.2	41.7	0.31	57	2.92	0.07	17.1
TRD001453		10.55	36.2	2.33	17.00	0.09	4.4	0.061	2.77	48.7	53.4	0.35	61	6.58	0.07	15.2
TRD001454		12.25	34.8	2.04	17.50	0.09	3.3	0.069	2.84	46.2	59.8	0.36	60	2.24	0.08	13.5
TRD001455		9.90	29.8	2.31	15.50	0.10	3.3	0.053	2.49	44.1	62.6	0.32	77	3.13	0.06	11.7
TRD001456		10.25	30.4	2.72	16.65	0.10	3.6	0.065	2.76	48.5	70.5	0.36	83	3.17	0.07	12.6
TRD001457		1.63	166.0	8.26	19.40	0.09	3.1	0.074	0.89	15.5	13.0	2.83	1405	0.50	1.73	5.8
TRD001458		10.50	35.6	3.14	18.70	0.12	3.5	0.063	3.01	48.2	101.5	0.39	69	2.15	0.08	13.1
TRD001459		9.63	29.8	4.11	15.40	0.10	2.9	0.066	2.51	40.0	90.2	0.33	68	1.94	0.07	9.6
TRD001460		9.12	29.8	2.77	14.90	0.10	3.0	0.048	2.33	39.7	61.7	0.31	60	2.14	0.07	10.2
TRD001461		8.33	34.2	2.85	15.45	0.10	3.3	0.073	2.50	41.2	48.1	0.32	73	3.53	0.08	11.2
TRD001462		9.08	41.5	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
TRD001463		9.43	45.2	3.87	18.60	0.11	3.1	0.064	2.93	44.7	49.8	0.36	45	2.46	0.09	11.9
TRD001464		8.45	49.4	3.45	18.00	0.11	2.9	0.081	3.01	42.9	51.3	0.37	51	2.41	0.09	12.0
TRD001465		10.15	49.4	3.46	20.1	0.11	3.2	0.079	3.10	47.9	56.1	0.38	51	2.47	0.09	12.2
TRD001466		11.10	47.4	4.41	19.45	0.11	3.2	0.088	2.96	47.1	56.0	0.37	55	2.24	0.09	11.7
TRD001467		10.65	42.5	4.60	18.20	0.11	3.0	0.068	2.89	43.4	51.7	0.36	63	2.19	0.09	11.6
TRD001468		9.13	46.4	3.63	18.05	0.11	3.0	0.065	2.98	41.1	55.4	0.36	56	2.54	0.09	11.2
TRD001469		12.00	41.7	4.02	19.25	0.10	3.1	0.066	3.01	46.1	71.5	0.37	56	2.43	0.09	12.2
TRD001470		9.53	37.4	2.72	14.60	0.10	3.2	0.061	2.23	39.3	47.7	0.32	80	4.12	0.07	10.3
TRD001471		9.46	31.0	2.97	15.40	0.10	3.2	0.066	2.33	40.3	46.5	0.34	122	2.40	0.09	11.5
TRD001472		8.41	31.3	2.55	16.50	0.12	3.5	0.057	2.55	40.3	41.1	0.33	120	1.96	0.08	13.9
TRD001473		9.90	32.5	4.02	15.95	0.11	3.2	0.053	2.55	41.5	46.1	0.32	91	2.29	0.08	11.5
TRD001474		11.80	31.4	2.94	17.75	0.12	3.4	0.071	2.66	44.6	53.9	0.35	76	2.00	0.08	13.4
TRD001475		9.53	35.4	4.27	16.10	0.09	3.4	0.063	2.26	42.7	40.5	0.34	125	3.54	0.09	11.9
TRD001476		10.05	33.3	3.82	17.00	0.11	3.4	0.054	2.43	43.8	40.2	0.32	100	3.14	0.07	12.5
TRD001477		13.55	35.0	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
TRD001478		12.45	35.8	2.96	18.40	0.11	3.7	0.075	3.03	45.4	37.4	0.37	61	3.96	0.08	13.2
TRD001479		7.84	25.4	2.93	11.80	0.07	2.4	0.043	1.79	30.6	24.6	0.22	122	3.25	0.05	9.1
TRD001480		3.34	11.8	0.99	6.93	<0.05	2.0	0.017	1.03	20.8	12.9	0.12	71	2.31	0.03	8.2
TRD001481		4.23	18.1	0.74	12.10	0.07	3.6	0.044	1.89	35.7	15.4	0.21	73	1.45	0.06	17.1
TRD001482		5.45	18.2	0.83	15.60	0.10	8.0	0.070	1.88	48.0	21.7	0.20	73	1.92	0.07	38.9
TRD001483		6.04	17.2	0.70	11.95	0.10	2.9	0.041	1.52	36.2	20.1	0.16	62	26.2	0.04	16.4
TRD001484		7.99	25.0	1.74	16.70	0.11	1.9	0.047	2.24	43.3	39.0	0.53	231	28.2	0.06	3.0
TRD001485		8.54	26.3	1.61	19.15	0.13	2.2	0.059	2.81	46.3	35.2	0.57	226	15.65	0.07	4.8
TRD001486		1.23	143.0	7.08	16.60	0.10	2.7	0.057	0.73	12.6	10.8	2.37	1220	0.41	1.51	5.2



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001447		21.5	110	10.4	95.1	<0.002	0.01	0.63	7.9	<1	2.6	31.9	0.85	<0.05	12.70	0.310
TRD001448		20.7	160	17.4	141.0	<0.002	0.01	0.97	9.4	<1	7.7	35.2	6.30	0.05	43.8	0.351
TRD001449		19.4	90	8.1	88.4	<0.002	0.01	0.69	6.1	<1	2.1	18.4	1.16	<0.05	13.55	0.274
TRD001450		14.8	100	10.3	176.0	<0.002	0.01	1.67	14.3	<1	4.6	37.3	1.63	0.06	22.6	0.451
TRD001451		8.5	120	8.7	84.0	<0.002	0.01	1.31	6.0	<1	2.0	28.4	0.82	<0.05	11.70	0.275
TRD001452		4.2	120	13.8	167.0	<0.002	0.01	3.98	11.3	1	3.9	46.3	1.28	0.05	18.70	0.400
TRD001453		11.7	160	18.4	179.5	0.003	0.53	5.22	11.1	<1	3.6	75.6	1.15	0.05	21.3	0.384
TRD001454		22.6	200	22.3	189.0	0.003	0.94	7.11	11.9	1	3.6	64.6	0.97	0.05	16.90	0.359
TRD001455		24.5	170	22.0	165.0	0.002	1.11	6.78	10.2	<1	3.2	57.3	0.84	0.05	15.50	0.318
TRD001456		29.1	200	25.0	184.0	0.002	1.34	8.27	11.3	<1	3.5	63.3	0.93	0.05	17.10	0.347
TRD001457		43.0	470	6.1	39.9	<0.002	0.05	0.17	46.0	1	1.3	173.5	0.38	<0.05	4.07	0.459
TRD001458		31.4	240	23.2	201	0.002	1.36	6.53	12.2	1	3.8	51.3	0.95	0.05	17.35	0.353
TRD001459		31.7	350	20.3	171.5	0.002	1.26	6.27	10.2	1	3.3	49.2	0.68	0.05	14.30	0.276
TRD001460		28.8	290	20.8	161.5	0.002	1.16	4.68	9.8	1	3.1	40.4	0.75	<0.05	14.60	0.288
TRD001461		30.6	270	26.9	162.0	0.002	1.63	5.68	10.1	<1	3.4	29.4	0.84	0.06	16.15	0.318
TRD001462		32.9	480	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
TRD001463		32.7	590	22.7	182.0	<0.002	1.47	6.67	12.6	1	3.9	30.8	0.87	0.07	16.75	0.339
TRD001464		32.4	530	24.7	190.0	0.003	1.39	6.75	12.2	1	4.0	32.6	0.89	0.05	16.00	0.357
TRD001465		28.5	550	21.7	185.5	0.003	1.27	6.11	13.5	1	4.1	33.4	0.93	0.05	17.60	0.358
TRD001466		35.9	660	25.5	188.5	0.002	1.35	7.19	13.4	1	3.9	34.3	0.92	0.09	17.20	0.339
TRD001467		34.0	750	22.0	181.5	0.002	1.05	6.43	12.5	1	3.7	36.4	0.86	0.06	16.70	0.335
TRD001468		29.8	570	22.1	189.5	0.002	1.32	6.10	12.2	1	3.9	37.0	0.84	0.06	15.75	0.332
TRD001469		33.5	640	25.2	190.0	0.002	1.29	6.94	12.7	1	3.8	36.3	0.88	0.07	16.65	0.352
TRD001470		26.8	320	21.9	147.5	0.002	1.31	5.63	9.7	<1	3.0	32.9	0.77	<0.05	14.65	0.297
TRD001471		28.6	400	22.5	151.5	<0.002	0.87	5.19	10.3	<1	3.1	34.5	0.84	0.05	15.45	0.317
TRD001472		28.2	340	22.2	165.5	0.002	0.68	4.15	11.1	<1	3.3	40.8	1.03	<0.05	16.70	0.381
TRD001473		37.5	580	19.3	162.0	<0.002	1.02	8.05	10.6	1	3.3	45.1	0.83	<0.05	15.20	0.328
TRD001474		30.5	360	19.9	178.5	<0.002	1.13	5.37	11.7	<1	3.4	38.3	1.00	<0.05	16.85	0.374
TRD001475		38.2	620	29.9	154.0	0.002	1.42	7.64	10.7	<1	3.2	42.3	0.87	<0.05	15.85	0.335
TRD001476		29.5	550	22.4	163.5	<0.002	1.42	6.36	12.2	1	3.3	62.0	0.92	0.05	16.30	0.356
TRD001477		25.0	270	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
TRD001478		26.6	270	26.1	208	0.003	1.90	7.29	12.4	1	3.9	59.8	0.95	0.08	17.50	0.354
TRD001479		25.1	170	17.4	123.5	0.002	0.99	6.39	8.3	1	2.2	25.5	0.64	<0.05	10.75	0.232
TRD001480		13.9	60	7.9	76.3	<0.002	0.25	2.63	4.0	<1	1.4	14.6	0.54	<0.05	7.01	0.180
TRD001481		19.2	80	11.5	123.5	<0.002	0.15	3.45	6.9	<1	2.7	31.9	1.01	<0.05	12.50	0.311
TRD001482		19.6	110	24.2	118.0	<0.002	0.30	4.45	6.6	<1	4.0	47.6	3.04	<0.05	24.4	0.281
TRD001483		16.4	110	22.1	116.0	0.002	0.19	2.45	6.2	<1	2.4	49.8	0.77	<0.05	14.10	0.118
TRD001484		27.3	120	21.4	148.0	0.003	0.52	2.62	9.8	<1	2.7	68.4	0.05	<0.05	15.00	0.048
TRD001485		28.2	130	21.9	176.5	<0.002	0.35	2.99	11.7	<1	3.5	77.1	0.20	<0.05	16.85	0.066
TRD001486		37.4	410	5.3	21.2	<0.002	0.05	0.13	39.8	<1	1.1	151.0	0.33	<0.05	3.39	0.397



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001447		0.48	2.4	55	2.9	25.3	61	131.5
TRD001448		0.80	5.7	62	3.6	70.4	52	>500
TRD001449		0.52	2.3	46	3.3	23.7	56	153.5
TRD001450		0.72	3.3	95	7.1	26.0	43	181.5
TRD001451		0.39	2.0	43	3.6	20.2	13	120.5
TRD001452		0.74	2.7	84	3.8	22.1	15	153.0
TRD001453		0.95	4.6	91	3.8	19.0	30	170.5
TRD001454		1.10	3.3	100	3.5	16.0	36	132.0
TRD001455		0.94	3.0	84	3.3	17.0	37	135.0
TRD001456		1.07	3.4	94	3.6	19.5	43	147.5
TRD001457		0.21	1.0	255	0.5	27.4	96	131.5
TRD001458		1.21	3.0	105	3.0	18.4	54	140.0
TRD001459		1.02	2.6	84	2.7	19.1	91	117.5
TRD001460		0.99	2.4	81	2.8	16.9	59	121.5
TRD001461		1.02	2.4	87	2.9	17.3	38	131.0
TRD001462		0.98	2.6	113	3.0	16.2	41	131.0
TRD001463		1.05	2.5	117	3.1	16.6	45	124.5
TRD001464		1.06	2.6	118	3.0	16.2	39	123.5
TRD001465		1.12	2.7	122	3.0	15.9	41	126.5
TRD001466		1.21	2.8	117	3.1	21.2	107	127.0
TRD001467		1.10	2.8	114	3.2	19.1	132	125.5
TRD001468		1.08	2.7	117	3.1	16.4	62	125.5
TRD001469		1.12	2.7	114	3.3	22.7	111	126.5
TRD001470		0.95	2.3	79	2.8	19.9	56	127.0
TRD001471		0.94	2.5	87	3.2	20.7	84	129.0
TRD001472		0.92	2.9	95	3.6	18.6	73	141.5
TRD001473		0.94	2.7	92	3.5	18.2	130	130.5
TRD001474		1.03	2.8	101	4.1	17.2	72	134.0
TRD001475		0.97	2.9	90	4.8	22.3	102	132.5
TRD001476		0.99	3.2	95	5.6	23.5	61	141.5
TRD001477		1.27	4.0	97	4.6	21.3	38	148.0
TRD001478		1.27	4.1	98	4.5	24.4	40	146.5
TRD001479		0.75	3.1	65	22.5	13.3	40	85.1
TRD001480		0.45	1.9	31	5.7	12.5	44	75.2
TRD001481		0.62	2.9	52	4.5	22.9	104	142.5
TRD001482		0.67	3.8	44	3.9	31.1	169	288
TRD001483		0.72	2.5	40	2.0	22.7	145	119.0
TRD001484		1.25	2.2	64	1.2	29.0	159	72.4
TRD001485		1.13	2.4	80	2.1	22.9	168	86.6
TRD001486		0.18	0.8	217	0.4	23.5	82	116.0



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001487		2.10		<0.005		0.03	6.27	29.3	420	2.06	0.21	0.04	0.09	84.9	14.0	46
TRD001488		1.71		0.006		0.02	5.32	18.8	300	1.78	0.17	0.07	0.08	74.3	12.9	41
TRD001489		1.13		<0.005		0.02	7.66	16.8	480	2.51	0.45	0.04	0.05	88.8	16.0	61
TRD001490		0.87		<0.005		0.06	8.04	16.0	480	2.58	0.56	0.05	0.06	86.9	17.9	57
TRD001491		1.00		0.005		0.03	7.23	11.3	450	2.51	0.36	0.08	0.04	79.5	15.8	63
TRD001492		0.85		0.005		0.03	7.18	10.2	420	2.65	0.36	0.10	0.05	93.9	15.1	61
TRD001493		0.83		<0.005		0.03	7.55	11.4	420	2.67	0.39	0.08	0.06	88.7	16.8	66
TRD001494		0.75		<0.005		0.04	7.57	10.5	430	2.73	0.46	0.09	0.05	89.6	17.6	64
TRD001495		1.60		<0.005		0.03	7.02	7.4	410	2.62	0.38	0.11	0.04	90.7	15.5	61
TRD001496		1.75		0.005		0.02	6.90	5.2	380	2.69	0.26	0.14	0.05	96.5	15.9	58
TRD001497		1.20		<0.005		0.02	7.22	3.2	430	2.66	0.31	0.13	0.02	91.3	16.4	60
TRD001498		1.99		0.005		0.03	7.23	12.4	430	2.60	0.31	0.09	0.08	89.4	15.7	58
TRD001499		0.91		0.005		0.04	7.14	4.9	470	2.65	0.42	0.11	0.03	69.5	16.8	64
TRD001500		1.41		<0.005		0.03	7.42	6.8	460	2.54	0.30	0.13	0.06	89.0	15.8	61
TRD001501		1.02		0.005		0.03	7.82	4.1	520	2.75	0.42	0.11	0.02	89.2	16.9	69
TRD001502		4.20		0.007		0.05	6.64	22.9	400	2.38	0.33	0.06	0.29	92.0	14.2	57
TRD001503		0.46		0.010		0.02	6.33	3.2	430	2.38	0.29	0.20	0.04	85.4	14.6	57
TRD001504		0.63		0.005		0.03	7.67	2.5	520	2.75	0.41	0.12	0.03	86.5	16.8	66
TRD001505		0.42		<0.005		0.05	7.37	2.5	500	2.56	0.59	0.11	0.03	86.3	16.8	64
TRD001506		0.72		<0.005		0.03	7.93	1.7	550	2.76	0.40	0.11	0.02	88.5	17.4	69
TRD001507		0.53		0.005		0.04	7.65	1.5	530	2.69	0.49	0.11	0.03	83.5	17.4	67
TRD001508		0.66		0.005		0.02	7.79	2.2	540	2.88	0.39	0.11	0.03	91.0	17.0	66
TRD001509		1.12		0.006		0.02	8.28	0.8	580	3.18	0.35	0.09	0.02	88.0	17.5	67
TRD001510		1.19		0.006		0.02	7.58	3.7	530	2.72	0.37	0.11	0.03	88.2	16.6	63
TRD001511		1.71		<0.005		0.01	4.76	4.4	340	1.86	0.17	0.14	0.03	65.5	12.2	43
TRD001512		1.24		0.011		0.06	7.95	1.0	200	0.72	0.05	6.84	0.09	26.0	40.9	3
TRD001513		2.19	95.5	0.005		0.01	5.01	2.7	370	1.74	0.19	0.16	0.02	69.1	13.0	46



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001487		5.38	18.2	2.03	14.75	0.10	3.6	0.051	2.32	40.5	30.1	0.78	340	2.80	0.07	14.3
TRD001488		5.87	21.2	1.60	12.40	0.08	3.6	0.047	1.88	35.9	26.5	0.58	297	2.07	0.05	11.9
TRD001489		5.72	35.7	2.94	18.40	0.11	3.1	0.072	2.81	41.7	40.6	1.10	557	0.72	0.09	14.5
TRD001490		8.22	39.8	2.35	19.35	0.09	3.4	0.069	2.98	40.9	41.0	0.97	1000	0.54	0.09	15.2
TRD001491		12.20	33.7	3.31	17.70	0.11	3.1	0.058	2.78	38.4	41.5	1.19	1150	0.86	0.08	13.8
TRD001492		9.78	31.0	3.89	16.95	0.10	3.7	0.060	2.64	45.4	39.8	1.24	1350	0.97	0.09	14.8
TRD001493		7.57	38.5	4.33	18.40	0.12	3.0	0.071	2.70	43.3	45.9	1.28	1640	1.21	0.08	14.0
TRD001494		6.88	33.8	4.31	18.00	0.10	3.0	0.071	2.78	42.5	44.4	1.26	1580	1.02	0.09	14.2
TRD001495		7.85	36.9	3.78	17.05	0.12	3.3	0.067	2.69	43.3	39.6	1.19	1180	0.63	0.14	13.7
TRD001496		14.40	26.9	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
TRD001497		8.62	29.4	4.29	17.30	0.12	3.5	0.073	2.77	43.4	38.9	1.22	1345	0.39	0.16	14.2
TRD001498		8.67	28.2	3.77	17.15	0.10	3.4	0.064	2.73	43.7	35.1	1.13	1195	1.76	0.13	15.1
TRD001499		8.09	29.7	4.13	18.35	0.12	3.1	0.064	2.94	32.3	40.8	1.29	1120	0.42	0.18	14.5
TRD001500		10.40	26.5	3.98	17.00	0.10	3.6	0.060	2.86	43.0	35.7	1.26	1700	1.23	0.15	14.8
TRD001501		9.38	26.9	4.14	18.90	0.11	3.2	0.073	3.15	41.8	42.8	1.35	1315	0.40	0.18	14.8
TRD001502		7.97	25.5	2.72	16.45	0.11	4.2	0.066	2.55	43.9	33.7	0.79	682	5.25	0.11	19.6
TRD001503		11.00	25.9	3.45	14.90	0.12	3.8	0.062	2.41	40.5	37.8	1.19	2290	0.36	0.17	14.0
TRD001504		6.71	34.7	4.18	18.15	0.12	3.1	0.076	2.91	41.2	50.5	1.42	1325	0.35	0.17	14.9
TRD001505		8.80	27.7	4.02	18.15	0.12	3.1	0.058	2.91	40.7	45.7	1.38	1305	0.34	0.18	13.9
TRD001506		9.92	32.5	4.36	18.80	0.12	3.0	0.070	3.20	41.5	44.7	1.43	1340	0.41	0.21	14.4
TRD001507		9.37	29.8	4.28	18.60	0.11	3.1	0.055	3.08	39.8	45.7	1.39	1340	0.41	0.20	14.5
TRD001508		9.15	31.3	4.23	19.10	0.12	3.2	0.056	3.12	45.0	46.6	1.39	1220	0.49	0.19	14.5
TRD001509		8.87	32.0	4.65	19.65	0.13	2.9	0.061	3.30	43.1	48.0	1.54	988	0.32	0.18	14.5
TRD001510		8.54	31.0	4.01	17.70	0.12	3.1	0.073	2.98	41.2	42.9	1.33	1070	0.69	0.20	14.6
TRD001511		7.88	17.8	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
TRD001512		1.19	143.0	7.19	15.60	0.08	2.5	0.062	0.75	12.0	11.4	2.44	1235	0.40	1.49	4.7
TRD001513		7.12	16.1	2.47	11.35	0.12	2.9	0.031	1.80	33.2	27.3	0.91	737	0.75	0.26	10.2



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22092015**

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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001487		27.4	250	12.7	133.0	<0.002	0.17	3.68	9.4	<1	3.2	48.4	1.04	<0.05	15.40	0.378
TRD001488		25.1	350	12.4	125.0	<0.002	0.08	3.42	7.5	<1	2.7	35.6	0.90	<0.05	13.60	0.329
TRD001489		31.0	170	16.0	156.0	<0.002	0.04	7.47	12.2	<1	3.8	50.4	1.09	<0.05	17.90	0.409
TRD001490		31.0	200	23.0	171.0	<0.002	0.04	3.70	12.3	<1	4.7	39.8	1.23	<0.05	19.10	0.395
TRD001491		33.3	340	20.1	175.0	<0.002	0.04	2.17	12.0	<1	3.8	29.7	1.06	<0.05	15.15	0.401
TRD001492		33.3	480	21.7	164.5	<0.002	0.04	1.77	11.4	<1	3.6	32.7	1.13	<0.05	18.65	0.434
TRD001493		34.6	350	20.3	158.0	<0.002	0.06	2.02	12.3	<1	3.8	27.3	1.05	<0.05	16.20	0.399
TRD001494		35.4	370	23.2	163.0	<0.002	0.05	1.98	12.0	<1	4.3	29.1	1.10	<0.05	16.80	0.398
TRD001495		32.9	520	18.2	155.0	<0.002	0.04	1.52	11.3	<1	3.6	28.7	1.05	<0.05	17.00	0.409
TRD001496		33.9	560	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
TRD001497		35.3	530	12.6	169.5	<0.002	0.02	1.09	11.6	<1	3.6	31.8	1.08	<0.05	16.95	0.410
TRD001498		32.6	420	15.8	167.5	<0.002	0.09	2.05	11.3	1	3.9	34.7	1.10	<0.05	16.20	0.403
TRD001499		36.1	510	17.0	143.5	<0.002	0.02	1.04	12.1	<1	3.8	37.0	1.09	<0.05	13.80	0.423
TRD001500		36.8	520	15.7	183.0	<0.002	0.06	1.51	11.3	<1	3.7	46.1	1.11	<0.05	16.70	0.426
TRD001501		37.2	480	18.6	183.0	<0.002	0.02	1.07	12.7	<1	4.2	36.2	1.11	<0.05	17.25	0.429
TRD001502		30.1	320	19.4	164.5	0.002	0.27	3.54	10.3	<1	3.7	44.8	1.42	<0.05	17.95	0.365
TRD001503		34.1	710	17.0	177.0	<0.002	0.02	1.09	9.8	<1	3.2	61.1	1.04	<0.05	15.95	0.407
TRD001504		35.8	560	18.8	152.5	<0.002	0.02	1.10	11.9	<1	3.9	46.4	1.10	<0.05	16.15	0.421
TRD001505		36.1	530	25.6	170.5	<0.002	0.02	0.95	12.0	<1	3.6	41.2	1.06	0.05	16.10	0.416
TRD001506		36.9	530	19.2	199.0	<0.002	0.02	0.91	12.6	<1	4.1	39.8	1.08	<0.05	16.95	0.425
TRD001507		36.7	520	24.1	180.5	<0.002	0.02	0.95	12.5	<1	3.9	43.0	1.10	0.05	15.60	0.418
TRD001508		37.3	510	17.8	188.0	<0.002	0.06	1.09	12.9	<1	4.0	44.4	1.11	<0.05	16.75	0.425
TRD001509		38.5	460	14.3	189.5	<0.002	0.02	0.73	13.2	<1	4.1	47.2	1.10	<0.05	16.90	0.430
TRD001510		36.5	540	17.4	181.5	<0.002	0.05	1.22	11.8	<1	3.9	50.5	1.06	0.05	17.10	0.408
TRD001511		24.0	700	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
TRD001512		38.3	400	5.3	24.2	<0.002	0.04	0.13	38.4	<1	1.0	148.5	0.30	<0.05	3.13	0.394
TRD001513		26.8	720	10.4	118.5	0.002	0.04	1.14	7.3	<1	2.4	44.9	0.77	<0.05	11.55	0.319



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Project: Panama Project

<b>CERTIFICATE OF ANALYSIS BU22092015</b>
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Sample Description	Method Analyte Units LOD	ME-MS61						
		TI	U	V	W	Y	Zn	Zr
		ppm						
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001487		0.70	2.6	69	5.3	22.3	133	141.0
TRD001488		0.64	2.4	52	6.2	18.6	85	135.0
TRD001489		0.70	2.6	87	9.3	20.9	106	122.5
TRD001490		0.79	3.3	84	9.8	21.9	104	130.5
TRD001491		0.87	2.6	85	8.7	20.0	102	122.5
TRD001492		0.75	2.9	82	7.6	21.7	104	147.5
TRD001493		0.64	2.7	88	7.3	20.1	105	122.0
TRD001494		0.66	2.9	85	7.5	22.0	103	127.5
TRD001495		0.71	2.8	81	8.6	20.2	94	133.5
TRD001496		0.91	3.1	77	9.5	25.6	88	143.5
TRD001497		0.72	2.7	77	7.4	21.1	95	136.5
TRD001498		0.70	2.8	80	7.3	20.8	100	137.5
TRD001499		0.76	2.7	84	5.7	17.7	102	128.0
TRD001500		0.86	2.9	82	5.2	23.8	93	143.0
TRD001501		0.84	2.7	90	3.8	20.6	101	132.5
TRD001502		0.85	3.2	73	7.5	23.1	116	163.5
TRD001503		0.83	3.0	72	4.4	26.5	80	167.0
TRD001504		0.71	2.6	87	5.6	25.6	101	128.0
TRD001505		0.75	2.6	86	4.4	24.2	97	123.5
TRD001506		0.85	2.5	88	3.7	23.3	102	135.5
TRD001507		0.77	2.5	89	4.5	21.5	100	124.5
TRD001508		0.79	2.8	88	5.0	23.7	99	125.5
TRD001509		0.80	2.4	94	4.4	21.5	104	121.0
TRD001510		0.76	2.6	85	5.3	22.7	96	130.5
TRD001511		0.60	2.3	52	3.7	17.8	65	109.5
TRD001512		0.18	0.9	218	0.4	22.7	83	110.5
TRD001513		0.62	2.4	54	5.0	18.9	72	116.0



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	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method. ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>ACCREDITATION COMMENTS</b></p> <p>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</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>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</p>								
Applies to Method:	<p>Processed at ALS Townsville located at 14-15 Desma Court, Bohle, Townsville, QLD, Australia. Au-AA23 Au-GRA21</p>								
Applies to Method:	<p>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</p>								
Applies to Method:	<p>Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.</p> <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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**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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To: TINONE RESOURCES AUSTRALIA PTY LTD  
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 CAMP HILL QLD 4152

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 Finalized Date: 28-JUN-2022  
 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001512	NSS															
TRD001513	NSS															
TRD001514		1.38	95.7	0.014		0.05	9.10	213	460	2.24	0.52	0.01	0.02	67.6	4.4	86
TRD001515		1.53		0.013		0.03	8.32	196.0	480	2.46	0.47	0.01	0.02	50.3	3.8	82
TRD001516		1.27		0.017		0.04	8.78	176.0	430	2.01	0.53	0.01	0.02	53.4	3.6	85
TRD001517		1.35		0.022		0.08	8.01	288	370	2.01	0.56	<0.01	<0.02	13.05	2.7	106
TRD001518		1.38		0.015		0.04	9.79	192.5	500	2.55	0.44	0.01	<0.02	65.9	2.8	89
TRD001519		1.55		0.009		0.02	8.75	214	520	2.99	0.39	0.01	<0.02	98.1	4.2	76
TRD001520		1.33		<0.005		0.02	8.82	176.0	510	3.22	0.39	0.01	<0.02	115.5	4.7	63
TRD001521		1.46		<0.005		0.04	9.20	320	550	3.98	0.32	<0.01	0.02	230	31.1	60
TRD001522		1.30		0.019		0.30	5.80	691	650	5.79	0.21	<0.01	0.05	423	269	61
TRD001523		1.27		0.009		0.10	7.99	327	580	4.52	0.28	0.01	0.03	307	166.5	63
TRD001524		1.26		0.027		0.13	8.22	166.0	600	3.96	0.33	0.01	0.02	265	114.5	67
TRD001525		1.23		0.008		0.16	8.56	79.9	650	3.61	0.39	0.01	0.03	146.0	65.0	77
TRD001526		0.06		3.16		0.22	7.38	634	680	2.25	0.39	0.79	0.06	77.2	13.6	127
TRD001527		0.06		<0.005		0.01	0.10	1.0	<10	0.08	0.01	0.01	<0.02	2.37	0.4	5
TRD001528		1.58		<0.005		0.06	9.06	81.4	590	4.12	0.30	0.01	0.02	106.0	18.0	78
TRD001529		1.35		0.005		0.08	8.69	90.6	540	4.65	0.33	0.01	0.03	122.0	69.9	75
TRD001530		1.70		0.006		0.06	8.31	79.8	530	3.68	0.30	0.01	0.03	87.6	19.6	79
TRD001531		1.36		0.005		0.04	8.18	140.5	510	3.25	0.31	0.01	0.03	98.3	15.4	78
TRD001532		1.51		0.045		0.14	7.51	1110	520	6.06	0.26	0.01	0.07	250	96.9	84
TRD001533		1.23		0.021		0.10	7.14	1255	450	8.57	0.42	0.01	0.11	207	67.6	79
TRD001534		1.39		0.011		0.07	7.83	479	500	4.80	0.38	0.02	0.08	179.5	40.6	74
TRD001535		1.73		0.005		0.09	8.16	194.0	560	3.99	0.34	0.01	0.06	109.5	30.9	75
TRD001536		1.47		0.007		0.38	7.91	277	700	4.73	0.34	0.02	0.15	107.0	86.9	74
TRD001537		1.37		0.010		0.29	7.16	152.5	590	3.92	0.36	0.02	0.11	85.0	59.0	65
TRD001538		1.26		0.007		0.43	8.15	286	700	4.93	0.42	0.02	0.20	95.9	76.8	70
TRD001539		1.86		<0.005		0.05	8.52	88.6	550	3.42	0.41	0.02	0.03	95.4	13.8	78
TRD001540		1.28		0.005		0.06	8.36	43.4	550	3.01	0.37	0.02	0.04	93.3	17.4	74
TRD001541		1.57		0.005		0.04	4.01	59.6	260	1.46	0.15	0.01	0.02	46.0	6.4	38
TRD001542		1.60		0.005		0.10	8.82	136.0	600	3.22	0.37	0.06	0.05	99.4	17.2	84
TRD001543		2.14		0.006		0.24	8.17	173.5	610	3.04	0.36	0.03	0.11	98.8	36.6	79
TRD001544		1.39		0.007		0.22	7.47	161.0	580	2.98	0.39	0.03	0.11	66.2	35.0	78
TRD001545		1.23		0.009		0.05	8.05	1.5	210	0.80	0.04	6.55	0.10	29.0	38.5	6
TRD001546		1.50		0.005		0.18	8.18	113.0	560	3.31	0.37	0.06	0.06	83.1	28.5	77
TRD001547		2.25		<0.005		0.08	8.08	26.1	570	2.90	0.59	0.08	0.03	78.3	16.7	77
TRD001548	NSS															
TRD001549		1.01		0.024		0.04	7.85	128.5	370	1.70	0.43	0.06	<0.02	68.0	5.6	75
TRD001550		1.15		0.024		0.05	8.00	159.5	350	1.42	0.44	0.01	<0.02	63.3	3.0	79
TRD001551		0.94	99.5	0.018		0.07	8.62	155.0	390	1.59	0.47	0.01	0.02	58.9	2.6	85



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Plus Appendix Pages  
Finalized Date: 28-JUN-2022  
Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
TRD001512		0.05	0.2	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
TRD001513																
TRD001514		7.79	29.3	4.50	24.4	0.29	3.1	0.079	2.47	32.6	23.3	0.32	109	1.60	0.11	14.4
TRD001515		7.37	28.2	4.73	25.0	0.27	3.1	0.085	2.57	22.0	21.5	0.31	94	1.22	0.11	14.2
TRD001516		7.61	26.7	4.58	25.5	0.27	3.1	0.086	2.27	23.7	21.3	0.26	89	1.35	0.10	14.9
TRD001517		7.90	30.3	5.63	30.6	0.32	2.9	0.124	2.16	4.8	19.8	0.19	58	2.02	0.09	13.5
TRD001518		8.15	30.2	5.49	26.8	0.30	2.5	0.092	2.72	30.3	16.8	0.28	179	0.96	0.13	12.7
TRD001519		5.50	41.2	6.05	23.8	0.32	2.3	0.086	2.64	54.1	15.6	0.23	167	2.98	0.13	11.0
TRD001520		7.32	36.9	5.89	22.5	0.34	2.3	0.071	2.79	63.7	14.0	0.26	209	1.09	0.13	11.7
TRD001521		4.86	45.5	8.12	21.0	0.41	2.4	0.076	2.75	84.4	18.4	0.25	557	0.79	0.14	11.5
TRD001522		3.64	145.5	15.05	16.40	0.50	1.7	0.050	2.16	44.5	85.6	0.16	7740	1.66	0.12	7.5
TRD001523		5.97	96.2	9.06	19.30	0.28	2.1	0.060	2.71	76.9	53.1	0.26	3390	0.98	0.15	10.2
TRD001524		7.48	70.5	6.78	21.0	0.28	2.2	0.070	2.85	63.3	38.2	0.28	2640	0.67	0.16	9.8
TRD001525		9.68	43.7	5.28	23.9	0.14	2.5	0.079	2.97	57.4	39.0	0.35	2530	0.55	0.12	12.1
TRD001526		9.47	30.8	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
TRD001527		0.11	4.9	0.34	0.22	<0.05	0.3	<0.005	0.01	1.1	14.8	<0.01	30	0.66	0.02	1.0
TRD001528		7.89	52.6	5.62	26.1	0.13	2.9	0.081	3.17	52.7	31.1	0.38	831	0.59	0.13	14.2
TRD001529		8.22	55.1	5.84	24.6	0.14	2.8	0.077	2.89	51.8	40.5	0.35	1315	0.57	0.11	13.5
TRD001530		6.17	34.1	4.68	24.7	0.13	2.6	0.067	3.11	38.5	21.5	0.31	404	0.67	0.13	13.1
TRD001531		8.88	30.3	4.31	22.2	0.37	2.5	0.078	3.06	51.2	14.3	0.31	301	0.38	0.15	13.2
TRD001532		9.64	112.0	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
TRD001533		7.88	95.5	14.00	18.35	0.52	1.7	0.064	2.37	81.4	59.6	0.27	3410	1.92	0.14	8.6
TRD001534		10.70	45.9	7.19	19.85	0.40	2.0	0.080	2.85	64.8	47.8	0.37	2010	0.82	0.15	11.5
TRD001535		11.25	36.5	5.53	21.6	0.35	2.2	0.073	2.98	49.6	41.6	0.44	1600	0.61	0.17	12.7
TRD001536		12.75	57.7	6.98	21.8	0.34	1.9	0.077	2.94	50.3	94.7	0.47	6540	0.80	0.18	11.3
TRD001537		10.25	31.2	4.81	19.05	0.37	2.0	0.057	2.62	50.4	49.4	0.35	4020	0.71	0.15	11.6
TRD001538		12.25	46.1	5.92	21.1	0.40	2.3	0.066	2.90	65.1	80.6	0.41	8030	0.81	0.17	12.5
TRD001539		10.60	35.2	4.53	22.5	0.36	2.3	0.081	3.03	56.1	48.4	0.59	880	0.70	0.16	13.4
TRD001540		9.75	37.3	4.44	22.1	0.35	2.4	0.083	3.06	48.6	37.1	0.85	973	0.63	0.20	13.5
TRD001541		3.20	15.6	2.23	10.50	0.25	1.0	0.033	1.47	24.6	18.6	0.42	260	0.37	0.10	6.5
TRD001542		10.15	37.6	4.96	24.7	0.20	2.4	0.067	3.32	49.1	31.6	1.11	1075	1.24	0.22	13.7
TRD001543		12.45	60.8	5.37	22.0	0.27	2.5	0.077	3.11	50.9	67.2	1.07	4090	0.91	0.24	13.2
TRD001544		10.80	53.0	5.16	21.7	0.25	2.4	0.076	3.03	30.7	62.9	0.99	3740	1.19	0.23	13.1
TRD001545		1.72	129.5	7.11	16.85	0.30	2.7	0.057	0.77	14.4	11.2	2.42	1220	0.44	1.44	5.1
TRD001546		9.67	46.1	5.35	23.3	0.35	2.3	0.066	3.09	41.1	50.2	1.27	2550	0.87	0.33	12.6
TRD001547		6.62	30.3	4.70	23.8	0.34	2.1	0.067	2.99	38.5	38.6	1.37	838	0.46	0.40	13.4
TRD001548																
TRD001549		6.76	24.2	4.10	20.9	0.37	3.1	0.078	1.93	34.6	19.1	0.39	278	1.17	0.17	15.7
TRD001550		7.93	23.8	3.94	22.2	0.30	3.2	0.086	1.85	32.4	21.2	0.26	130	1.24	0.12	15.8
TRD001551		10.20	28.4	4.10	26.0	0.30	3.4	0.086	2.07	28.2	23.4	0.24	109	1.14	0.13	15.9



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**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
TRD001512		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001513																
TRD001514		25.5	120	28.6	163.0	<0.002	0.05	4.56	16.1	2	4.6	28.3	1.14	0.07	19.90	0.423
TRD001515		25.6	190	29.7	152.0	<0.002	0.03	3.79	15.7	2	4.5	28.0	1.11	0.06	15.50	0.397
TRD001516		22.3	130	26.4	150.5	<0.002	0.05	4.43	15.0	2	4.8	25.4	1.15	0.09	16.80	0.434
TRD001517		21.7	130	27.7	128.0	<0.002	0.05	4.84	14.6	3	5.5	20.9	1.05	0.09	8.79	0.411
TRD001518		20.4	310	25.6	168.5	<0.002	0.03	3.59	20.3	1	3.6	28.2	0.97	0.08	20.7	0.391
TRD001519		23.8	790	48.3	171.0	<0.002	0.03	8.39	23.8	1	3.3	35.8	0.89	0.06	19.50	0.340
TRD001520		20.1	850	52.9	165.0	<0.002	0.03	6.63	24.9	1	3.7	27.5	0.93	0.06	19.70	0.357
TRD001521		30.4	1510	21.0	137.5	<0.002	0.02	2.64	37.2	<1	3.6	30.5	0.97	0.05	18.05	0.339
TRD001522		76.2	3230	21.4	92.9	<0.002	0.03	3.96	49.6	<1	3.0	23.2	0.60	0.05	8.96	0.220
TRD001523		41.5	1880	21.7	155.5	<0.002	0.04	3.58	37.3	<1	4.1	24.7	0.85	0.06	17.50	0.291
TRD001524		30.5	1280	21.6	164.0	<0.002	0.04	3.25	26.9	<1	4.4	30.5	0.80	0.05	18.75	0.299
TRD001525		32.5	900	26.6	178.0	<0.002	0.02	1.20	19.8	<1	5.0	30.6	0.94	0.06	19.50	0.342
TRD001526		61.3	540	19.2	161.5	<0.002	0.14	574	14.8	<1	4.0	97.8	1.10	<0.05	15.60	0.462
TRD001527		2.6	10	0.6	0.4	<0.002	0.01	0.39	0.2	<1	0.6	0.6	0.08	<0.05	0.72	0.031
TRD001528		28.4	820	22.3	180.5	<0.002	0.03	1.60	17.9	<1	4.2	29.8	1.14	0.06	21.3	0.412
TRD001529		45.8	940	30.4	184.5	<0.002	0.02	3.06	18.6	<1	4.2	30.7	1.09	0.06	20.4	0.380
TRD001530		27.3	510	24.6	169.0	<0.002	0.02	5.57	16.6	<1	4.3	28.2	1.07	<0.05	18.60	0.375
TRD001531		16.6	510	21.5	200	<0.002	0.03	3.49	17.4	<1	4.1	27.3	1.05	0.05	20.1	0.379
TRD001532		60.4	2160	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
TRD001533		85.7	3300	21.0	138.5	<0.002	0.03	2.71	47.5	<1	3.2	27.8	0.66	0.06	14.65	0.242
TRD001534		50.6	1360	16.4	172.5	<0.002	0.03	1.50	27.3	<1	3.7	26.5	0.94	0.06	18.05	0.336
TRD001535		47.6	820	16.0	173.5	<0.002	0.03	1.32	18.8	1	3.7	24.7	0.96	0.05	19.05	0.358
TRD001536		119.5	1260	14.8	182.5	<0.002	0.03	1.44	17.4	<1	3.4	36.3	0.86	0.06	17.25	0.330
TRD001537		58.4	830	18.2	163.5	<0.002	0.03	1.49	14.2	1	3.0	33.9	0.91	0.05	16.75	0.343
TRD001538		107.0	1110	19.6	198.5	<0.002	0.03	2.03	16.5	<1	3.7	52.0	0.96	0.06	19.25	0.373
TRD001539		46.3	430	30.3	191.5	<0.002	0.03	1.26	17.0	<1	4.1	33.3	1.03	0.05	21.2	0.389
TRD001540		44.1	300	11.4	193.0	<0.002	0.03	0.89	16.2	1	3.9	32.7	1.06	0.06	20.0	0.391
TRD001541		19.9	220	7.0	83.5	<0.002	0.03	0.86	7.3	<1	1.8	15.3	0.49	<0.05	8.99	0.195
TRD001542		47.1	730	25.2	207	<0.002	0.04	1.56	18.0	<1	3.4	39.1	1.03	0.06	20.5	0.402
TRD001543		89.5	690	12.6	212	<0.002	0.04	1.13	17.8	1	3.2	43.0	1.00	0.07	19.80	0.388
TRD001544		84.8	610	13.6	152.5	<0.002	0.04	1.15	16.0	<1	3.1	40.1	0.98	0.06	14.10	0.374
TRD001545		42.2	390	9.8	36.8	<0.002	0.06	0.17	40.1	<1	1.1	142.0	0.35	<0.05	3.70	0.394
TRD001546		64.9	650	15.2	172.5	<0.002	0.03	1.12	17.4	1	3.8	44.0	0.96	0.06	17.80	0.368
TRD001547		42.2	430	18.4	141.5	<0.002	0.03	1.22	15.6	<1	4.1	45.2	1.03	0.11	17.75	0.399
TRD001548																
TRD001549		22.1	170	21.7	137.5	<0.002	0.04	2.44	13.6	3	4.1	29.5	1.20	0.07	21.0	0.480
TRD001550		17.7	110	19.6	136.0	<0.002	0.05	3.06	14.6	2	4.3	25.2	1.22	0.08	20.9	0.491
TRD001551		19.3	110	22.5	148.5	<0.002	0.05	2.98	15.8	2	4.6	28.0	1.22	0.07	21.5	0.481



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001512								
TRD001513								
TRD001514		0.77	2.7	112	3.6	11.4	45	114.5
TRD001515		0.80	2.7	112	3.0	9.4	50	110.0
TRD001516		0.75	2.6	118	3.0	9.0	43	113.0
TRD001517		0.79	2.5	147	2.6	3.2	34	106.5
TRD001518		0.78	2.7	125	1.9	8.3	41	92.2
TRD001519		0.80	3.3	111	2.7	11.6	48	84.5
TRD001520		0.78	3.8	106	1.8	13.6	52	80.6
TRD001521		0.81	5.4	90	4.0	15.0	67	86.0
TRD001522		4.41	7.8	92	3.1	14.1	152	59.4
TRD001523		1.65	5.3	92	2.7	18.8	83	83.8
TRD001524		1.76	4.0	101	2.4	16.6	62	81.1
TRD001525		1.95	3.2	107	2.6	15.5	65	87.5
TRD001526		0.82	2.5	105	2.9	16.7	104	136.0
TRD001527		<0.02	0.1	2	0.2	0.6	3	8.8
TRD001528		1.17	3.0	116	3.2	15.5	73	106.0
TRD001529		1.27	3.3	106	3.7	17.8	91	101.5
TRD001530		0.82	2.7	113	2.6	13.3	68	89.4
TRD001531		0.95	2.9	103	2.4	15.9	46	88.9
TRD001532		2.22	7.1	92	3.6	25.8	121	72.3
TRD001533		2.07	7.6	100	2.4	30.9	172	60.8
TRD001534		1.43	4.3	97	2.2	21.8	108	70.5
TRD001535		1.20	3.1	105	2.2	18.3	107	76.8
TRD001536		1.86	3.2	99	2.0	21.7	160	70.8
TRD001537		0.97	2.6	89	2.4	18.5	99	70.1
TRD001538		1.19	3.3	102	3.3	24.8	149	81.1
TRD001539		0.95	2.8	106	2.3	19.0	110	85.6
TRD001540		0.90	2.7	104	2.1	14.5	114	87.4
TRD001541		0.39	1.3	50	1.3	7.4	50	36.7
TRD001542		1.07	2.8	110	2.1	16.9	105	83.5
TRD001543		1.43	2.8	106	2.3	16.6	127	90.4
TRD001544		1.37	2.7	106	2.2	11.9	122	88.6
TRD001545		0.21	0.9	211	0.5	23.2	83	109.0
TRD001546		1.13	2.8	104	2.6	14.1	121	81.1
TRD001547		0.75	2.5	105	2.0	11.3	99	75.8
TRD001548								
TRD001549		0.72	2.6	103	2.9	10.7	43	112.0
TRD001550		0.73	2.4	106	3.1	9.5	34	117.0
TRD001551		0.72	2.6	114	3.0	9.6	35	123.5



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001552		1.10		0.083		0.06	10.00	134.5	480	1.98	0.49	<0.01	<0.02	46.3	2.2	92
TRD001553		1.21		0.075		0.10	8.69	207	370	1.81	0.34	0.01	<0.02	58.0	2.7	73
TRD001554		1.11		0.005		0.08	11.25	209	210	1.42	0.04	0.01	<0.02	31.5	6.8	31
TRD001555		0.98		0.037		0.03	11.20	271	150	1.40	0.04	0.01	0.02	42.7	6.8	33
TRD001556		1.05		<0.005		0.02	8.03	300	120	1.98	0.05	0.01	0.02	9.40	7.3	37
TRD001557		1.01		0.005		0.03	6.26	263	120	1.66	0.04	0.01	0.03	3.99	7.3	37
TRD001558		1.24		0.056		0.09	10.10	731	240	2.15	0.09	0.02	0.13	26.7	8.5	51
TRD001559		1.17		0.007		0.03	6.76	478	200	2.03	0.06	0.01	0.07	7.93	6.2	34
TRD001560		1.08		0.006		0.03	7.09	338	190	1.84	0.11	0.02	0.04	8.01	8.4	47
TRD001561		1.20		0.011		0.02	7.32	429	120	1.70	0.04	0.01	0.04	6.11	6.4	33
TRD001562		1.17		0.010		0.03	10.50	567	160	1.74	0.08	0.02	0.09	30.4	6.0	31
TRD001563		1.14		0.005		0.02	8.43	433	120	1.55	0.04	0.01	0.05	8.33	6.6	39
TRD001564		1.06		0.010		0.02	8.31	311	140	1.34	0.04	0.02	0.04	11.05	6.4	45
TRD001565		1.12		0.015		0.02	8.75	292	150	1.29	0.05	0.02	0.04	11.80	7.9	42
TRD001566		1.24		0.021		0.02	9.20	498	150	1.87	0.06	0.02	0.08	12.35	6.5	36
TRD001567		1.22		0.075		0.07	9.91	897	240	2.43	0.20	0.03	0.31	31.4	6.7	43
TRD001568		1.30		0.066		0.06	9.53	876	230	2.45	0.22	0.03	0.27	24.1	7.2	41
TRD001569		1.57		0.010		0.06	7.83	5.0	210	0.75	0.05	6.52	0.10	28.1	39.0	5
TRD001570		0.07		1.085		0.29	6.63	49.9	130	0.40	0.04	6.92	0.52	11.85	39.4	117
TRD001571		0.07		0.006		0.01	0.09	1.2	<10	<0.05	0.01	0.01	<0.02	2.30	0.5	6
TRD001572		1.18		0.035		0.05	8.34	633	220	1.70	0.13	0.03	0.13	14.10	7.4	41
TRD001573		1.37		0.027		0.04	10.75	517	160	1.12	0.08	0.04	0.11	27.5	9.1	40
TRD001574		1.40		0.014		0.04	7.33	433	130	1.00	0.09	0.05	0.11	6.89	10.3	42
TRD001575		1.29		0.031		0.06	7.81	725	190	1.48	0.18	0.03	0.22	18.25	6.7	37
TRD001576		1.27		0.023		0.05	10.10	500	180	1.37	0.08	0.05	0.11	34.5	8.5	43
TRD001577		1.29		0.023		0.06	9.80	625	210	1.61	0.06	0.05	0.18	15.40	7.7	43
TRD001578		1.24		0.028		0.04	6.82	471	190	1.44	0.05	0.03	0.13	3.63	9.8	44
TRD001579		1.35		0.009		0.03	7.41	465	160	1.62	0.04	0.03	0.10	7.69	10.4	47
TRD001580		1.06		0.005		0.03	7.13	442	150	1.93	0.03	0.03	0.09	3.30	10.6	45
TRD001581		1.21		0.012		0.02	8.87	421	160	1.20	0.04	0.05	0.11	12.50	10.9	46
TRD001582		1.49		0.009		0.04	7.60	292	250	1.60	0.26	0.02	0.06	17.45	6.6	68
TRD001583		2.77		0.008		0.02	8.05	150.0	350	1.54	0.41	0.01	<0.02	69.0	3.4	78
TRD001584		2.31		0.014		0.04	8.66	144.0	380	1.69	0.46	0.01	<0.02	60.1	3.1	84
TRD001585		2.35		0.026		0.03	9.12	147.0	460	2.08	0.53	<0.01	<0.02	73.8	3.1	91
TRD001586		2.61		0.010		0.04	6.87	94.1	390	1.73	0.40	0.04	<0.02	90.0	2.8	68
TRD001587		2.09		0.011		0.06	7.48	45.2	410	1.79	0.40	0.06	0.03	80.5	2.8	65
TRD001588		1.74		0.015		0.08	8.44	137.5	400	1.91	0.44	0.06	0.02	71.0	3.9	82
TRD001589		2.46		0.015		0.12	7.89	274	270	1.44	0.06	0.11	0.06	22.1	11.4	39
TRD001590		2.20		0.012		0.09	7.12	271	290	1.28	0.03	0.13	0.09	13.80	13.0	26
TRD001591		2.18	92.0	0.022		0.07	8.79	371	280	1.16	0.05	0.11	0.10	17.20	12.7	29



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001552		10.60	24.6	3.68	28.1	0.28	3.6	0.091	2.51	21.5	17.4	0.24	77	1.06	0.14	15.3
TRD001553		7.98	21.2	3.28	21.6	0.29	2.6	0.062	2.00	30.0	15.9	0.21	113	1.01	0.11	12.0
TRD001554		7.29	22.8	4.88	24.4	0.21	1.3	0.038	0.56	14.6	26.6	0.27	910	1.06	0.05	9.0
TRD001555		9.96	26.7	5.02	23.0	0.23	1.4	0.036	0.61	17.1	31.5	0.35	566	0.81	0.05	8.8
TRD001556		6.06	14.4	4.94	25.8	0.27	1.4	0.057	0.68	3.7	45.8	0.33	266	0.59	0.05	9.7
TRD001557		5.23	14.9	4.33	24.1	0.45	1.3	0.039	0.67	1.7	37.0	0.30	239	0.73	0.05	8.8
TRD001558		10.10	21.3	5.03	22.2	0.23	1.2	0.046	1.15	11.6	38.2	0.39	473	0.98	0.07	7.9
TRD001559		5.59	16.7	4.57	24.8	0.29	1.2	0.050	1.01	2.8	30.8	0.27	262	0.68	0.07	8.9
TRD001560		4.32	22.4	4.67	23.9	0.26	1.6	0.058	1.06	2.5	27.7	0.39	391	0.83	0.08	9.8
TRD001561		4.48	13.6	4.64	23.9	0.27	1.2	0.049	0.75	1.8	34.7	0.32	278	1.62	0.03	8.9
TRD001562		8.33	15.6	5.20	24.5	0.23	1.2	0.044	0.95	15.0	36.8	0.42	419	0.83	0.03	8.8
TRD001563		5.13	14.1	4.87	24.6	0.19	1.3	0.045	0.71	2.6	48.0	0.35	277	0.69	0.03	8.9
TRD001564		4.18	16.7	4.74	22.8	0.25	1.3	0.050	0.71	4.0	32.9	0.37	213	0.84	0.03	8.6
TRD001565		5.30	18.1	4.93	24.1	0.19	1.3	0.039	0.81	4.9	28.5	0.46	240	0.88	0.03	9.0
TRD001566		4.80	17.3	4.88	23.9	0.13	1.3	0.047	0.83	5.0	43.3	0.35	316	0.76	0.03	8.2
TRD001567		9.06	22.1	4.78	21.6	0.26	1.2	0.045	1.63	12.6	33.7	0.37	238	0.83	0.05	7.2
TRD001568		9.33	23.7	4.86	21.2	0.20	1.3	0.043	1.58	9.8	35.2	0.36	260	0.90	0.05	7.6
TRD001569		1.50	138.0	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
TRD001570		0.78	164.5	7.43	14.90	0.41	1.6	0.078	0.35	4.7	11.6	3.65	1280	0.86	1.63	3.2
TRD001571		0.10	5.1	0.34	0.33	0.20	0.2	<0.005	<0.01	1.1	15.8	<0.01	30	0.69	0.01	1.0
TRD001572		6.91	22.3	4.55	21.0	0.27	1.3	0.041	1.31	7.3	32.3	0.40	261	1.13	0.05	7.8
TRD001573		5.00	23.1	5.25	23.5	0.19	1.5	0.043	0.86	14.1	23.4	0.57	336	0.85	0.04	9.3
TRD001574		3.90	27.4	4.60	24.0	0.38	1.5	0.046	0.81	3.3	22.8	0.52	295	1.00	0.04	9.2
TRD001575		4.26	25.5	4.46	22.5	0.35	1.5	0.037	1.19	4.6	24.9	0.36	240	1.28	0.05	8.6
TRD001576		7.03	23.2	5.16	23.6	0.22	1.5	0.051	1.09	9.7	27.6	0.61	299	0.94	0.04	9.0
TRD001577		6.83	22.1	5.11	22.1	0.17	1.3	0.049	1.22	5.4	22.9	0.52	265	0.97	0.05	8.5
TRD001578		4.54	19.4	4.70	23.2	0.20	1.3	0.050	1.14	1.4	21.7	0.43	323	1.08	0.04	8.8
TRD001579		7.30	22.2	4.89	22.5	0.29	1.4	0.054	0.98	2.7	29.2	0.51	279	1.02	0.04	8.6
TRD001580		10.95	25.6	4.86	21.8	0.30	1.3	0.044	0.78	1.4	56.3	0.45	332	0.67	0.03	8.5
TRD001581		2.90	23.8	5.11	22.3	0.14	1.4	0.046	0.85	4.5	23.8	0.66	303	1.00	0.04	8.5
TRD001582		7.29	20.8	4.76	24.2	0.27	2.1	0.061	1.33	6.2	31.4	0.37	191	1.02	0.07	12.2
TRD001583		6.64	18.2	4.77	20.9	0.16	2.9	0.073	1.81	33.1	21.5	0.27	111	1.04	0.09	14.6
TRD001584		7.51	22.8	4.76	25.3	0.16	3.0	0.083	2.02	27.5	23.7	0.24	85	1.20	0.10	15.0
TRD001585		8.29	26.5	5.27	24.7	0.20	3.0	0.089	2.45	34.7	27.0	0.27	85	1.02	0.12	14.2
TRD001586		6.34	19.2	3.15	18.40	0.23	2.8	0.078	1.90	44.0	24.4	0.25	81	0.72	0.10	14.1
TRD001587		7.11	20.9	1.23	20.1	0.18	3.0	0.070	1.97	39.6	29.7	0.27	75	0.63	0.11	15.9
TRD001588		8.16	23.4	3.82	23.7	0.23	2.9	0.077	1.99	34.1	34.0	0.32	123	0.91	0.11	14.8
TRD001589		2.19	31.3	5.50	22.8	0.27	1.8	0.050	1.22	6.5	17.1	0.61	235	0.32	0.23	8.7
TRD001590		2.26	22.0	4.64	21.2	0.31	1.5	0.048	1.20	6.1	18.3	0.69	241	0.37	0.33	7.6
TRD001591		2.14	19.6	4.99	23.3	0.20	1.6	0.040	1.10	6.4	19.1	0.72	290	0.53	0.23	8.5



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001552		22.6	140	25.3	162.5	<0.002	0.05	2.85	17.4	2	4.8	30.2	1.21	0.08	22.2	0.438
TRD001553		20.9	220	24.8	120.0	<0.002	0.04	4.36	15.2	1	3.5	25.1	0.91	0.05	17.15	0.397
TRD001554		64.6	460	13.2	40.5	<0.002	0.05	1.10	17.4	<1	1.3	15.7	0.66	<0.05	5.64	0.456
TRD001555		53.5	480	7.9	47.1	<0.002	0.04	1.10	16.4	<1	1.2	17.7	0.65	<0.05	5.17	0.458
TRD001556		40.5	480	8.5	27.8	<0.002	0.03	0.60	17.3	<1	1.5	13.6	0.71	<0.05	2.75	0.476
TRD001557		24.9	390	7.9	22.8	<0.002	0.03	0.97	11.0	<1	1.3	16.0	0.60	<0.05	1.20	0.426
TRD001558		35.0	560	9.6	63.5	<0.002	0.03	5.87	16.8	1	1.3	31.0	0.57	<0.05	4.38	0.409
TRD001559		24.7	500	9.5	35.5	<0.002	0.02	3.58	16.2	<1	1.4	30.9	0.59	<0.05	2.10	0.434
TRD001560		26.2	430	10.1	35.4	<0.002	0.02	1.20	13.0	1	1.9	18.3	0.73	<0.05	2.58	0.447
TRD001561		22.7	450	7.8	27.9	0.006	0.01	1.38	13.2	1	1.2	14.8	0.62	<0.05	1.90	0.456
TRD001562		24.4	530	8.3	63.2	<0.002	0.01	2.61	16.4	1	1.2	33.2	0.61	<0.05	5.76	0.458
TRD001563		31.0	410	7.8	29.4	<0.002	0.01	1.36	14.8	<1	1.3	16.1	0.63	<0.05	2.43	0.473
TRD001564		27.0	360	7.2	22.8	<0.002	0.01	1.04	14.0	<1	1.3	21.8	0.61	<0.05	2.80	0.458
TRD001565		28.0	350	6.5	29.2	<0.002	0.01	1.08	15.6	<1	1.5	23.5	0.64	<0.05	3.71	0.462
TRD001566		36.8	500	7.7	31.6	<0.002	0.01	2.31	14.6	<1	1.3	25.3	0.60	<0.05	3.12	0.441
TRD001567		38.6	540	15.2	96.7	<0.002	0.01	12.65	17.0	<1	1.4	23.0	0.55	<0.05	5.53	0.382
TRD001568		40.8	550	16.6	87.1	<0.002	0.01	10.90	16.1	1	1.4	24.6	0.54	<0.05	4.72	0.385
TRD001569		42.0	390	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
TRD001570		83.8	380	20.6	10.4	0.002	0.30	1.11	40.7	1	1.0	177.0	0.20	0.09	0.81	0.561
TRD001571		2.7	10	0.9	0.4	<0.002	0.01	0.19	0.2	<1	0.5	0.7	0.05	<0.05	0.72	0.031
TRD001572		27.9	430	10.1	49.9	<0.002	0.01	4.71	12.2	<1	1.3	32.8	0.61	<0.05	3.92	0.402
TRD001573		19.8	380	12.9	38.7	<0.002	0.01	2.92	16.6	<1	1.4	28.2	0.70	<0.05	6.11	0.467
TRD001574		24.1	280	10.1	15.8	<0.002	0.01	2.47	13.0	<1	1.3	18.8	0.69	<0.05	2.20	0.453
TRD001575		23.3	390	12.5	41.3	<0.002	0.01	5.60	13.4	<1	1.5	10.7	0.65	<0.05	3.94	0.423
TRD001576		22.8	380	10.2	47.4	<0.002	0.01	4.58	17.5	<1	1.2	18.5	0.64	<0.05	5.41	0.445
TRD001577		22.4	400	8.7	59.3	<0.002	0.01	4.75	16.2	1	1.4	14.8	0.55	<0.05	4.65	0.423
TRD001578		24.5	300	8.0	26.1	<0.002	0.01	2.89	12.9	<1	1.4	11.5	0.59	<0.05	1.78	0.428
TRD001579		25.7	390	8.7	50.1	<0.002	0.01	1.94	14.3	<1	1.4	12.3	0.60	<0.05	2.63	0.441
TRD001580		30.1	420	8.2	44.3	<0.002	0.01	1.22	11.2	<1	1.3	10.8	0.61	<0.05	1.70	0.441
TRD001581		26.2	370	8.2	35.2	<0.002	0.01	1.05	14.1	<1	1.3	14.6	0.63	<0.05	3.09	0.443
TRD001582		24.1	260	15.0	77.3	<0.002	0.02	2.36	12.6	1	3.0	17.7	0.90	<0.05	5.77	0.470
TRD001583		18.2	130	22.5	128.5	<0.002	0.03	2.75	13.5	2	3.8	23.4	1.14	0.07	18.65	0.479
TRD001584		19.9	130	23.4	142.5	<0.002	0.04	3.04	15.1	2	4.4	25.2	1.15	0.08	19.10	0.449
TRD001585		20.6	130	29.5	157.0	<0.002	0.03	3.31	17.6	2	4.7	28.4	1.10	0.10	20.3	0.418
TRD001586		16.2	110	21.8	126.5	<0.002	0.03	2.33	13.2	1	3.7	28.0	1.11	0.05	18.15	0.447
TRD001587		18.0	90	22.5	144.5	<0.002	0.03	2.32	12.4	2	4.1	32.7	1.21	<0.05	18.85	0.492
TRD001588		22.7	140	24.9	145.5	<0.002	0.02	2.61	14.6	1	4.3	32.7	1.11	0.06	18.80	0.436
TRD001589		23.5	230	10.2	25.0	<0.002	0.01	1.32	17.8	<1	1.6	36.2	0.59	<0.05	3.57	0.510
TRD001590		21.3	190	6.7	22.5	<0.002	0.01	1.67	13.4	<1	1.5	35.1	0.49	<0.05	2.53	0.454
TRD001591		22.4	190	8.0	34.0	<0.002	0.01	2.09	15.4	<1	1.4	29.8	0.61	<0.05	4.04	0.466



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 Account: TINONEAUS

Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		TI	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001552		0.75	2.7	116	3.0	8.7	34	128.0
TRD001553		0.54	2.6	93	2.7	9.0	40	92.0
TRD001554		0.49	2.2	123	0.6	5.2	89	31.9
TRD001555		0.31	2.1	114	0.5	11.7	98	32.0
TRD001556		0.29	2.2	121	0.5	5.5	114	33.6
TRD001557		0.30	2.0	103	0.5	3.7	80	31.2
TRD001558		0.58	2.2	125	3.6	16.2	98	28.6
TRD001559		0.35	2.0	126	1.0	6.2	91	31.2
TRD001560		0.37	2.1	110	1.0	4.6	81	41.8
TRD001561		0.28	2.3	121	0.5	4.5	78	26.9
TRD001562		0.38	2.4	126	1.1	13.4	82	28.2
TRD001563		0.32	2.0	128	0.4	4.6	96	29.7
TRD001564		0.31	1.9	111	0.4	5.5	97	30.4
TRD001565		0.36	1.9	103	0.9	7.3	99	31.9
TRD001566		0.26	2.4	109	1.0	6.8	100	29.0
TRD001567		0.52	2.8	134	10.4	18.4	99	28.5
TRD001568		0.55	2.8	134	8.7	15.2	102	30.0
TRD001569		0.21	1.0	214	0.5	22.7	85	107.5
TRD001570		0.18	0.2	251	26.0	18.3	131	57.9
TRD001571		<0.02	0.1	2	0.2	0.7	3	7.5
TRD001572		0.43	2.3	116	4.8	8.5	88	30.9
TRD001573		0.27	2.6	107	0.9	11.0	78	35.6
TRD001574		0.31	1.6	103	0.7	3.9	78	35.2
TRD001575		0.35	2.1	122	7.4	9.2	75	34.7
TRD001576		0.35	2.5	109	0.8	12.6	86	35.5
TRD001577		0.34	2.7	123	1.8	10.2	84	32.4
TRD001578		0.34	1.9	117	4.8	2.7	91	31.4
TRD001579		0.35	1.9	118	0.5	5.7	112	33.6
TRD001580		0.28	1.7	109	0.4	3.1	143	33.0
TRD001581		0.26	1.8	100	0.5	7.6	110	35.3
TRD001582		0.47	2.2	120	1.8	5.9	70	68.9
TRD001583		0.55	2.5	110	2.7	10.3	38	104.0
TRD001584		0.63	2.6	117	2.9	9.1	37	108.5
TRD001585		0.68	2.9	124	3.1	11.0	45	109.5
TRD001586		0.56	2.5	91	2.6	12.5	40	101.0
TRD001587		0.62	2.6	92	2.8	11.4	36	107.0
TRD001588		0.65	2.7	111	2.7	15.4	47	107.0
TRD001589		0.27	1.9	109	0.6	6.2	85	45.9
TRD001590		0.25	2.0	107	0.4	8.2	96	39.8
TRD001591		0.23	2.4	103	0.5	8.4	93	38.4



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**CERTIFICATE OF ANALYSIS BU22106480**

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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001592		2.45		0.028		0.07	9.68	369	330	1.14	0.03	0.11	0.10	19.05	14.9	30
TRD001593		2.53		0.022		0.06	9.28	436	300	1.40	0.05	0.13	0.12	26.8	12.2	31
TRD001594		1.91		0.024		0.05	7.84	449	300	1.29	0.04	0.14	0.10	14.70	12.0	30
TRD001595		2.78		0.022		0.05	7.26	427	310	1.29	0.06	0.13	0.11	10.55	12.0	32
TRD001596		2.83		0.051		0.07	8.58	733	350	1.54	0.05	0.23	0.20	15.45	17.6	28
TRD001597		2.06		0.029		0.13	9.24	951	630	2.12	0.03	0.44	0.30	40.8	21.0	32
TRD001598		1.86		0.022		0.09	7.13	576	450	1.87	0.11	0.29	0.18	19.15	12.0	39
TRD001599		2.16		0.023		0.10	9.31	673	540	1.92	0.09	0.42	0.21	34.4	13.2	35
TRD001600		1.66		0.009		0.06	8.07	4.9	210	0.78	0.05	6.65	0.10	28.4	41.3	5
TRD001601		2.62		0.031		0.06	7.48	680	360	1.75	0.03	1.10	0.29	26.3	15.0	28
TRD001602		2.50		0.039		0.08	8.78	505	390	1.54	0.03	1.70	0.17	34.1	13.4	27
TRD001603		3.27		0.042		0.07	7.68	588	350	1.54	0.03	1.31	0.19	23.4	12.9	28
TRD001604		1.54		0.034		0.06	7.68	575	330	1.68	0.09	1.09	0.20	29.5	12.4	36
TRD001605		2.81		0.034		0.06	9.42	336	410	2.12	0.37	0.35	0.07	53.0	5.9	80
TRD001606		2.38		0.008		0.01	8.61	109.0	500	2.40	0.25	0.01	<0.02	73.4	3.4	55
TRD001607		2.66		0.006		0.01	7.51	81.4	370	2.15	0.15	0.01	<0.02	85.0	6.0	37
TRD001608		2.05		0.006		0.05	8.46	93.0	630	3.38	0.35	0.01	0.03	123.5	61.5	66
TRD001609		2.34		0.011		0.11	8.16	232	670	3.52	0.24	0.01	0.04	132.0	63.3	66
TRD001610		2.55		0.031		0.50	7.37	681	1690	5.85	0.27	0.01	0.26	242	249	76
TRD001611		0.07		3.07		0.23	7.43	615	680	2.24	0.39	0.79	0.06	79.0	14.4	124
TRD001612		0.07		0.005		<0.01	0.10	0.7	<10	0.06	0.01	0.01	<0.02	2.13	0.4	5
TRD001613		2.62		0.044		0.61	6.57	1370	2230	7.18	0.23	0.02	0.34	205	237	71
TRD001614		2.27		0.015		0.10	8.08	399	720	4.98	0.29	0.02	0.10	130.0	42.9	73
TRD001615		2.15		0.012		0.03	7.68	717	540	4.73	0.31	0.03	0.07	115.5	18.8	71
TRD001616		2.33		0.005		0.04	8.02	608	440	3.64	0.29	0.03	0.07	96.1	10.4	78
TRD001617		3.07		0.010		0.03	7.98	227	420	2.92	0.45	0.03	0.02	115.5	7.0	77
TRD001618		2.20		0.009		0.26	7.79	328	430	4.32	0.26	0.04	<0.02	99.1	10.8	63
TRD001619		2.22		0.011		0.07	8.16	216	340	2.95	0.17	0.05	<0.02	85.0	13.4	50
TRD001620		2.84		0.006		0.02	9.64	120.5	270	1.84	0.15	0.07	<0.02	42.2	16.2	64
TRD001621		2.22		0.009		0.03	11.05	119.5	220	1.83	0.15	0.08	<0.02	51.7	13.8	55
TRD001622		1.94		0.007		0.02	10.95	101.0	240	1.96	0.11	0.09	0.02	31.8	12.6	55
TRD001623		2.22		0.011		0.03	9.31	90.0	230	2.23	0.18	0.13	<0.02	25.8	15.2	59
TRD001624		1.82		0.010		0.03	7.93	62.8	270	1.66	0.10	0.18	0.02	37.0	16.4	86
TRD001625		1.87		0.007		0.08	9.16	94.1	290	1.56	0.14	0.26	<0.02	21.2	14.0	55
TRD001626		2.14		0.008		0.08	8.52	88.0	280	1.49	0.15	0.24	0.02	16.15	12.8	52
TRD001627		1.26		0.012		0.06	7.82	2.0	210	0.81	0.04	6.41	0.09	27.9	40.1	5
TRD001628		2.16		0.009		0.06	9.30	66.4	310	1.42	0.11	0.96	0.02	34.9	15.0	49
TRD001629		2.20		0.006		0.04	7.77	17.2	330	1.04	0.07	2.02	0.06	25.1	17.7	54
TRD001630		2.48		0.169		0.15	7.53	299	240	2.26	0.18	0.97	0.03	30.6	16.0	47
TRD001631		2.95	93.9	0.040		0.07	8.21	113.5	370	1.57	0.13	2.32	0.06	35.6	18.4	46



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Project: Panama Project

**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001592		2.47	18.4	5.16	22.8	0.21	1.5	0.045	1.17	6.7	19.9	0.80	480	0.43	0.19	8.5
TRD001593		3.34	29.5	5.03	22.1	0.22	1.4	0.047	1.20	12.1	21.4	0.81	341	0.36	0.26	8.2
TRD001594		2.14	25.3	4.80	20.8	0.25	1.3	0.043	1.09	5.7	18.8	0.71	306	0.59	0.34	8.1
TRD001595		2.01	22.2	4.59	22.3	0.33	1.4	0.050	1.12	3.9	18.7	0.65	257	0.44	0.37	8.0
TRD001596		2.18	47.0	5.76	22.9	0.28	1.7	0.050	1.12	5.0	18.0	0.66	409	0.64	0.53	9.3
TRD001597		3.74	27.6	5.18	20.1	0.22	1.3	0.034	1.15	21.0	15.1	0.57	1445	0.69	1.36	7.6
TRD001598		3.78	29.6	4.38	21.5	0.28	1.6	0.049	1.22	8.4	19.2	0.43	810	0.67	0.98	9.3
TRD001599		4.44	31.5	4.66	21.9	0.25	1.5	0.052	1.25	16.6	17.3	0.56	1060	0.58	1.22	8.7
TRD001600		1.80	133.0	7.17	17.15	0.31	2.9	0.061	0.77	14.4	11.7	2.49	1265	0.50	1.43	5.5
TRD001601		6.99	21.4	5.17	18.00	0.31	1.2	0.027	1.02	12.4	16.6	0.71	603	0.49	2.02	6.9
TRD001602		9.97	20.1	5.19	19.05	0.33	1.2	0.034	1.18	17.7	15.3	0.78	467	0.60	2.57	7.0
TRD001603		9.49	20.0	4.99	18.25	0.32	1.2	0.039	1.10	10.8	16.2	0.72	426	0.51	2.25	7.2
TRD001604		8.90	19.4	5.16	20.4	0.38	1.5	0.041	1.09	14.2	19.6	0.67	413	0.79	1.81	9.5
TRD001605		7.68	25.4	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
TRD001606		3.20	25.8	5.07	21.6	0.29	2.1	0.052	2.57	37.8	12.2	0.23	145	0.89	0.14	12.8
TRD001607		2.79	23.2	4.18	17.45	0.21	2.7	0.034	2.04	38.4	11.2	0.16	243	1.64	0.10	10.0
TRD001608		6.09	29.3	5.09	23.6	0.28	2.2	0.071	2.96	37.3	23.6	0.30	1875	0.74	0.11	13.1
TRD001609		6.16	37.0	6.10	21.7	0.37	2.0	0.062	2.66	71.9	15.8	0.26	3300	0.97	0.13	10.2
TRD001610		7.17	79.0	12.35	19.20	0.52	1.3	0.065	2.32	100.5	35.7	0.22	27200	1.43	0.20	8.0
TRD001611		9.68	31.7	3.88	19.30	0.31	3.7	0.077	2.74	40.0	42.6	1.52	348	0.70	0.71	14.5
TRD001612		0.09	4.7	0.33	0.20	<0.05	0.2	<0.005	0.01	1.1	14.0	<0.01	29	0.62	0.01	0.9
TRD001613		5.84	93.1	16.15	17.20	0.72	1.2	0.049	2.03	82.5	41.4	0.18	26800	1.57	0.21	5.9
TRD001614		7.95	49.9	8.67	21.4	0.46	1.6	0.066	2.70	90.8	14.8	0.26	3180	0.71	0.15	8.0
TRD001615		7.96	46.7	9.30	20.6	0.45	1.7	0.063	2.60	81.6	15.2	0.25	1130	0.86	0.12	7.5
TRD001616		6.77	31.1	9.11	21.6	0.34	1.3	0.067	2.51	59.8	13.6	0.21	367	1.05	0.16	6.9
TRD001617		8.53	46.1	6.82	23.2	0.36	1.4	0.069	2.55	88.9	17.2	0.24	222	1.08	0.14	7.3
TRD001618		8.31	37.5	9.67	20.5	0.36	1.5	0.067	2.58	57.2	15.7	0.26	299	1.34	0.12	7.8
TRD001619		11.05	35.0	7.74	19.35	0.31	1.9	0.048	1.63	53.4	42.4	0.29	534	1.18	0.08	8.1
TRD001620		13.70	42.4	7.57	25.7	0.28	1.6	0.062	1.07	28.2	76.5	0.48	453	1.20	0.04	9.8
TRD001621		15.65	39.9	7.98	24.7	0.33	1.3	0.056	0.83	33.9	84.6	0.45	347	1.34	0.04	9.2
TRD001622		14.25	40.6	7.51	25.2	0.32	1.2	0.047	0.88	17.2	88.2	0.41	332	1.25	0.04	8.8
TRD001623		12.55	38.0	7.29	23.7	0.29	1.4	0.053	0.84	12.9	46.5	0.47	286	1.52	0.11	8.3
TRD001624		8.21	31.8	6.60	20.8	0.25	1.4	0.063	0.81	20.3	41.7	0.49	262	1.07	0.34	8.2
TRD001625		8.03	25.9	9.58	20.6	0.17	1.1	0.055	0.91	8.9	40.2	0.45	310	1.12	0.54	6.9
TRD001626		7.47	25.4	9.20	20.4	0.28	1.1	0.048	0.86	6.8	43.4	0.41	308	1.16	0.51	7.1
TRD001627		1.60	132.0	7.18	17.25	0.33	2.8	0.063	0.77	13.6	12.0	2.40	1220	0.42	1.40	5.4
TRD001628		6.45	23.6	6.79	19.90	0.35	1.2	0.046	0.79	18.2	38.7	0.49	295	0.75	1.86	7.6
TRD001629		3.46	23.1	4.38	19.40	0.35	1.2	0.042	0.70	11.8	24.4	0.94	407	0.79	2.74	7.4
TRD001630		8.59	23.4	6.18	16.30	0.34	1.0	0.038	0.99	15.6	21.1	0.67	350	1.12	1.81	5.8
TRD001631		4.82	22.8	5.30	19.15	0.35	1.1	0.046	1.12	17.2	22.3	1.23	1070	2.53	2.57	7.2



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**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001592		22.9	200	8.0	39.3	<0.002	0.01	2.01	15.8	<1	1.4	26.7	0.61	<0.05	4.54	0.472
TRD001593		23.6	230	7.6	43.7	<0.002	0.01	2.41	16.7	1	1.4	33.2	0.58	<0.05	4.50	0.463
TRD001594		23.0	220	7.2	27.6	<0.002	0.01	1.64	13.7	<1	1.3	35.5	0.55	<0.05	3.02	0.445
TRD001595		23.0	200	7.9	26.4	<0.002	0.01	2.04	13.4	<1	1.4	36.7	0.56	<0.05	2.63	0.443
TRD001596		23.3	280	9.4	37.0	<0.002	0.01	2.18	15.8	<1	1.6	55.1	0.64	<0.05	4.73	0.505
TRD001597		27.0	460	7.8	72.4	<0.002	0.01	2.89	15.3	<1	1.2	140.5	0.51	<0.05	7.32	0.415
TRD001598		22.8	320	10.6	45.9	<0.002	0.01	2.84	13.2	1	1.7	91.4	0.64	<0.05	4.65	0.428
TRD001599		22.8	390	9.9	71.0	<0.002	0.01	4.75	15.0	1	1.6	128.0	0.58	<0.05	7.06	0.430
TRD001600		43.8	400	6.3	35.9	<0.002	0.04	0.27	42.3	1	1.1	143.5	0.36	<0.05	3.81	0.409
TRD001601		22.5	390	7.1	71.7	<0.002	0.01	6.09	12.4	<1	1.0	249	0.48	<0.05	4.92	0.362
TRD001602		24.0	700	6.7	94.2	<0.002	0.03	11.40	13.3	1	1.1	341	0.48	<0.05	5.65	0.373
TRD001603		21.2	540	6.9	71.1	<0.002	0.03	8.05	12.6	<1	1.1	278	0.48	<0.05	4.94	0.376
TRD001604		24.2	440	8.9	81.9	<0.002	0.02	5.86	14.6	1	1.7	229	0.67	<0.05	6.66	0.426
TRD001605		21.2	280	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
TRD001606		18.2	470	25.4	99.5	<0.002	0.03	1.94	22.3	<1	2.3	26.7	0.97	<0.05	17.55	0.349
TRD001607		20.8	540	34.0	88.4	<0.002	0.02	1.64	17.8	<1	1.6	22.7	0.79	<0.05	16.85	0.245
TRD001608		25.9	740	33.6	158.5	<0.002	0.02	1.68	24.5	<1	3.6	19.0	0.96	<0.05	16.30	0.363
TRD001609		27.5	1180	16.8	151.5	<0.002	0.02	2.25	26.2	<1	2.5	27.8	0.72	<0.05	19.10	0.281
TRD001610		52.9	2900	15.8	139.0	<0.002	0.02	1.10	28.1	<1	2.6	78.6	0.54	0.06	16.65	0.236
TRD001611		62.7	560	19.2	164.5	<0.002	0.14	589	15.8	<1	3.8	99.1	1.06	<0.05	15.30	0.476
TRD001612		2.8	10	0.8	0.4	<0.002	0.01	0.29	0.2	<1	0.5	0.6	0.05	<0.05	0.65	0.030
TRD001613		68.9	4050	12.0	116.5	<0.002	0.02	1.80	21.6	<1	2.1	61.0	0.42	<0.05	14.45	0.181
TRD001614		38.6	1840	10.0	148.5	<0.002	0.01	1.22	16.1	<1	3.0	36.1	0.56	0.05	18.60	0.245
TRD001615		38.2	1880	13.9	145.0	<0.002	0.01	1.81	15.7	<1	2.9	30.6	0.51	0.07	17.55	0.226
TRD001616		39.7	1480	15.2	145.5	<0.002	0.01	1.06	15.0	<1	3.2	31.0	0.49	0.05	18.75	0.222
TRD001617		29.3	1180	15.3	171.0	<0.002	0.01	2.62	14.4	<1	3.2	45.6	0.57	0.06	18.35	0.228
TRD001618		38.6	1920	14.3	153.5	<0.002	0.01	2.08	16.6	<1	3.4	27.9	0.59	<0.05	17.40	0.240
TRD001619		45.6	1600	16.2	115.0	<0.002	0.01	1.94	15.6	1	2.0	36.0	0.61	<0.05	15.85	0.302
TRD001620		49.5	1320	13.2	70.8	<0.002	0.01	0.88	20.5	<1	1.4	82.7	0.73	<0.05	5.42	0.530
TRD001621		49.8	1380	10.2	96.8	<0.002	0.01	0.88	19.0	1	1.2	71.2	0.64	<0.05	5.70	0.503
TRD001622		46.0	1360	9.2	89.7	<0.002	0.01	1.28	20.4	<1	1.2	68.4	0.57	<0.05	5.47	0.483
TRD001623		43.8	1250	8.9	64.0	<0.002	0.01	1.62	18.0	<1	1.2	45.6	0.54	<0.05	3.50	0.453
TRD001624		45.6	980	9.6	83.9	<0.002	0.01	0.79	16.4	<1	1.3	65.6	0.56	<0.05	5.75	0.473
TRD001625		38.9	1520	8.7	67.9	<0.002	0.01	0.95	13.0	<1	1.0	68.9	0.52	<0.05	3.78	0.421
TRD001626		34.9	1390	7.9	56.2	<0.002	0.01	0.92	14.5	<1	1.1	64.8	0.51	<0.05	4.10	0.416
TRD001627		42.8	390	5.9	23.6	0.002	0.04	0.20	40.7	1	1.1	139.0	0.34	<0.05	3.47	0.400
TRD001628		36.2	920	8.0	69.6	<0.002	0.01	0.88	16.0	1	0.9	314	0.50	<0.05	5.24	0.418
TRD001629		31.7	810	7.6	18.8	<0.002	0.05	0.77	15.2	<1	1.0	463	0.51	<0.05	4.17	0.410
TRD001630		30.0	1210	7.6	61.2	<0.002	0.04	3.31	14.6	<1	1.0	240	0.41	<0.05	4.28	0.338
TRD001631		29.1	870	9.4	43.5	<0.002	0.06	1.28	15.0	<1	1.3	409	0.51	<0.05	5.62	0.377



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001592		0.23	2.1	102	0.4	7.9	94	36.4
TRD001593		0.26	2.0	109	1.1	11.8	113	34.8
TRD001594		0.25	1.7	101	1.0	6.8	100	33.3
TRD001595		0.24	1.9	98	0.4	5.1	103	35.4
TRD001596		0.23	2.3	119	0.5	6.6	102	43.1
TRD001597		0.29	1.9	127	0.5	15.6	115	33.5
TRD001598		0.37	2.0	117	1.3	8.2	86	47.4
TRD001599		0.36	2.2	121	1.2	13.7	95	41.6
TRD001600		0.21	0.9	214	0.5	24.2	84	113.0
TRD001601		0.21	1.4	100	1.7	10.9	95	32.9
TRD001602		0.28	1.3	104	2.6	16.3	86	32.3
TRD001603		0.26	1.4	103	2.2	10.7	84	33.7
TRD001604		0.30	1.6	108	3.8	11.1	84	42.5
TRD001605		0.67	2.4	117	3.5	9.9	52	89.5
TRD001606		0.48	2.7	91	1.9	9.5	35	76.6
TRD001607		0.62	3.4	63	1.9	8.1	30	85.4
TRD001608		1.55	3.4	99	2.0	12.0	41	79.1
TRD001609		0.96	3.9	93	2.0	19.1	52	77.5
TRD001610		2.30	4.8	93	1.2	30.9	122	46.4
TRD001611		0.84	2.5	103	2.9	16.8	101	141.0
TRD001612		<0.02	0.1	2	0.1	0.6	3	7.4
TRD001613		5.52	4.4	90	1.6	34.7	161	40.7
TRD001614		1.57	2.8	96	1.4	28.1	97	56.8
TRD001615		0.83	2.6	93	1.6	29.3	102	59.3
TRD001616		0.75	2.1	109	1.9	20.5	91	43.1
TRD001617		0.86	2.2	104	1.7	21.2	62	46.3
TRD001618		0.78	2.7	112	2.0	24.4	87	53.7
TRD001619		0.69	3.1	100	1.5	22.6	93	54.5
TRD001620		0.57	2.6	143	1.4	12.5	130	40.4
TRD001621		0.48	2.0	136	1.6	14.2	122	31.8
TRD001622		0.49	1.8	127	0.8	12.9	118	30.0
TRD001623		0.45	1.9	147	1.1	16.1	145	34.0
TRD001624		0.31	1.8	144	0.8	20.6	144	33.9
TRD001625		0.28	1.6	121	1.0	12.8	157	27.2
TRD001626		0.30	1.5	118	1.0	10.2	152	26.8
TRD001627		0.21	0.9	214	0.5	23.4	82	112.5
TRD001628		0.26	1.5	118	1.3	16.3	126	30.4
TRD001629		0.19	1.8	119	1.1	12.6	76	30.7
TRD001630		0.27	1.6	106	6.3	17.9	78	26.9
TRD001631		0.35	1.6	109	2.9	13.6	78	30.8



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GR21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001632		2.39		0.015		0.34	8.19	47.5	340	1.25	0.08	2.87	0.06	30.6	16.6	45
TRD001633		2.61		0.028		0.05	7.53	201	320	1.14	0.13	2.71	0.06	21.8	16.1	44
TRD001634		0.95		0.011		0.03	6.45	152.0	380	1.58	0.38	0.26	0.03	75.2	4.1	68
TRD001635		2.29		0.019		0.04	8.74	205	420	1.88	0.46	0.16	0.02	77.7	4.4	80
TRD001636		2.17		0.023		0.04	9.67	200	420	1.88	0.52	0.05	<0.02	76.4	3.6	90
TRD001637		2.43		0.035		0.04	9.45	213	470	2.38	0.54	0.03	<0.02	72.9	2.8	95
TRD001638		2.08		0.023		0.08	9.05	213	380	1.70	0.49	0.03	0.02	66.0	2.6	89
TRD001639		2.38		0.018		0.10	7.73	202	380	1.85	0.47	0.02	<0.02	54.2	2.3	78
TRD001640		1.76		0.019		0.12	6.80	240	290	1.39	0.44	0.04	<0.02	66.4	2.3	67
TRD001641		1.81		0.008		0.08	9.67	360	450	2.70	0.31	0.02	<0.02	112.0	4.0	86
TRD001642		2.13		0.005		0.03	8.89	359	530	4.40	0.11	0.01	<0.02	197.5	6.0	63
TRD001643		2.11		0.011		0.04	8.60	474	540	5.05	0.08	0.01	<0.02	202	8.1	90
TRD001644		2.00		0.020		0.10	7.71	1060	310	8.79	0.08	0.01	0.05	274	39.2	57
TRD001645		1.85		0.050		0.42	6.83	1230	530	7.71	0.06	0.01	0.11	87.6	95.6	37
TRD001646		0.07		>10.0	25.4	1.36	6.15	3790	530	2.24	0.67	0.83	0.07	65.1	12.6	103
TRD001647		0.07		0.009		0.01	0.09	1.8	<10	0.07	0.01	0.01	<0.02	2.09	0.4	5
TRD001648		1.91		0.011		0.06	9.44	347	180	2.52	0.04	0.01	0.02	28.0	26.2	27
TRD001649		1.93		0.007		0.02	9.68	228	100	2.41	0.05	0.01	0.02	16.90	14.6	33
TRD001650		2.21		0.010		0.02	10.55	169.0	150	2.48	0.06	0.01	<0.02	32.6	7.3	27
TRD001651		1.66		0.008		0.02	10.55	218	120	3.03	0.06	0.02	0.02	26.7	7.6	54
TRD001652		1.83		0.030		0.01	9.55	192.5	130	2.51	0.03	0.02	0.02	14.70	7.8	40
TRD001653		1.84		0.005		0.02	11.25	216	160	2.65	0.06	0.02	0.03	26.5	10.4	40
TRD001654		1.75		<0.005		0.02	7.70	126.5	140	1.73	0.06	0.02	0.02	5.82	12.8	38
TRD001655		1.84		0.012		0.02	8.44	141.5	140	1.53	0.66	0.03	0.04	8.10	11.4	45
TRD001656		1.97		<0.005		0.01	8.43	148.5	150	1.28	0.06	0.03	0.03	6.66	13.5	49
TRD001657		1.69		<0.005		0.02	9.11	153.0	150	1.24	0.06	0.04	0.02	9.21	9.2	44
TRD001658		1.55		<0.005		0.02	8.08	121.0	170	1.36	0.06	0.03	0.02	9.08	10.2	40
TRD001659		1.92		<0.005		0.02	10.10	114.5	200	1.62	0.10	0.05	0.02	22.6	10.4	42
TRD001660		1.89		<0.005		0.02	8.45	108.5	240	1.40	0.10	0.04	0.02	9.01	13.6	45
TRD001661		1.68		<0.005		0.02	10.40	110.5	260	1.08	0.23	0.05	<0.02	19.30	10.7	48
TRD001662		1.57		<0.005		0.02	10.10	148.5	210	1.04	0.05	0.04	<0.02	24.1	12.3	46
TRD001663		1.56		0.005		0.02	7.20	170.5	270	0.98	0.06	0.04	0.03	6.89	11.2	45
TRD001664		1.82		0.006		0.04	9.86	237	260	1.32	0.06	0.07	0.04	24.3	11.0	49
TRD001665		1.56		<0.005		0.02	7.89	191.5	210	1.64	0.03	0.04	0.04	8.04	13.6	52
TRD001666		2.39		<0.005		0.02	8.66	186.5	210	1.72	0.04	0.05	0.02	9.26	13.5	51
TRD001667		1.81		0.015		0.05	7.99	1.7	210	0.77	0.03	6.62	0.06	26.7	39.8	5
TRD001668		1.67		0.007		0.03	8.88	196.5	350	1.83	0.42	0.03	<0.02	73.1	8.3	74
TRD001669		1.62		0.014		0.04	9.73	187.0	430	1.98	0.64	0.01	<0.02	63.7	3.4	93
TRD001670		1.80		0.012		0.04	7.98	132.5	320	1.32	0.40	0.03	0.02	81.1	2.7	73
TRD001671		1.80	98.0	0.006		0.04	7.23	36.7	360	1.55	0.40	0.01	0.02	104.0	2.3	60



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**CERTIFICATE OF ANALYSIS BU22106480**

Sample Description	Method Analyte Units LOD	ME-MS61														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001632		3.10	16.0	4.66	18.00	0.11	1.0	0.048	0.90	14.3	18.9	1.40	1100	4.29	2.79	6.7
TRD001633		2.33	14.9	4.51	17.05	0.11	0.9	0.034	0.85	9.9	18.0	1.33	1080	4.71	2.99	6.3
TRD001634		5.30	12.8	4.07	18.50	0.15	2.5	0.067	1.96	37.0	14.4	0.36	226	1.22	0.33	15.1
TRD001635		6.66	23.8	4.17	21.6	0.16	3.1	0.078	2.18	38.8	21.1	0.35	164	1.58	0.25	15.1
TRD001636		7.05	24.1	4.88	23.7	0.15	3.0	0.100	2.20	36.4	19.5	0.28	106	1.50	0.15	14.7
TRD001637		7.27	28.2	4.64	24.4	0.14	3.7	0.091	2.58	33.0	17.8	0.28	88	1.30	0.13	15.0
TRD001638		9.43	26.8	4.86	26.2	0.17	3.2	0.084	1.99	32.5	21.6	0.24	93	4.53	0.12	16.7
TRD001639		8.81	24.5	4.30	23.6	0.14	2.9	0.076	2.09	24.6	23.1	0.23	81	1.48	0.11	15.3
TRD001640		10.20	27.8	4.57	24.8	0.14	2.8	0.068	1.53	29.7	38.2	0.20	103	1.70	0.11	17.1
TRD001641		9.50	44.3	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
TRD001642		5.70	31.3	6.73	22.7	0.32	1.6	0.042	2.51	151.5	16.4	0.23	240	1.11	0.14	9.9
TRD001643		5.63	37.9	8.57	22.8	0.39	1.5	0.034	2.42	135.0	10.8	0.18	215	1.12	0.18	8.5
TRD001644		5.27	84.3	19.30	19.35	0.77	1.2	0.042	1.17	209	14.9	0.13	1810	3.80	0.06	9.9
TRD001645		3.49	61.0	22.7	13.85	0.64	0.8	0.027	0.93	56.9	28.9	0.10	5680	5.71	0.06	5.0
TRD001646		8.49	50.7	3.33	15.85	0.14	3.0	0.058	2.49	32.9	36.5	1.24	346	1.32	0.49	11.2
TRD001647		0.10	6.0	0.33	0.26	<0.05	0.2	0.007	0.01	1.0	13.1	<0.01	30	0.71	0.01	1.0
TRD001648		2.14	8.9	10.05	22.0	0.17	1.2	0.038	0.32	12.7	35.2	0.14	1320	1.93	0.03	8.5
TRD001649		3.88	7.2	7.89	23.2	0.15	1.5	0.044	0.43	7.5	27.9	0.28	375	1.46	0.03	8.4
TRD001650		7.65	7.9	6.86	21.1	0.13	1.0	0.046	0.68	20.5	42.1	0.27	255	1.28	0.04	7.7
TRD001651		5.68	17.2	7.14	20.6	0.11	1.2	0.065	0.75	12.7	39.3	0.21	297	1.19	0.03	7.5
TRD001652		4.20	9.5	6.39	21.9	0.08	1.2	0.041	0.66	7.6	42.0	0.33	297	1.04	0.03	9.6
TRD001653		12.50	30.8	7.72	23.6	0.12	1.4	0.055	0.87	13.1	61.5	0.51	278	1.06	0.04	8.4
TRD001654		7.05	34.1	6.90	23.4	0.21	1.2	0.050	0.69	2.6	41.6	0.47	365	1.44	0.03	8.2
TRD001655		7.09	22.0	6.65	21.6	0.11	1.3	0.043	0.81	3.7	53.4	0.53	346	1.56	0.03	8.6
TRD001656		5.59	14.2	6.61	23.3	0.15	1.3	0.040	0.81	2.9	40.7	0.61	424	1.63	0.03	9.1
TRD001657		4.72	15.6	6.10	23.2	0.10	1.4	0.041	0.96	3.0	39.2	0.53	257	1.30	0.04	8.9
TRD001658		4.20	15.7	5.83	22.7	0.15	1.3	0.040	0.96	2.6	41.3	0.47	313	1.21	0.04	8.6
TRD001659		6.97	15.3	5.93	22.4	0.11	1.4	0.054	1.10	10.4	60.6	0.60	294	1.38	0.04	8.6
TRD001660		5.18	14.2	5.69	22.6	0.14	1.5	0.041	1.00	3.7	50.8	0.52	463	1.02	0.04	8.6
TRD001661		7.00	19.2	5.98	22.3	0.12	1.6	0.035	1.24	9.7	31.4	0.64	271	0.93	0.05	9.0
TRD001662		7.62	14.4	6.25	21.3	0.14	1.3	0.049	1.11	10.8	27.5	0.80	310	1.15	0.05	8.3
TRD001663		4.52	14.3	5.66	20.7	0.18	1.1	0.049	1.01	2.4	31.9	0.51	252	1.34	0.05	8.0
TRD001664		8.59	14.2	6.14	20.8	0.11	1.2	0.059	1.26	10.3	26.1	0.65	227	1.43	0.07	8.3
TRD001665		3.81	13.9	6.22	22.3	0.16	1.4	0.046	0.98	4.1	64.2	0.62	280	1.04	0.08	8.6
TRD001666		4.31	14.6	6.30	22.1	0.12	1.3	0.063	0.99	4.5	75.0	0.68	280	1.02	0.08	8.4
TRD001667		1.49	122.5	7.32	16.65	0.13	2.8	0.073	0.79	12.5	11.0	2.54	1260	0.45	1.46	5.3
TRD001668		7.74	21.9	7.11	24.3	0.14	2.3	0.074	1.61	37.1	30.1	0.33	286	1.58	0.07	12.7
TRD001669		10.70	21.7	5.29	25.5	0.15	3.0	0.090	2.20	30.9	35.0	0.27	78	1.12	0.08	13.0
TRD001670		10.55	19.1	3.45	20.4	0.07	3.0	0.073	1.42	39.3	33.1	0.22	76	1.31	0.09	14.6
TRD001671		10.90	13.7	1.46	19.35	0.10	3.0	0.061	1.75	50.6	29.5	0.23	69	1.08	0.09	15.5



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Sample Description	Method Analyte Units LOD	ME-MS61														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001632		26.7	760	8.0	31.8	<0.002	0.05	0.68	12.6	<1	1.0	442	0.60	<0.05	4.51	0.377
TRD001633		24.8	740	7.5	17.4	<0.002	0.09	0.76	10.4	<1	0.9	460	0.52	<0.05	3.19	0.375
TRD001634		14.4	210	19.4	126.0	<0.002	0.02	2.53	10.8	1	3.5	57.2	1.26	0.06	15.15	0.473
TRD001635		22.2	170	28.0	146.5	<0.002	0.03	2.92	14.0	1	4.3	47.9	1.22	0.07	20.6	0.463
TRD001636		22.1	150	27.6	149.5	<0.002	0.04	3.25	14.6	2	4.5	31.8	1.19	0.08	21.8	0.458
TRD001637		19.6	170	30.0	157.5	<0.002	0.03	3.64	16.5	2	4.6	31.7	1.23	0.07	22.4	0.449
TRD001638		28.3	150	26.2	146.5	<0.002	0.04	3.26	16.9	2	4.6	31.5	1.38	0.09	18.70	0.541
TRD001639		15.4	150	25.8	130.5	<0.002	0.03	3.07	15.4	1	4.3	27.5	1.21	0.07	15.35	0.475
TRD001640		13.5	270	21.9	117.0	<0.002	0.04	2.80	15.8	1	4.5	27.5	1.38	0.05	13.75	0.566
TRD001641		24.7	860	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
TRD001642		26.8	1440	15.8	132.5	<0.002	0.02	1.57	17.1	<1	1.7	50.5	0.84	<0.05	20.5	0.326
TRD001643		31.9	1880	12.9	127.5	<0.002	0.02	1.22	19.4	<1	1.6	44.6	0.65	<0.05	20.9	0.283
TRD001644		64.6	4460	10.8	75.3	0.002	0.03	4.49	19.2	1	1.7	38.6	0.63	<0.05	17.35	0.339
TRD001645		60.6	4950	8.5	56.7	<0.002	0.03	4.65	10.4	<1	0.6	18.8	0.43	<0.05	4.94	0.230
TRD001646		43.0	490	32.1	146.5	<0.002	0.75	3520	11.2	1	3.2	96.4	0.86	<0.05	12.35	0.362
TRD001647		3.6	10	1.2	0.5	<0.002	0.01	0.74	0.2	<1	0.6	0.9	0.06	<0.05	0.70	0.030
TRD001648		38.4	1840	8.2	14.4	<0.002	0.02	0.64	11.6	<1	0.5	10.1	0.63	<0.05	4.74	0.421
TRD001649		27.3	1250	8.1	23.7	<0.002	0.02	0.55	12.7	<1	0.7	7.7	0.69	<0.05	5.72	0.420
TRD001650		24.6	1080	8.7	57.9	<0.002	0.01	0.99	12.4	<1	0.5	30.2	0.60	<0.05	4.29	0.387
TRD001651		26.9	1150	8.0	42.9	<0.002	0.02	1.30	19.5	<1	0.7	14.8	0.54	<0.05	4.25	0.390
TRD001652		26.9	830	7.8	24.6	<0.002	0.01	0.78	9.7	<1	0.9	25.1	0.70	<0.05	3.73	0.500
TRD001653		33.6	1040	8.2	69.4	<0.002	0.01	0.86	17.2	<1	1.4	30.0	0.69	<0.05	4.82	0.478
TRD001654		30.4	750	8.8	13.2	<0.002	0.01	0.37	11.8	<1	1.2	21.9	0.60	<0.05	1.40	0.471
TRD001655		31.2	810	54.9	29.5	<0.002	0.01	0.64	13.0	<1	1.3	23.0	0.67	<0.05	2.11	0.484
TRD001656		32.1	720	8.7	18.9	<0.002	0.01	0.91	13.6	<1	1.4	21.2	0.70	<0.05	2.06	0.475
TRD001657		25.6	660	8.2	30.2	<0.002	0.01	0.56	12.5	<1	1.2	20.9	0.70	<0.05	2.85	0.474
TRD001658		24.4	650	9.7	26.3	<0.002	0.01	0.60	11.4	<1	1.2	22.0	0.72	<0.05	2.70	0.441
TRD001659		25.3	680	10.4	60.5	<0.002	0.01	0.75	14.4	<1	1.4	37.6	0.78	<0.05	5.02	0.428
TRD001660		23.8	590	9.9	29.5	<0.002	0.01	0.67	12.0	<1	1.4	29.9	0.81	<0.05	2.76	0.446
TRD001661		22.7	580	9.6	51.0	<0.002	0.01	0.89	14.8	<1	1.5	44.2	0.72	<0.05	5.11	0.455
TRD001662		23.9	550	8.1	56.8	<0.002	0.01	0.38	14.3	<1	1.3	29.0	0.68	<0.05	5.38	0.447
TRD001663		23.3	520	7.9	21.8	<0.002	0.01	0.84	10.4	<1	1.4	31.8	0.62	<0.05	1.66	0.425
TRD001664		24.5	650	7.8	73.3	<0.002	0.01	2.95	12.8	<1	1.5	36.5	0.71	<0.05	4.89	0.415
TRD001665		31.4	620	8.4	38.5	<0.002	0.01	0.43	12.0	<1	1.4	30.1	0.67	<0.05	2.22	0.459
TRD001666		31.7	620	8.8	44.1	<0.002	0.01	0.43	13.5	<1	1.3	28.9	0.72	<0.05	2.63	0.451
TRD001667		43.2	430	7.0	27.1	<0.002	0.04	0.17	39.0	<1	1.0	143.0	0.40	<0.05	3.63	0.420
TRD001668		22.6	440	22.3	123.0	<0.002	0.02	2.22	13.2	3	3.6	29.2	1.00	0.06	16.60	0.419
TRD001669		22.5	110	24.9	150.0	<0.002	0.03	2.65	13.7	3	4.4	26.3	1.06	0.07	21.9	0.372
TRD001670		19.3	100	22.8	113.5	<0.002	0.03	1.94	12.7	1	3.7	21.5	1.16	0.05	20.3	0.477
TRD001671		17.6	100	22.6	124.0	<0.002	0.02	1.46	13.2	<1	3.8	21.5	1.28	<0.05	19.95	0.509



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001632		0.22	1.5	105	2.3	13.1	77	25.6
TRD001633		0.23	1.2	104	2.0	10.2	75	23.9
TRD001634		0.55	2.2	95	3.0	11.0	37	88.4
TRD001635		0.72	2.7	111	2.8	12.3	43	106.0
TRD001636		0.72	2.7	121	2.8	12.0	41	109.5
TRD001637		0.80	2.9	118	2.9	10.9	43	125.0
TRD001638		0.68	2.8	131	3.0	10.8	34	114.5
TRD001639		0.65	2.6	114	2.7	8.8	34	106.0
TRD001640		0.58	2.7	128	2.9	9.5	28	100.5
TRD001641		0.67	3.0	129	2.5	14.2	42	78.3
TRD001642		0.67	2.9	94	2.3	22.8	56	52.0
TRD001643		0.61	3.5	113	1.5	27.0	67	55.4
TRD001644		1.27	3.8	105	16.3	48.4	149	42.0
TRD001645		2.05	2.8	97	10.2	41.3	191	24.1
TRD001646		0.77	2.3	82	7.5	12.0	93	105.0
TRD001647		<0.02	0.1	2	0.1	0.7	3	9.1
TRD001648		0.70	1.7	97	0.8	15.0	112	32.7
TRD001649		0.22	1.9	101	0.8	9.9	98	36.1
TRD001650		0.25	1.7	101	1.1	14.6	101	26.2
TRD001651		0.21	1.9	124	0.8	15.0	102	28.7
TRD001652		0.18	1.7	99	0.4	8.2	116	30.6
TRD001653		0.29	2.1	131	0.5	12.7	142	34.1
TRD001654		0.28	1.3	120	0.4	3.9	124	26.6
TRD001655		0.30	1.9	122	0.7	4.7	118	29.8
TRD001656		0.31	1.8	119	0.6	4.6	112	29.9
TRD001657		0.29	1.9	118	0.6	5.6	99	28.7
TRD001658		0.28	2.4	116	0.6	5.1	93	30.5
TRD001659		0.30	2.2	108	0.8	10.5	97	31.0
TRD001660		0.31	1.9	117	0.8	5.6	91	33.9
TRD001661		0.30	2.2	106	0.8	8.4	83	36.2
TRD001662		0.29	1.6	101	0.4	9.5	85	30.3
TRD001663		0.30	1.9	108	0.5	4.3	86	27.2
TRD001664		0.32	2.1	120	1.0	16.3	93	32.3
TRD001665		0.27	1.6	119	0.6	5.3	100	30.4
TRD001666		0.31	1.7	117	0.5	6.1	100	29.9
TRD001667		0.22	0.9	228	0.4	23.0	87	106.5
TRD001668		0.56	2.4	133	3.0	12.6	55	75.3
TRD001669		0.75	2.6	123	2.5	9.7	43	99.3
TRD001670		0.50	2.6	110	2.4	14.9	38	96.5
TRD001671		0.59	2.4	90	2.5	21.9	31	93.1



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-AA23	Au-GRA21	ME-MS61										
		Recvd Wt. kg	Pass75um %	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.01	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
TRD001672		1.58		0.015		0.10	9.66	17.3	210	0.69	0.05	0.02	<0.02	41.9	5.2	25
TRD001673		1.77		0.015		0.05	8.11	171.0	460	1.19	0.25	0.03	0.06	44.9	16.5	24
TRD001674		1.80		0.014		0.13	7.56	159.0	760	1.20	0.04	0.03	0.13	48.3	32.7	22
TRD001675		1.82		0.008		0.09	7.71	187.0	560	1.12	0.04	0.03	0.13	83.2	24.1	23
TRD001676		1.87		0.017		0.13	7.59	233	590	1.27	0.15	0.04	0.35	47.3	24.3	24
TRD001677		2.15		0.019		0.04	9.97	127.5	350	0.94	0.04	0.04	0.06	44.2	15.2	23
TRD001678		2.05		0.016		0.05	7.06	117.0	320	0.98	0.03	0.03	0.03	56.1	10.5	25
TRD001679		1.75		0.014		0.04	9.13	95.3	350	0.92	0.03	0.07	0.03	28.4	9.6	23
TRD001680		1.58		0.011		0.04	7.48	86.9	380	1.14	0.03	0.08	0.04	29.7	10.3	24
TRD001681		1.59		0.014		0.28	6.71	94.6	710	1.12	0.03	0.08	0.24	16.75	14.8	24
TRD001682		1.96		0.011		0.13	10.05	119.5	580	1.32	0.03	0.13	0.12	36.8	14.3	26
TRD001683		2.17		0.043		0.27	8.11	305	1120	1.50	0.04	0.14	0.24	23.5	14.3	26
TRD001684		2.09		0.005		0.17	8.88	168.0	610	1.23	0.04	0.17	0.15	26.5	13.7	25
TRD001685		1.75		0.014		0.07	7.88	115.5	450	1.27	0.02	0.25	0.07	21.1	12.3	27
TRD001686		2.34		<0.005		0.04	7.66	102.5	410	1.69	0.02	0.97	0.07	26.4	13.5	25
TRD001687		2.52		0.006		0.05	8.02	126.0	510	1.87	0.03	1.23	0.08	28.5	13.5	29
TRD001688		2.49		<0.005		0.04	8.39	92.1	430	1.52	0.06	1.56	0.06	32.4	11.0	26
TRD001689		2.20		<0.005		0.05	7.21	102.0	430	1.63	0.04	1.27	0.05	35.1	11.4	26
TRD001690		2.13		<0.005		0.03	7.56	102.5	420	1.54	0.05	1.21	0.06	22.3	11.3	28
TRD001691		1.65		0.014		0.05	8.12	2.3	220	0.83	0.05	6.66	0.10	29.8	40.4	5
TRD001692		0.07		1.085		0.28	6.93	54.1	130	0.45	0.04	7.16	0.55	12.60	41.1	118
TRD001693		0.07		3.24		0.23	7.62	655	690	2.26	0.41	0.80	0.06	85.8	13.6	128



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**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														
		Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.2	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
TRD001672		5.30	11.2	2.70	20.9	0.05	2.0	0.041	1.04	22.4	15.7	0.49	217	0.47	0.04	8.8
TRD001673		6.06	15.4	4.28	22.5	0.14	1.8	0.048	1.30	32.5	17.5	0.48	1445	0.45	0.06	8.6
TRD001674		4.49	15.2	3.90	24.8	0.11	1.8	0.045	1.21	28.2	19.5	0.44	3350	0.66	0.07	8.3
TRD001675		5.75	14.0	4.04	25.1	0.16	1.9	0.053	1.33	54.8	19.9	0.50	2120	0.65	0.06	8.8
TRD001676		4.70	14.5	4.04	24.0	0.12	1.8	0.040	1.36	30.2	20.7	0.50	3320	0.91	0.07	8.6
TRD001677		3.83	14.1	4.20	23.9	0.06	1.8	0.043	1.34	24.7	20.9	0.69	806	0.73	0.06	8.9
TRD001678		3.56	13.3	3.90	24.8	0.17	1.8	0.041	1.26	35.0	20.2	0.49	490	0.61	0.07	9.0
TRD001679		2.53	14.8	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
TRD001680		3.40	13.4	3.85	21.5	0.10	1.7	0.042	1.32	15.2	21.9	0.56	570	0.59	0.26	8.0
TRD001681		2.96	12.3	3.76	21.5	0.08	1.5	0.041	1.26	7.3	21.3	0.49	3380	0.74	0.29	7.9
TRD001682		3.43	10.4	4.12	22.0	0.06	1.8	0.039	1.46	17.2	21.6	0.67	1675	0.89	0.47	8.0
TRD001683		4.17	10.4	4.04	19.85	0.06	1.6	0.034	1.42	10.2	17.4	0.55	4150	0.56	0.68	7.6
TRD001684		3.89	10.9	4.15	21.0	0.06	1.7	0.039	1.39	10.9	22.6	0.70	1760	0.64	0.62	7.9
TRD001685		2.70	8.8	3.95	20.7	0.07	1.6	0.031	1.32	9.2	21.9	0.67	984	0.50	0.86	7.9
TRD001686		2.82	8.1	3.86	19.60	0.07	1.4	0.038	1.18	11.8	21.1	0.77	917	0.39	1.64	7.6
TRD001687		3.23	9.0	4.34	19.65	0.06	1.5	0.034	1.16	11.7	21.5	0.83	1345	0.51	1.91	7.6
TRD001688		3.49	8.2	3.96	19.45	0.06	1.4	0.030	1.18	14.9	21.9	0.96	704	0.68	2.23	7.1
TRD001689		3.63	8.2	4.03	20.1	0.12	1.5	0.025	1.18	17.8	20.5	0.83	722	0.57	2.03	7.8
TRD001690		2.88	8.3	4.12	19.15	0.07	1.4	0.029	1.17	10.3	19.5	0.81	742	0.61	1.92	7.4
TRD001691		1.74	131.0	7.43	17.45	0.06	3.1	0.061	0.80	13.9	12.6	2.58	1290	0.50	1.46	5.3
TRD001692		0.80	166.5	7.76	15.70	0.06	1.6	0.074	0.35	4.7	11.8	3.82	1325	0.88	1.67	3.1
TRD001693		10.60	31.6	4.01	20.1	0.11	4.0	0.069	2.73	40.2	44.9	1.56	345	0.68	0.72	14.4

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Project: Panama Project

**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														
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	%							
		0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
TRD001672		9.4	80	11.8	59.6	<0.002	0.01	0.94	11.9	<1	1.4	11.4	0.77	<0.05	7.95	0.379
TRD001673		14.0	270	12.0	54.0	<0.002	0.01	1.89	11.0	<1	1.4	13.8	0.68	<0.05	6.42	0.371
TRD001674		17.0	210	12.2	52.5	<0.002	0.01	1.82	12.6	<1	1.3	19.8	0.73	<0.05	7.13	0.363
TRD001675		18.0	190	13.0	93.2	<0.002	0.01	2.00	14.9	<1	1.2	21.8	0.72	<0.05	11.80	0.357
TRD001676		28.0	210	11.2	68.3	<0.002	0.01	2.15	12.8	<1	1.4	23.7	0.66	<0.05	7.59	0.367
TRD001677		23.1	200	13.2	67.0	<0.002	0.01	1.23	12.6	<1	1.4	24.1	0.70	<0.05	7.71	0.380
TRD001678		17.2	180	12.6	77.8	<0.002	0.01	1.24	12.8	<1	1.3	24.8	0.70	<0.05	9.38	0.361
TRD001679		16.9	200	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
TRD001680		18.9	190	11.2	51.2	<0.002	0.01	1.25	9.8	<1	1.3	28.1	0.63	<0.05	5.78	0.355
TRD001681		24.1	180	10.4	32.2	<0.002	0.01	1.50	8.0	<1	1.2	28.4	0.62	<0.05	3.58	0.347
TRD001682		22.6	240	10.8	60.9	<0.002	0.01	2.05	12.4	<1	1.2	41.2	0.64	<0.05	6.98	0.370
TRD001683		21.9	290	9.6	49.8	<0.002	0.01	5.83	10.0	<1	1.2	52.7	0.60	<0.05	4.36	0.339
TRD001684		20.8	200	12.8	60.7	<0.002	0.01	4.17	11.4	<1	1.3	45.8	0.62	<0.05	5.44	0.347
TRD001685		23.4	220	10.1	61.6	<0.002	0.01	1.09	8.9	<1	1.3	61.3	0.59	<0.05	4.48	0.357
TRD001686		21.8	370	8.8	66.2	<0.002	0.01	0.87	8.9	<1	1.2	183.0	0.55	<0.05	4.88	0.337
TRD001687		26.5	550	9.0	113.5	<0.002	0.01	1.24	9.7	<1	1.2	234	0.57	<0.05	4.84	0.340
TRD001688		18.2	570	8.6	99.7	<0.002	0.01	0.88	9.7	<1	1.2	288	0.52	<0.05	5.38	0.320
TRD001689		18.8	510	9.3	138.0	<0.002	0.01	0.89	10.2	<1	1.3	236	0.57	<0.05	6.23	0.338
TRD001690		19.8	500	9.4	84.5	<0.002	0.01	0.92	8.2	<1	1.2	226	0.55	<0.05	4.49	0.334
TRD001691		44.5	440	7.0	34.5	<0.002	0.04	0.20	41.0	1	1.1	148.0	0.36	<0.05	3.71	0.410
TRD001692		86.7	410	20.5	11.0	0.003	0.32	1.12	42.2	1	0.9	180.5	0.20	0.10	0.81	0.571
TRD001693		63.0	580	20.2	166.5	<0.002	0.14	589	16.4	<1	3.7	99.0	1.08	<0.05	15.30	0.473

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**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	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.1	1	0.1	0.1	2	0.5
TRD001672		0.26	2.0	66	0.5	10.4	58	48.5
TRD001673		0.32	2.8	88	0.4	22.0	80	47.0
TRD001674		0.32	3.2	84	0.5	19.7	88	44.7
TRD001675		0.33	3.1	87	0.4	31.6	91	46.1
TRD001676		0.34	2.3	95	0.6	17.8	117	44.8
TRD001677		0.31	2.1	76	0.2	12.3	82	45.9
TRD001678		0.30	2.5	71	0.2	15.6	79	45.9
TRD001679		0.25	2.4	72	0.2	11.8	83	44.2
TRD001680		0.28	2.0	76	0.4	11.7	88	44.9
TRD001681		0.27	1.7	78	0.4	6.6	126	39.9
TRD001682		0.29	2.2	87	0.6	14.9	97	42.8
TRD001683		0.37	2.1	105	4.1	13.2	102	39.8
TRD001684		0.28	1.9	87	2.4	10.5	93	42.2
TRD001685		0.26	1.8	74	0.7	7.5	92	40.1
TRD001686		0.23	1.7	80	0.8	10.2	99	37.5
TRD001687		0.26	2.2	88	1.6	12.5	113	39.0
TRD001688		0.23	2.0	84	1.2	10.7	84	36.1
TRD001689		0.25	2.0	85	1.2	11.7	90	43.2
TRD001690		0.24	1.9	85	1.1	8.7	92	35.9
TRD001691		0.20	1.0	225	0.4	23.4	85	105.0
TRD001692		0.17	0.2	255	24.5	19.8	133	49.5
TRD001693		0.85	2.5	106	2.8	17.4	100	130.0

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<b>CERTIFICATE OF ANALYSIS BU22106480</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