



Australian Laboratory Services Pty. Ltd.

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To: PACIFICO MINERALS LTD
LEVEL 11, LONDON HOUSE
216 ST GEORGES TERRACE
PERTH WA 6000

Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 10-OCT-2017
Account: PACIFMIN

CERTIFICATE MI17207436

This report is for 144 Drill Core samples submitted to our lab in Mount Isa, QLD, Australia on 27-SEP-2017.

The following have access to data associated with this certificate:

BARRIE BOLTON

DAVID PASCOE (PASMINEX)

DAVID PASCOE57 (YAHOO)

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LEV-02	Remote Lab Surcharge
SPL-22	Split sample - rotary splitter
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode
PUL-32	Pulverize 1000g to 85% < 75 um
PUL-QC	Pulverizing QC Test
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	ICP-AES

To: PACIFICO MINERALS LTD
ATTN: DAVID PASCOE (PASMINEX)
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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 MI17207436

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
93901		2.69		0.11	0.05	10.7	<0.02	<10	2490	0.30	0.06	15.95	0.01	5.53	6.8	3
93902		2.60		0.18	0.04	16.7	<0.02	<10	930	0.28	0.16	16.70	0.01	4.28	10.3	3
93903		2.87		0.13	0.03	13.7	<0.02	<10	2360	0.29	0.84	15.75	<0.01	3.71	9.1	3
93904		2.91		0.21	0.07	25.4	<0.02	<10	10	0.39	3.79	14.80	0.01	3.28	18.5	4
93905		2.87		0.16	0.04	19.0	<0.02	<10	170	0.32	4.00	16.55	0.02	5.16	13.0	3
93906		2.82		0.13	0.03	11.9	<0.02	<10	1650	0.26	2.90	18.00	<0.01	3.77	7.9	2
93907		2.76		0.15	0.02	13.6	<0.02	<10	1010	0.25	3.48	17.35	<0.01	3.55	8.3	2
93908		2.94		0.11	0.02	11.9	<0.02	<10	2860	0.22	2.81	17.35	<0.01	2.93	7.8	2
93909		2.68		0.13	0.03	14.3	<0.02	<10	1440	0.25	2.52	15.95	<0.01	3.97	8.6	2
93910		<0.02		5.13	3.01	9.1	<0.02	<10	40	0.47	77.3	0.35	0.60	48.3	30.3	38
93911		3.20		0.18	0.03	20.4	<0.02	<10	2390	0.20	9.56	15.70	0.01	3.37	13.0	3
93912		2.71		0.12	0.01	13.2	<0.02	<10	1230	0.17	111.5	14.20	0.01	2.20	11.1	2
93913		2.70	92.3	1.06	0.02	51.7	<0.02	<10	60	0.19	13.40	15.15	0.01	2.35	28.9	2
93914		2.81		0.50	0.01	106.0	<0.02	<10	150	0.17	7.99	15.70	0.01	2.15	19.7	2
93915		3.26		0.72	0.02	64.9	<0.02	<10	380	0.19	11.05	17.25	0.05	2.34	32.5	2
93916		2.85		0.38	0.02	58.7	<0.02	<10	2730	0.22	7.49	17.70	<0.01	2.33	33.1	2
93917		2.93		0.29	0.02	61.3	<0.02	<10	40	0.19	4.92	17.10	0.01	2.18	33.1	1
93918		2.88		0.42	0.03	71.6	<0.02	<10	120	0.26	3.48	16.70	0.01	2.49	49.0	3
93919		3.00		0.11	0.06	11.5	<0.02	<10	1440	0.26	0.19	13.60	<0.01	4.33	8.0	2
93920		<0.02		5.10	2.92	9.4	<0.02	<10	40	0.46	71.2	0.34	0.61	48.8	30.7	37
93921		2.68		0.23	0.02	34.7	<0.02	<10	1750	0.21	0.13	14.45	0.02	2.11	16.7	2
93922		2.67		1.40	0.02	60.6	<0.02	<10	300	0.27	0.08	14.70	0.01	2.23	32.6	2
93923		3.52		0.24	0.01	53.7	<0.02	<10	1500	0.23	0.07	11.15	0.02	1.11	17.0	7
93924		3.05		0.41	0.01	87.0	<0.02	<10	670	0.26	0.04	14.30	0.11	1.61	30.5	2
93925		2.98		0.28	0.01	35.4	<0.02	<10	2530	0.19	0.03	16.75	0.05	1.86	13.0	2
93926		3.08		0.17	0.03	18.1	<0.02	<10	3210	0.35	0.06	15.75	0.02	2.40	11.1	3
93927		2.62		0.26	0.03	29.7	<0.02	<10	3100	0.38	0.14	16.85	0.02	3.09	17.0	2
93928		3.01		0.13	0.03	20.1	<0.02	<10	2810	0.25	0.08	16.25	0.01	3.52	12.1	2
93929		3.19		0.11	0.01	11.7	<0.02	<10	2990	0.22	0.07	13.05	0.01	2.43	6.8	2
93930		<0.02		4.92	2.85	9.9	<0.02	<10	40	0.45	78.0	0.33	0.59	50.3	30.9	35
93931		2.99		0.94	0.03	49.4	<0.02	<10	80	0.41	1.45	18.00	0.01	3.33	38.1	2
93932		2.88		0.52	0.05	30.2	<0.02	<10	270	0.32	2.03	15.95	0.01	4.03	24.3	4
93933		2.74		0.53	0.06	34.8	<0.02	<10	120	0.36	1.07	16.25	0.04	3.44	27.7	3
93934		3.28		0.71	0.04	16.0	<0.02	<10	50	0.36	0.48	16.80	0.01	4.67	15.3	2
93935		2.98		0.89	0.04	24.1	<0.02	<10	40	0.28	1.74	18.10	0.01	3.29	19.9	1
93936		2.94		0.46	0.03	17.1	<0.02	<10	20	0.33	3.12	18.85	0.01	3.31	14.9	1
93937		2.99		0.32	0.03	13.6	<0.02	<10	10	0.28	2.38	19.05	0.01	2.49	8.9	1
93938		2.98	91.0	0.41	0.04	12.8	<0.02	<10	20	0.28	2.57	17.55	0.01	3.44	8.2	2
93939		3.23		0.43	0.06	23.4	<0.02	<10	10	0.25	3.54	18.40	0.01	3.14	14.6	2
93940		<0.02		4.83	2.97	10.1	<0.02	<10	40	0.44	84.8	0.34	0.60	48.6	31.8	37



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
93901		0.09	49.1	1.10	0.25	<0.05	0.06	<0.01	0.113	0.04	1.9	1.8	9.17	867	0.64
93902		0.06	28.0	1.14	0.24	<0.05	0.05	<0.01	0.117	0.03	1.3	1.4	9.59	915	1.07
93903		0.07	85.1	1.10	0.18	<0.05	0.05	<0.01	0.113	0.03	1.0	1.2	9.16	831	1.09
93904		0.10	129.0	1.16	0.30	<0.05	0.08	0.01	0.120	0.06	1.1	1.2	8.51	837	1.90
93905		0.07	95.4	1.14	0.22	<0.05	0.06	0.01	0.137	0.04	1.6	1.3	9.55	964	0.89
93906		<0.05	96.2	1.07	0.16	<0.05	0.04	<0.01	0.130	0.02	1.0	1.5	10.40	926	1.55
93907		<0.05	73.8	1.00	0.10	<0.05	0.04	0.01	0.124	0.02	0.9	1.3	10.05	866	1.98
93908		<0.05	87.8	1.07	0.09	<0.05	0.05	<0.01	0.144	0.02	0.7	1.2	10.05	892	3.74
93909		<0.05	87.0	1.05	0.24	<0.05	0.07	<0.01	0.129	0.03	1.0	1.4	9.20	816	1.38
93910		1.55	>10000	8.31	8.84	0.17	0.57	0.06	1.335	0.21	25.8	30.9	1.55	922	1.10
93911		<0.05	117.5	1.09	0.12	<0.05	0.10	0.01	0.117	0.03	1.0	0.9	8.98	881	2.93
93912		<0.05	411	0.97	0.07	<0.05	0.03	<0.01	0.138	0.01	0.6	1.1	8.25	715	1.32
93913		<0.05	1000	1.43	0.11	<0.05	0.03	0.02	0.204	0.02	0.6	1.3	8.69	776	19.55
93914		<0.05	1990	1.61	0.08	<0.05	0.02	0.02	0.243	0.01	0.5	1.1	8.97	850	7.57
93915		<0.05	1740	1.47	0.11	<0.05	0.02	0.02	0.278	0.01	0.6	1.0	9.94	1040	13.85
93916		<0.05	425	1.34	0.10	<0.05	0.03	<0.01	0.264	0.01	0.6	1.1	10.05	1150	4.62
93917		<0.05	289	1.19	0.09	<0.05	0.02	0.01	0.206	0.01	0.6	1.1	9.81	1020	3.27
93918		<0.05	422	1.19	0.13	<0.05	0.04	<0.01	0.190	0.02	0.7	0.9	9.53	1050	2.22
93919		0.14	292	1.51	0.25	<0.05	0.10	<0.01	0.291	0.04	1.4	1.0	7.60	965	1.15
93920		1.58	>10000	8.07	8.76	0.17	0.55	0.07	1.350	0.20	25.6	26.4	1.50	899	1.11
93921		<0.05	820	1.26	0.12	<0.05	0.03	<0.01	0.359	0.02	0.6	0.8	8.35	788	1.58
93922		<0.05	7030	1.29	0.11	<0.05	0.05	<0.01	0.308	0.02	0.7	1.1	8.38	757	1.58
93923		<0.05	1360	0.93	0.08	<0.05	0.02	<0.01	0.251	0.01	0.4	0.7	6.49	581	2.08
93924		<0.05	2550	1.14	0.09	<0.05	<0.02	0.01	0.337	0.01	0.6	0.7	8.16	708	7.29
93925		<0.05	329	1.11	0.08	<0.05	0.02	<0.01	0.353	0.01	0.6	0.7	9.55	841	1.14
93926		0.06	165.5	1.19	0.16	<0.05	0.04	<0.01	0.298	0.02	0.7	1.1	8.96	881	0.97
93927		0.05	218	1.15	0.15	<0.05	0.09	<0.01	0.225	0.02	0.9	1.1	9.60	874	1.27
93928		0.06	250	0.96	0.18	<0.05	0.07	<0.01	0.289	0.02	1.1	1.1	9.40	800	0.68
93929		<0.05	198.5	0.80	0.08	<0.05	0.02	0.01	0.211	0.01	0.7	1.1	7.54	614	0.76
93930		1.59	>10000	7.86	8.61	0.18	0.55	0.07	1.390	0.20	25.7	26.2	1.46	877	1.09
93931		0.05	1580	2.42	0.17	<0.05	0.04	0.01	0.426	0.02	1.0	0.8	9.88	1920	1.90
93932		0.08	1100	1.82	0.19	<0.05	0.06	0.01	0.272	0.04	1.3	0.7	8.83	1280	2.53
93933		0.08	1060	2.01	0.22	<0.05	0.06	0.01	0.319	0.04	1.1	0.7	8.94	1560	2.28
93934		0.07	1550	2.20	0.26	<0.05	0.06	0.01	0.403	0.03	1.4	1.4	9.30	1620	1.45
93935		0.05	2640	2.07	0.22	<0.05	0.05	<0.01	0.434	0.03	0.9	1.5	10.15	1420	3.56
93936		<0.05	1170	2.03	0.14	<0.05	0.04	<0.01	0.394	0.02	0.9	1.1	10.45	1460	1.93
93937		<0.05	1490	1.94	0.15	<0.05	0.07	<0.01	0.394	0.02	0.6	1.8	10.60	1280	3.59
93938		<0.05	2590	2.01	0.15	<0.05	0.10	<0.01	0.357	0.03	1.1	1.0	9.66	1270	3.95
93939		0.07	1250	1.92	0.24	<0.05	0.14	<0.01	0.338	0.04	1.0	1.0	10.15	1340	2.47
93940		1.57	>10000	8.20	8.70	0.16	0.57	0.06	1.385	0.20	24.4	25.1	1.50	910	1.07



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01
93901		<0.05	2.2	80	5.6	1.3	0.001	0.15	1.25	1.1	0.4	0.2	83.6	<0.01	0.01
93902		<0.05	2.9	60	10.0	1.1	0.001	0.12	2.41	0.9	0.3	<0.2	43.9	<0.01	0.02
93903		<0.05	2.9	50	7.3	1.0	0.001	0.16	2.18	1.0	0.3	0.2	63.9	<0.01	0.02
93904		<0.05	5.5	70	10.4	1.7	<0.001	0.20	4.05	1.7	0.3	0.2	23.8	<0.01	0.02
93905		<0.05	3.7	120	9.5	1.1	0.001	0.16	2.36	0.9	0.4	<0.2	33.4	<0.01	0.01
93906		<0.05	2.4	50	8.1	0.7	0.001	0.13	1.18	0.6	0.3	<0.2	55.7	<0.01	0.02
93907		0.13	2.7	30	7.9	0.4	0.001	0.12	1.22	0.5	0.4	<0.2	42.0	<0.01	0.01
93908		<0.05	2.3	30	5.1	0.3	0.001	0.14	1.09	0.6	0.3	<0.2	74.0	<0.01	<0.01
93909		<0.05	2.9	40	13.6	0.7	<0.001	0.13	1.57	1.0	0.3	0.2	43.9	<0.01	<0.01
93910		0.43	30.3	540	118.5	13.1	<0.001	1.97	0.88	3.6	21.0	16.6	14.1	0.01	0.05
93911		<0.05	4.0	30	7.8	0.7	0.002	0.15	1.98	1.1	0.2	0.2	112.0	<0.01	<0.01
93912		<0.05	3.3	20	13.9	0.3	<0.001	0.18	6.44	0.4	0.3	<0.2	116.0	<0.01	0.01
93913		<0.05	10.4	20	72.6	0.4	0.011	0.66	4.03	0.5	0.4	0.2	26.7	<0.01	0.01
93914		<0.05	9.6	10	23.5	0.2	0.004	0.73	5.42	0.3	0.4	0.3	52.3	<0.01	<0.01
93915		<0.05	18.6	10	27.8	0.3	0.021	0.41	4.53	0.3	0.4	<0.2	96.4	<0.01	0.01
93916		<0.05	15.7	20	7.3	0.4	0.008	0.18	2.40	0.4	0.4	<0.2	130.5	<0.01	<0.01
93917		<0.05	17.3	20	5.0	0.4	0.005	0.07	2.49	0.4	0.4	0.2	24.8	<0.01	<0.01
93918		<0.05	17.8	30	6.6	0.6	0.002	0.13	2.94	0.6	0.3	<0.2	25.8	<0.01	0.01
93919		<0.05	3.0	40	3.7	1.8	0.001	0.15	0.90	1.2	0.3	0.2	77.9	<0.01	<0.01
93920		0.39	29.9	520	117.5	13.2	<0.001	1.90	1.01	3.6	21.2	16.5	14.0	0.01	0.05
93921		<0.05	5.4	10	3.1	0.7	0.002	0.16	27.2	0.4	0.3	<0.2	81.2	<0.01	<0.01
93922		<0.05	10.7	20	1.8	0.5	0.001	0.43	6.77	0.4	0.4	0.3	91.2	<0.01	0.01
93923		<0.05	6.4	10	1.5	0.2	0.002	0.15	25.7	0.1	0.2	<0.2	67.2	<0.01	<0.01
93924		<0.05	11.4	10	3.1	0.3	0.013	0.28	129.5	0.2	0.3	0.2	60.4	<0.01	0.01
93925		<0.05	4.5	20	2.8	0.3	0.001	0.12	59.9	0.2	0.3	<0.2	69.1	<0.01	<0.01
93926		<0.05	3.3	20	2.9	0.8	0.001	0.12	12.95	0.4	0.3	<0.2	56.8	<0.01	<0.01
93927		0.05	4.3	30	7.2	0.8	0.002	0.14	18.85	0.5	0.4	<0.2	82.3	<0.01	0.01
93928		<0.05	3.7	40	3.6	0.9	<0.001	0.12	10.10	0.6	0.3	<0.2	102.0	<0.01	0.02
93929		<0.05	2.3	20	14.9	0.4	0.002	0.11	14.25	0.3	0.3	<0.2	78.9	<0.01	<0.01
93930		0.38	28.5	510	117.5	12.9	<0.001	1.85	0.93	3.4	20.8	16.5	14.3	0.01	0.04
93931		<0.05	10.7	30	13.3	0.9	0.006	0.28	2.28	0.6	0.4	<0.2	23.0	<0.01	<0.01
93932		<0.05	6.6	60	5.6	1.3	0.005	0.19	1.24	1.5	0.4	<0.2	24.3	<0.01	<0.01
93933		<0.05	9.4	50	6.1	1.5	0.007	0.20	1.45	1.2	0.4	<0.2	24.0	<0.01	<0.01
93934		<0.05	4.0	80	11.7	1.2	0.003	0.32	1.85	0.7	0.4	<0.2	21.8	<0.01	0.01
93935		<0.05	5.5	40	11.7	1.1	0.006	0.34	2.21	0.5	0.5	<0.2	22.1	<0.01	0.02
93936		<0.05	3.7	30	11.1	0.7	0.003	0.21	0.76	0.5	0.4	<0.2	24.1	<0.01	0.01
93937		<0.05	3.0	30	3.5	0.7	0.012	0.17	0.74	0.5	0.5	<0.2	25.4	<0.01	0.01
93938		<0.05	3.1	30	5.0	0.8	0.006	0.29	1.06	0.8	0.4	<0.2	25.6	<0.01	0.02
93939		<0.05	5.0	30	5.2	1.3	0.007	0.18	0.88	1.2	0.4	<0.2	23.2	<0.01	0.01
93940		0.40	30.0	540	121.0	13.6	<0.001	1.97	0.92	3.5	21.4	16.2	14.6	0.02	0.04



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Cu-OG46 Cu %	Pb-OG46 Pb %	CRU-QC Pass2mm %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.01
93901		<0.005	0.10	0.22	4	0.05	3.61	6	2.3			
93902		<0.005	0.21	0.23	4	<0.05	2.70	6	1.8			
93903		<0.005	0.13	0.16	4	<0.05	2.83	6	1.6			
93904		<0.005	0.19	0.24	8	<0.05	2.78	9	2.7			
93905		<0.005	0.25	0.35	6	<0.05	3.64	9	2.3			
93906		<0.005	0.23	0.26	3	<0.05	2.69	9	1.3			
93907		<0.005	0.21	0.23	3	<0.05	2.38	6	1.2			
93908		<0.005	0.10	0.32	3	<0.05	2.52	5	2.2			
93909		<0.005	0.24	0.25	3	<0.05	3.23	6	2.4			
93910		0.063	0.11	1.53	30	7.64	10.50	419	20.0	1.520		
93911		<0.005	0.12	0.29	3	<0.05	3.33	8	3.2			
93912		<0.005	0.24	0.20	2	<0.05	1.98	4	1.0			
93913		<0.005	1.64	0.25	3	<0.05	2.09	7	1.1			
93914		<0.005	0.27	0.20	2	<0.05	2.09	5	0.5			
93915		<0.005	0.37	0.31	2	<0.05	2.48	23	0.8			
93916		<0.005	0.08	0.30	2	<0.05	2.35	6	0.9			
93917		<0.005	0.07	0.20	2	<0.05	1.74	12	0.8			
93918		<0.005	0.12	0.21	3	<0.05	1.92	7	1.8			
93919		<0.005	0.04	0.51	4	<0.05	3.92	7	2.7			
93920		0.059	0.10	1.49	29	6.50	10.45	415	19.7	1.510		
93921		<0.005	0.04	0.37	2	<0.05	2.01	11	1.1			
93922		<0.005	0.02	0.37	2	<0.05	1.75	7	1.6			
93923		<0.005	0.02	0.34	1	<0.05	0.92	13	<0.5			
93924		<0.005	0.03	0.30	1	<0.05	1.13	39	0.5			
93925		<0.005	0.03	0.44	1	<0.05	1.28	22	0.7			
93926		<0.005	0.03	0.27	2	<0.05	1.79	12	1.1			
93927		<0.005	0.08	0.35	3	<0.05	2.04	12	2.8			
93928		<0.005	0.08	0.31	3	<0.05	2.20	10	2.2			
93929		<0.005	0.03	0.23	2	<0.05	1.34	8	0.8			
93930		0.059	0.11	1.51	29	6.16	10.35	402	19.8	1.520		
93931		<0.005	0.44	0.24	3	<0.05	3.25	10	1.5			
93932		<0.005	0.12	0.25	7	<0.05	3.32	8	2.1			
93933		<0.005	0.12	0.30	6	<0.05	3.22	18	2.3			
93934		<0.005	0.36	0.31	5	<0.05	3.93	7	2.5			
93935		<0.005	0.24	0.36	4	<0.05	3.23	7	1.4			
93936		<0.005	0.19	0.31	3	<0.05	3.32	10	1.2			
93937		<0.005	0.03	0.51	3	<0.05	2.90	7	2.1			
93938		<0.005	0.09	0.56	3	<0.05	3.34	11	2.8			
93939		<0.005	0.06	0.45	4	<0.05	2.97	7	3.2			
93940		0.060	0.11	1.70	30	7.07	10.40	428	20.0	1.555		



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
93941		2.75		0.35	0.02	21.9	<0.02	<10	10	0.19	3.53	18.05	0.01	1.96	14.2	3
93942		3.46		0.52	0.02	32.9	<0.02	<10	20	0.18	4.71	18.20	0.02	1.94	18.0	1
93943		2.85		0.55	0.02	54.6	<0.02	<10	10	0.19	5.15	18.30	0.01	2.05	33.6	1
93944		3.01		0.72	0.02	81.8	<0.02	<10	10	0.24	8.05	17.20	0.01	2.02	51.7	1
93945		2.73		0.53	0.02	80.9	<0.02	<10	10	0.22	6.76	17.65	0.01	2.01	47.0	1
93946		3.35		0.63	0.02	49.1	<0.02	<10	<10	0.19	7.88	18.85	0.01	2.51	34.2	1
93947		2.87		0.79	0.03	28.2	<0.02	<10	<10	0.24	9.25	18.25	0.01	2.62	20.0	2
93948		2.93		1.87	0.03	128.0	<0.02	<10	20	0.17	22.4	16.35	0.01	2.55	88.9	2
93949		2.86		2.91	0.05	132.5	<0.02	<10	10	0.16	43.2	8.16	0.02	1.86	70.1	17
93950		<0.02		5.47	3.06	10.0	<0.02	<10	40	0.38	87.4	0.35	0.59	49.3	31.9	39
93951		2.72		0.51	0.06	28.4	<0.02	<10	10	0.39	8.03	17.30	0.01	3.69	20.8	2
93952		2.89		0.52	0.03	43.1	<0.02	<10	10	0.27	8.11	17.75	0.01	3.85	29.1	2
93953		3.05		0.49	0.02	56.8	<0.02	<10	<10	0.23	7.71	18.50	0.01	2.60	37.4	1
93954		2.34		0.29	0.02	29.4	<0.02	<10	10	0.27	3.60	16.90	0.01	2.84	18.6	3
93955		2.95		0.24	0.05	30.5	<0.02	<10	10	0.28	3.96	16.25	0.01	3.57	17.8	3
93956		2.93		0.47	0.02	60.5	<0.02	<10	<10	0.28	6.81	17.55	0.01	2.93	30.4	2
93957		2.99		0.47	0.04	37.8	<0.02	<10	10	0.31	5.04	18.15	0.01	4.03	24.6	2
93958		2.97		0.59	0.04	36.1	<0.02	<10	<10	0.24	7.23	17.25	0.01	3.28	23.4	3
93959		2.98		0.37	0.02	21.8	<0.02	<10	10	0.30	5.51	18.15	<0.01	3.07	15.0	2
93960		<0.02		5.09	3.00	9.5	<0.02	<10	40	0.39	81.1	0.34	0.57	48.6	30.0	37
93961		2.78		0.50	1.43	11.8	<0.02	10	80	1.56	0.67	1.73	0.04	33.5	29.3	18
93962		2.50		0.50	1.35	21.3	<0.02	10	50	1.66	4.60	0.20	0.01	34.9	50.1	19
93963		2.90		0.33	1.41	17.3	<0.02	20	50	1.60	7.42	1.25	0.01	33.5	38.7	20
93964		2.75		0.16	1.25	9.8	<0.02	10	50	1.51	5.73	0.14	<0.01	34.2	20.0	19
93965		2.76		0.32	1.32	17.0	<0.02	10	370	1.45	9.81	1.47	0.01	26.2	36.0	15
93966		2.67		0.17	1.72	10.1	<0.02	10	70	1.34	4.46	2.67	<0.01	33.4	32.6	21
93967		2.76		0.07	1.85	4.4	<0.02	20	70	1.64	0.88	0.18	<0.01	43.3	48.5	26
93968		2.60	98.6	0.18	0.23	6.3	<0.02	<10	280	0.53	1.24	14.85	0.02	16.85	11.9	3
93969		2.83		0.18	0.44	9.4	<0.02	<10	70	1.08	0.78	12.15	0.02	22.2	16.8	5
93970		<0.02		5.76	2.99	9.5	<0.02	<10	40	0.37	82.8	0.34	0.59	50.0	30.6	37
93971		3.47		0.16	0.57	7.1	<0.02	10	70	1.44	0.35	8.51	0.02	26.0	17.0	6
93972		2.97		0.16	0.47	8.1	<0.02	<10	30	1.24	0.27	7.58	0.01	25.5	15.7	5
93973		2.85		0.21	0.66	10.3	<0.02	10	50	1.45	0.35	4.58	0.01	32.0	24.7	8
93974		2.74		0.22	0.81	8.4	<0.02	10	50	1.67	0.36	3.44	0.01	33.5	27.4	9
93975		2.89		0.23	1.33	12.1	<0.02	10	40	1.48	0.40	0.90	0.01	38.5	27.4	16
93976		3.16		0.27	0.02	21.4	<0.02	<10	<10	0.23	3.37	17.40	0.01	3.05	15.3	3
93977		3.01		0.22	0.03	42.1	<0.02	<10	<10	0.26	3.47	18.70	0.01	3.23	25.4	2
93978		3.10		0.27	0.05	45.7	<0.02	<10	<10	0.11	5.45	18.95	0.01	4.39	27.1	3
93979		2.76		1.44	0.02	108.0	<0.02	<10	<10	0.09	17.05	16.80	0.03	3.00	60.6	3
93980		<0.02		6.17	2.93	9.5	<0.02	<10	40	0.36	84.2	0.33	0.57	49.4	29.8	36



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
93941		<0.05	1040	1.59	0.09	<0.05	0.03	0.01	0.327	0.01	0.5	1.0	10.15	1070	5.07
93942		<0.05	2960	1.80	0.09	<0.05	0.03	0.01	0.315	0.01	0.6	1.6	10.25	979	3.96
93943		<0.05	2110	1.67	0.09	<0.05	0.02	<0.01	0.397	0.01	0.5	1.0	10.25	1060	3.32
93944		<0.05	1880	1.82	0.09	<0.05	0.04	<0.01	0.464	0.01	0.5	1.2	9.57	1200	5.51
93945		<0.05	650	1.67	0.08	<0.05	0.04	<0.01	0.428	0.01	0.6	1.3	9.86	1200	3.01
93946		<0.05	815	1.90	0.10	<0.05	0.04	0.01	0.466	0.01	0.7	1.3	10.55	1330	3.61
93947		<0.05	510	2.03	0.11	<0.05	0.04	0.01	0.351	0.02	0.7	0.9	10.10	1600	4.99
93948		<0.05	3830	2.45	0.12	<0.05	0.06	0.01	1.245	0.02	0.6	0.6	8.85	1500	21.4
93949		<0.05	3350	2.13	0.19	<0.05	0.06	0.02	0.539	0.03	0.5	0.6	4.40	1160	57.2
93950		1.60	>10000	8.38	8.90	0.15	0.56	0.07	1.400	0.21	25.4	23.2	1.56	941	1.12
93951		0.05	266	2.49	0.20	<0.05	0.11	<0.01	0.453	0.04	1.7	0.7	9.17	2320	2.60
93952		<0.05	466	2.34	0.13	<0.05	0.07	<0.01	0.565	0.02	1.1	0.9	9.68	1730	3.03
93953		<0.05	342	2.23	0.09	<0.05	0.05	<0.01	0.462	0.01	0.8	1.1	10.05	1660	3.16
93954		<0.05	72.3	1.92	0.10	<0.05	0.07	<0.01	0.504	0.02	0.7	1.0	9.31	1420	3.69
93955		0.07	78.1	1.68	0.18	<0.05	0.08	<0.01	0.354	0.04	1.2	1.4	9.00	1400	3.09
93956		<0.05	348	2.12	0.10	<0.05	0.05	<0.01	0.574	0.02	0.8	1.0	9.62	1620	5.63
93957		<0.05	468	1.98	0.14	<0.05	0.06	0.01	0.440	0.02	1.0	1.6	10.00	1420	4.39
93958		0.05	501	2.24	0.15	<0.05	0.08	0.01	0.594	0.02	0.9	1.2	9.33	1480	4.26
93959		<0.05	342	2.06	0.11	<0.05	0.07	<0.01	0.554	0.02	0.7	1.0	9.91	1500	3.63
93960		1.61	>10000	8.20	8.50	0.15	0.56	0.07	1.355	0.20	24.2	23.3	1.51	911	1.03
93961		1.36	315	2.32	4.94	0.06	0.39	0.02	0.045	0.49	11.9	12.1	1.62	1440	28.4
93962		1.43	382	2.11	4.49	0.05	0.40	0.04	0.018	0.50	12.9	10.6	0.83	64	0.90
93963		1.48	306	1.99	4.61	0.06	0.38	0.03	0.059	0.58	12.4	10.5	1.27	493	0.91
93964		1.34	215	1.36	4.10	0.05	0.34	0.02	0.010	0.52	13.0	9.0	0.66	36	0.63
93965		1.30	362	3.01	4.00	0.06	0.46	0.01	0.190	0.47	9.8	10.2	2.92	1660	1.38
93966		1.61	290	3.35	5.16	0.07	0.38	0.02	0.229	0.49	12.9	14.9	3.03	2200	0.93
93967		2.11	87.0	2.01	5.68	0.07	0.39	0.02	0.014	0.59	17.2	15.1	1.15	72	0.51
93968		0.42	138.5	2.32	0.78	<0.05	0.20	0.02	0.080	0.16	6.8	2.4	7.64	4180	5.41
93969		0.80	270	2.26	1.43	<0.05	0.28	0.02	0.060	0.30	9.3	3.9	6.25	3730	1.33
93970		1.65	>10000	8.21	8.73	0.16	0.54	0.07	1.380	0.20	26.1	21.5	1.52	907	1.13
93971		1.05	153.0	1.99	1.76	<0.05	0.34	0.02	0.054	0.40	10.1	3.2	4.23	2950	0.30
93972		0.90	34.8	2.04	1.54	0.05	0.33	0.03	0.042	0.35	9.5	2.7	3.69	2820	0.45
93973		1.15	64.0	2.13	2.15	0.05	0.34	0.07	0.061	0.47	11.8	3.4	2.26	1840	1.08
93974		1.29	53.0	1.89	2.58	0.05	0.41	0.04	0.077	0.49	12.7	4.7	1.83	1480	0.53
93975		1.35	612	2.12	4.37	0.06	0.37	0.04	0.033	0.44	14.8	9.9	1.21	401	0.84
93976		<0.05	296	2.07	0.11	<0.05	0.06	<0.01	0.615	0.02	0.7	0.8	9.53	1520	4.02
93977		<0.05	243	2.14	0.13	<0.05	0.06	<0.01	0.590	0.02	0.8	0.8	10.15	1610	3.86
93978		0.06	157.5	2.55	0.18	<0.05	0.07	<0.01	1.155	0.03	1.0	0.7	10.25	1880	3.93
93979		<0.05	2950	2.87	0.12	<0.05	0.05	0.01	1.265	0.02	0.7	0.3	8.99	1610	26.7
93980		1.55	>10000	7.95	8.64	0.18	0.54	0.06	1.350	0.20	24.6	20.2	1.46	888	1.11



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01	ppm 0.2
93941		<0.05	4.9	10	5.8	0.4	0.003	0.20	0.65	0.4	0.4	<0.2	24.7	<0.01	<0.01	0.2
93942		<0.05	6.8	20	9.5	0.4	0.002	0.59	0.98	0.4	0.4	<0.2	29.3	<0.01	0.02	0.2
93943		<0.05	11.3	20	11.6	0.3	0.003	0.35	0.91	0.3	0.5	<0.2	26.5	<0.01	<0.01	0.2
93944		<0.05	17.2	10	19.3	0.4	0.010	0.34	1.20	0.3	0.5	<0.2	27.8	<0.01	0.01	0.2
93945		<0.05	15.6	10	9.2	0.3	0.004	0.15	0.91	0.4	0.4	<0.2	33.0	<0.01	<0.01	0.2
93946		<0.05	11.3	20	10.2	0.5	0.004	0.18	0.82	0.4	0.5	<0.2	28.0	<0.01	0.01	0.2
93947		<0.05	6.4	20	21.1	0.7	0.010	0.33	0.76	0.5	0.5	<0.2	22.9	<0.01	0.02	0.3
93948		<0.05	30.6	30	40.0	0.6	0.050	0.80	1.26	0.6	0.5	0.2	20.0	<0.01	0.02	0.3
93949		<0.05	51.0	30	79.5	0.8	0.111	0.84	2.04	0.7	0.3	0.4	12.9	<0.01	0.01	0.3
93950		0.39	30.1	550	127.5	14.0	<0.001	1.99	0.93	3.5	20.6	16.6	14.8	0.01	0.04	12.9
93951		<0.05	7.8	30	5.5	1.2	0.008	0.09	0.52	1.0	0.5	<0.2	18.2	<0.01	0.01	0.6
93952		<0.05	10.8	30	8.2	0.7	0.009	0.20	0.62	0.7	0.5	<0.2	21.9	<0.01	<0.01	0.6
93953		<0.05	12.9	20	8.4	0.4	0.011	0.09	0.58	0.5	0.5	<0.2	26.5	<0.01	0.01	0.2
93954		<0.05	7.2	40	6.7	0.5	0.005	0.04	0.40	0.5	0.4	<0.2	22.4	<0.01	0.01	0.4
93955		<0.05	6.4	30	5.9	1.3	0.004	0.05	0.33	1.0	0.5	<0.2	28.2	<0.01	0.01	0.6
93956		<0.05	11.2	20	9.7	0.6	0.008	0.12	0.61	0.6	0.4	<0.2	24.8	<0.01	<0.01	0.4
93957		<0.05	9.1	30	9.5	0.8	0.005	0.15	0.75	0.7	0.5	<0.2	33.7	<0.01	0.01	0.5
93958		<0.05	8.9	20	12.7	0.9	0.008	0.35	0.99	0.7	0.4	<0.2	25.7	<0.01	<0.01	0.5
93959		<0.05	5.5	30	7.7	0.6	0.006	0.14	0.73	0.6	0.5	<0.2	30.8	<0.01	0.01	0.4
93960		0.35	28.8	530	120.0	13.3	<0.001	1.97	0.85	3.5	19.9	16.3	14.3	0.01	0.03	12.4
93961		<0.05	22.5	460	264	19.6	0.007	0.78	1.15	5.7	0.3	0.7	19.0	<0.01	0.02	7.8
93962		<0.05	30.5	570	19.6	19.5	0.002	1.19	1.06	4.3	0.2	0.7	11.1	<0.01	0.02	9.1
93963		<0.05	25.2	670	13.0	22.8	0.003	0.80	0.76	6.7	0.2	0.7	13.2	<0.01	0.02	8.8
93964		<0.05	21.5	480	7.4	20.3	0.003	0.40	0.45	4.4	<0.2	0.6	10.7	<0.01	0.02	8.6
93965		<0.05	23.2	680	11.0	18.1	0.007	0.61	0.65	5.3	0.2	0.7	17.9	<0.01	0.05	6.9
93966		<0.05	25.6	550	6.0	20.9	0.001	0.33	0.59	7.2	<0.2	0.9	19.7	<0.01	0.04	7.4
93967		<0.05	27.9	510	3.0	26.9	0.001	0.15	0.47	5.1	<0.2	0.9	12.1	<0.01	0.01	10.1
93968		<0.05	5.1	430	10.1	6.8	0.001	0.24	0.38	2.9	0.5	0.2	25.3	<0.01	0.02	4.2
93969		<0.05	9.0	620	14.6	12.9	0.002	0.38	0.61	4.8	0.4	0.3	22.8	<0.01	<0.01	4.7
93970		0.38	28.8	540	119.0	14.2	<0.001	1.94	0.91	3.5	21.0	16.7	14.5	0.01	0.04	12.4
93971		<0.05	8.9	680	19.0	17.0	0.002	0.33	0.84	6.7	0.2	0.5	28.6	0.01	0.01	5.7
93972		<0.05	9.6	700	10.0	14.2	0.001	0.46	0.69	6.5	0.3	0.5	21.9	<0.01	0.01	6.1
93973		<0.05	17.0	720	10.9	19.0	0.001	1.07	0.83	5.8	0.2	0.6	17.5	<0.01	0.03	7.9
93974		<0.05	17.5	590	9.8	20.4	<0.001	0.82	0.84	6.9	0.2	0.7	16.8	<0.01	0.01	8.5
93975		<0.05	30.9	610	11.2	19.2	0.001	0.85	0.98	5.8	0.2	0.6	12.5	<0.01	0.01	9.1
93976		<0.05	5.3	30	5.3	0.7	0.007	0.09	0.73	0.5	0.4	<0.2	26.9	<0.01	<0.01	0.4
93977		<0.05	9.1	20	5.2	0.7	0.009	0.08	0.53	0.6	0.5	<0.2	25.4	<0.01	0.01	0.4
93978		<0.05	12.2	20	5.1	1.0	0.015	0.08	0.43	1.1	0.4	<0.2	22.7	<0.01	0.01	0.5
93979		<0.05	25.6	20	28.2	0.6	0.131	0.50	2.77	0.9	0.5	<0.2	18.5	<0.01	<0.01	0.4
93980		0.41	28.5	520	117.5	13.6	<0.001	1.89	0.85	3.5	20.2	16.2	14.5	0.01	0.04	11.6



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Cu-OG46 Cu %	Pb-OG46 Pb %	CRU-QC Pass2mm %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.01
93941		<0.005	0.19	0.31	3	<0.05	2.33	6	1.0			
93942		<0.005	0.70	0.30	2	<0.05	2.46	11	0.8			
93943		<0.005	0.27	0.33	3	<0.05	2.78	6	0.7			
93944		<0.005	0.27	0.71	2	<0.05	2.52	7	1.1			88.0
93945		<0.005	0.13	0.87	2	<0.05	2.51	7	1.1			
93946		<0.005	0.11	0.75	3	<0.05	3.00	5	1.3			
93947		<0.005	0.33	0.31	3	<0.05	2.69	4	1.5			
93948		<0.005	0.49	0.78	4	<0.05	3.34	5	1.8			
93949		<0.005	0.74	0.67	3	0.07	2.85	13	1.8			
93950		0.061	0.12	1.62	31	6.93	10.70	435	20.4	1.530		
93951		<0.005	0.10	0.78	5	<0.05	3.96	6	3.8			
93952		<0.005	0.19	0.89	4	<0.05	3.84	5	2.1			
93953		<0.005	0.18	2.59	4	<0.05	3.63	6	1.5			
93954		<0.005	0.12	7.84	4	<0.05	3.54	5	2.4			
93955		<0.005	0.26	2.69	7	<0.05	3.17	8	2.9			
93956		<0.005	0.16	2.24	5	<0.05	3.62	7	1.8			
93957		<0.005	0.17	1.25	4	<0.05	3.38	6	2.2			
93958		<0.005	0.64	1.99	5	<0.05	3.56	6	2.6			
93959		<0.005	0.21	1.97	4	<0.05	3.81	7	2.4			
93960		0.059	0.11	1.55	30	7.58	10.15	423	19.6	1.525		
93961		<0.005	0.36	0.65	18	0.08	9.66	19	8.8			
93962		<0.005	0.27	0.73	16	0.06	5.94	12	9.0			
93963		<0.005	0.20	0.70	18	0.07	7.64	10	9.4			
93964		<0.005	0.12	0.67	16	0.06	5.27	9	8.5			
93965		<0.005	0.21	0.86	15	0.06	11.00	11	10.5			
93966		<0.005	0.32	0.70	22	0.05	12.30	12	9.3			
93967		<0.005	0.22	0.76	21	0.05	6.64	14	9.7			
93968		<0.005	0.66	1.31	8	<0.05	9.50	8	4.6			
93969		<0.005	1.17	1.11	9	<0.05	11.05	6	6.9			
93970		0.060	0.12	1.58	30	7.14	10.75	421	20.7	1.545		
93971		<0.005	1.00	0.83	10	0.05	12.65	8	8.9			
93972		<0.005	0.87	1.46	10	<0.05	12.10	6	7.7			
93973		<0.005	1.05	0.91	12	0.05	10.50	4	8.8			
93974		<0.005	0.38	1.80	13	0.06	11.60	6	10.5			
93975		<0.005	0.39	0.83	18	<0.05	7.49	11	8.9			
93976		<0.005	0.14	1.77	4	<0.05	3.66	4	2.2			
93977		<0.005	0.10	2.16	5	<0.05	4.03	4	2.4			
93978		<0.005	0.06	1.31	8	<0.05	4.86	4	2.1			
93979		<0.005	0.36	1.21	7	<0.05	4.54	6	2.2			
93980		0.059	0.11	1.48	29	7.00	10.65	407	20.0	1.570		



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
93981		3.13		0.44	0.02	29.7	<0.02	<10	<10	0.22	6.38	15.45	0.02	2.37	18.8	2
93982		2.91		0.45	0.03	48.9	<0.02	<10	<10	0.18	6.87	17.50	0.02	3.37	32.8	2
93983		2.99		0.36	0.03	19.9	<0.02	<10	10	0.20	4.34	16.65	0.02	3.27	14.3	3
93984		3.15		0.41	0.06	12.3	<0.02	<10	20	0.24	4.76	15.00	0.02	3.81	12.3	5
93985		3.09		0.40	0.13	18.2	<0.02	<10	30	0.49	2.27	15.30	0.20	4.91	12.3	4
93986		2.57		0.20	0.45	35.1	<0.02	<10	10	1.39	0.80	13.85	0.01	8.41	10.3	7
93987		2.88		0.03	0.22	2.7	<0.02	<10	30	0.59	0.06	16.15	<0.01	5.21	5.3	6
93988		2.64		0.82	0.41	26.7	<0.02	<10	80	1.57	1.11	10.95	0.01	5.02	32.7	9
93989		2.79		0.41	0.68	17.0	<0.02	<10	230	1.34	0.42	10.50	0.01	5.98	31.2	9
93990		<0.02		7.84	2.86	10.0	<0.02	<10	40	0.37	81.1	0.33	0.58	50.4	30.6	36
93991		2.74		0.22	0.89	10.4	<0.02	<10	30	2.18	0.44	5.68	<0.01	4.83	18.1	14
93992		1.88		0.02	1.25	3.4	<0.02	20	40	5.88	0.04	0.19	<0.01	4.58	1.5	32
93993		1.96		0.06	1.35	8.2	<0.02	10	60	2.71	0.02	0.56	<0.01	4.46	2.4	27
93994		2.81		1.27	0.58	13.2	<0.02	<10	160	0.40	1.50	10.45	0.01	3.70	24.2	10
93995		2.98		0.47	0.23	6.5	<0.02	<10	10	0.45	0.91	15.15	0.01	4.91	18.1	4
93996		2.75		0.59	0.33	12.9	<0.02	<10	30	1.17	1.27	12.25	0.02	4.63	22.1	7
93997		2.50	97.5	0.09	1.05	1.0	<0.02	10	20	3.06	0.04	4.22	<0.01	8.88	3.6	19
93998		3.00		0.08	0.39	4.9	<0.02	<10	10	1.09	0.14	10.05	0.01	7.06	7.8	7
93999		2.84		0.61	0.60	27.7	<0.02	<10	230	2.04	0.72	7.86	0.01	8.73	28.2	8
94000		<0.02		7.70	3.00	11.4	<0.02	<10	40	0.41	90.0	0.34	0.61	50.8	32.8	37
93701		2.40		0.03	1.41	1.9	<0.02	10	40	3.75	0.04	0.65	<0.01	7.28	6.2	26
93702		2.43		0.09	1.40	1.4	<0.02	10	30	3.81	0.11	0.70	<0.01	6.73	25.9	24
93703		2.03		0.05	1.52	1.2	<0.02	20	40	5.24	0.01	0.25	<0.01	5.40	2.4	31
93704		1.86		0.05	1.19	2.2	<0.02	10	30	3.35	0.34	0.16	<0.01	7.07	8.5	23
93705		2.41		0.68	2.12	6.2	<0.02	<10	20	2.19	0.40	0.40	<0.01	6.97	17.0	28
93706		1.65		0.07	1.69	1.9	<0.02	<10	20	2.04	0.15	0.62	<0.01	6.19	8.6	26
93707		1.62		0.30	2.06	10.4	<0.02	<10	10	1.23	1.32	5.64	0.01	4.56	24.0	26
93708		2.67		0.43	0.33	18.5	<0.02	<10	10	0.59	2.49	12.70	0.01	4.03	27.3	5
93709		2.19		0.29	0.94	13.4	<0.02	<10	30	3.17	2.02	4.32	0.01	4.92	21.3	22
93710		<0.02		5.47	3.12	11.4	<0.02	<10	40	0.37	78.7	0.36	0.57	42.9	34.7	42
93711		2.52		0.28	0.28	13.2	<0.02	<10	10	0.62	1.68	12.50	0.01	4.21	21.2	7
93712		3.04		0.26	0.65	9.5	<0.02	<10	60	3.12	2.20	7.76	0.01	4.66	20.1	8
93713		2.26		0.13	1.47	2.5	<0.02	20	30	6.84	0.41	0.42	<0.01	3.62	21.3	20
93714		2.44		0.05	1.76	1.2	<0.02	10	30	5.65	0.18	0.34	<0.01	3.99	14.4	23
93715		3.01		0.02	0.37	6.5	<0.02	<10	1930	0.35	0.06	4.27	0.01	1.29	3.7	21
93716		3.18		1.50	0.34	14.7	<0.02	<10	460	0.30	1.69	16.20	0.01	3.19	33.5	3
93717		2.37		0.64	0.23	8.4	<0.02	<10	20	0.44	1.01	12.30	0.01	4.95	18.4	6
93718		2.88		0.56	0.27	12.6	<0.02	<10	430	0.95	0.34	12.70	0.01	4.10	24.8	12
93719		2.89		0.05	0.96	1.8	<0.02	10	110	3.16	0.04	5.36	0.01	6.20	6.7	19
93720		<0.02		5.34	3.07	10.7	<0.02	<10	40	0.39	81.4	0.35	0.55	43.1	34.1	41



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
93981		<0.05	33.1	1.42	0.08	<0.05	0.04	0.01	0.369	0.01	0.5	0.8	8.76	1060	7.60
93982		<0.05	130.5	2.18	0.12	<0.05	0.07	<0.01	0.935	0.02	0.8	0.6	9.38	1540	6.44
93983		<0.05	299	2.17	0.12	<0.05	0.05	<0.01	0.629	0.02	0.7	0.8	9.07	1620	5.11
93984		0.06	43.4	2.07	0.21	<0.05	0.11	0.01	0.498	0.04	1.0	1.0	8.17	1860	2.24
93985		0.14	1480	2.54	0.49	<0.05	0.11	0.01	0.412	0.07	1.4	3.1	8.12	2490	0.45
93986		0.53	187.5	2.54	1.61	<0.05	0.23	0.04	0.222	0.24	2.3	5.5	7.33	2440	0.33
93987		0.13	268	3.35	0.84	0.05	0.09	<0.01	0.363	0.07	1.2	3.4	8.51	2660	0.61
93988		0.80	192.0	2.24	1.44	<0.05	0.23	0.01	0.129	0.23	1.3	4.7	5.91	2120	1.78
93989		0.77	684	3.39	2.27	0.05	0.20	0.02	0.248	0.24	1.5	8.3	5.70	2660	0.54
93990		1.61	>10000	7.92	8.60	0.18	0.54	0.07	1.360	0.20	25.2	21.3	1.45	880	1.08
93991		1.62	190.5	2.49	2.68	0.05	0.27	0.01	0.237	0.38	1.6	6.6	3.54	1230	0.96
93992		4.02	31.9	3.88	3.51	0.06	0.46	<0.01	0.025	0.87	1.6	4.1	0.43	24	0.32
93993		2.40	19.4	10.40	3.95	0.12	0.39	<0.01	0.021	0.56	1.5	6.0	0.96	128	1.58
93994		0.11	1090	9.42	1.82	0.26	0.07	0.02	0.408	0.02	0.7	3.3	5.83	1960	2.58
93995		0.17	481	3.60	0.66	<0.05	0.09	0.01	0.365	0.06	1.3	2.2	7.89	3320	0.72
93996		0.69	41.4	3.27	1.09	<0.05	0.15	0.03	0.274	0.16	1.1	2.9	6.46	2700	1.23
93997		2.52	246	2.83	3.34	0.06	0.45	<0.01	0.077	0.62	2.8	7.1	2.42	1400	0.15
93998		1.03	159.5	2.12	1.29	<0.05	0.24	<0.01	0.254	0.26	2.2	3.8	5.18	2730	0.24
93999		1.65	86.9	2.03	1.89	<0.05	0.33	0.02	0.147	0.40	3.0	5.2	4.16	2190	0.91
94000		1.64	>10000	8.28	9.09	0.19	0.59	0.07	1.415	0.20	26.1	22.2	1.52	918	1.13
93701		3.80	40.8	3.39	4.34	0.06	0.48	0.01	0.032	0.77	2.5	7.8	0.85	179	0.23
93702		3.33	7.7	2.64	4.30	0.05	0.47	0.02	0.037	0.71	2.3	8.6	0.95	187	0.34
93703		4.26	5.4	4.21	4.37	0.07	0.48	<0.01	0.029	0.93	1.9	7.4	0.59	46	0.23
93704		2.42	67.4	1.89	3.83	<0.05	0.42	<0.01	0.020	0.66	2.6	8.7	0.51	29	0.45
93705		1.40	19.1	3.33	7.19	0.07	0.41	0.01	0.023	0.42	2.3	19.1	1.64	129	0.93
93706		1.27	3.6	2.26	5.77	0.05	0.40	<0.01	0.029	0.53	2.1	13.7	1.27	165	0.28
93707		0.36	232	4.81	7.54	0.09	0.22	<0.01	0.194	0.20	1.1	19.4	4.65	1640	0.95
93708		0.24	842	3.33	0.99	<0.05	0.13	<0.01	0.319	0.12	1.0	4.2	6.52	3060	3.38
93709		1.26	872	2.17	2.97	<0.05	0.40	0.01	0.167	0.49	1.7	7.9	2.56	1080	3.31
93710		1.35	>10000	8.60	9.55	0.18	0.63	0.06	1.280	0.21	21.5	22.2	1.57	943	1.27
93711		0.23	1250	3.27	1.04	<0.05	0.11	0.01	0.301	0.12	1.0	3.1	6.44	2710	1.41
93712		1.35	902	2.90	2.08	0.05	0.26	0.01	0.227	0.42	1.5	4.6	3.87	2020	2.27
93713		3.11	6.2	2.03	4.28	0.05	0.47	0.01	0.019	0.92	1.3	6.4	0.60	131	0.17
93714		2.78	6.5	2.29	4.84	0.06	0.44	<0.01	0.022	0.82	1.4	8.1	0.87	112	<0.05
93715		0.09	116.0	10.35	1.36	0.40	0.05	<0.01	0.065	0.02	0.3	1.4	2.24	1170	4.27
93716		0.11	2250	4.49	0.79	0.05	0.06	0.03	0.502	0.05	0.7	2.7	8.45	3110	0.91
93717		0.20	1030	3.52	0.64	<0.05	0.11	0.02	0.258	0.13	1.4	1.6	6.21	3080	6.17
93718		0.53	1820	3.12	0.87	0.05	0.14	0.02	0.307	0.16	1.0	2.4	6.52	2500	0.79
93719		2.55	128.5	3.08	3.00	0.05	0.41	<0.01	0.052	0.68	2.1	6.4	2.78	1800	0.21
93720		1.37	>10000	8.47	9.44	0.17	0.58	0.07	1.295	0.21	21.5	23.7	1.55	926	1.16



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
93981		<0.05	6.5	10	7.1	0.4	0.011	0.12	0.43	0.4	0.5	<0.2	23.6	<0.01	0.01	0.3
93982		<0.05	10.4	30	7.7	0.5	0.021	0.11	0.46	0.7	0.5	<0.2	21.2	<0.01	0.02	0.5
93983		<0.05	5.3	40	6.6	0.4	0.024	0.14	0.39	1.2	0.4	<0.2	23.0	<0.01	0.01	0.4
93984		<0.05	4.7	50	6.3	1.2	0.013	0.10	0.30	2.8	0.5	<0.2	22.1	<0.01	<0.01	0.7
93985		<0.05	7.3	230	7.3	2.6	0.001	0.42	0.60	3.0	0.5	0.2	24.0	<0.01	0.01	0.7
93986		<0.05	6.1	620	3.8	9.1	0.001	0.27	1.11	7.2	0.4	0.2	33.9	<0.01	0.02	1.6
93987		<0.05	3.3	260	0.3	2.5	<0.001	0.06	0.31	2.7	0.4	<0.2	26.2	<0.01	0.01	0.5
93988		<0.05	13.6	420	17.4	9.6	0.006	0.30	1.31	8.4	0.3	0.2	18.6	<0.01	0.02	1.2
93989		<0.05	15.7	450	9.5	10.5	0.001	0.38	1.03	6.8	0.3	0.3	23.7	<0.01	0.02	1.3
93990		0.41	28.6	520	118.0	13.9	<0.001	1.88	0.91	3.6	20.2	16.8	15.0	0.01	0.06	11.6
93991		<0.05	13.2	340	5.2	18.0	0.001	0.13	0.76	5.6	0.2	0.4	13.0	<0.01	0.01	1.8
93992		0.07	6.3	360	1.3	41.6	<0.001	0.01	2.84	11.0	<0.2	0.6	8.7	<0.01	0.01	4.4
93993		0.05	11.3	360	1.8	28.0	<0.001	0.01	3.96	7.4	<0.2	0.6	7.5	<0.01	<0.01	2.6
93994		0.05	10.9	290	32.0	0.9	0.001	0.41	2.44	1.2	0.4	0.2	19.0	<0.01	<0.01	0.6
93995		<0.05	6.4	80	29.0	2.6	0.003	0.34	0.35	2.1	0.4	<0.2	21.3	<0.01	0.02	0.6
93996		<0.05	12.0	220	20.5	7.1	0.001	0.56	0.67	3.2	0.4	0.2	19.2	<0.01	0.01	0.9
93997		0.05	6.7	710	1.1	29.0	<0.001	0.05	0.88	10.8	<0.2	0.7	15.8	<0.01	0.01	3.8
93998		<0.05	5.5	570	1.8	11.9	0.003	0.05	0.33	7.1	0.4	0.3	19.4	<0.01	0.02	2.1
93999		<0.05	15.9	520	27.8	18.4	0.006	0.38	1.12	6.3	0.3	0.4	18.8	<0.01	0.02	2.8
94000		0.38	29.7	530	124.0	14.7	<0.001	1.95	0.92	3.9	21.2	17.2	15.3	0.01	0.05	12.5
93701		0.06	14.3	500	1.9	38.7	<0.001	0.05	1.22	9.4	<0.2	0.8	9.8	<0.01	<0.01	4.5
93702		<0.05	14.9	480	1.5	32.7	<0.001	0.17	1.00	10.2	0.2	0.6	9.3	<0.01	0.02	3.6
93703		0.07	10.1	440	1.0	42.0	<0.001	0.01	1.63	11.5	<0.2	0.7	11.1	<0.01	0.01	4.4
93704		<0.05	11.5	450	0.8	27.4	<0.001	0.08	0.78	8.4	<0.2	0.6	7.6	<0.01	0.03	2.9
93705		<0.05	22.8	450	0.8	16.7	<0.001	0.15	0.54	8.6	0.2	0.5	6.0	<0.01	0.03	2.0
93706		<0.05	18.6	480	0.7	20.6	<0.001	0.07	0.35	9.4	<0.2	0.5	6.2	<0.01	0.01	1.8
93707		<0.05	26.0	440	4.7	8.1	0.001	0.17	0.31	9.2	0.3	0.4	14.0	<0.01	0.01	0.9
93708		<0.05	7.7	300	11.8	4.8	0.004	0.25	0.28	3.8	0.4	0.2	29.0	<0.01	0.01	0.7
93709		<0.05	17.4	460	12.7	20.8	0.003	0.45	0.60	11.0	0.2	0.4	15.9	<0.01	0.02	1.7
93710		0.41	34.1	560	125.5	15.0	<0.001	2.04	1.03	4.0	22.8	16.1	15.4	0.02	0.04	11.3
93711		<0.05	11.0	290	5.2	4.6	0.001	0.25	0.24	4.6	0.4	0.2	25.3	<0.01	0.01	0.7
93712		<0.05	13.4	370	14.6	17.1	0.005	0.47	0.60	8.6	0.3	0.3	24.9	<0.01	0.02	1.5
93713		<0.05	22.6	380	1.8	38.7	<0.001	0.96	1.10	13.2	<0.2	0.5	12.0	<0.01	0.01	2.4
93714		<0.05	17.6	410	0.8	36.2	<0.001	0.28	0.84	12.5	<0.2	0.5	12.0	<0.01	0.01	2.2
93715		0.06	6.0	130	0.9	1.0	0.001	0.13	2.02	1.6	0.2	0.3	30.7	<0.01	<0.01	0.4
93716		<0.05	12.4	170	55.4	1.9	0.002	0.69	0.80	2.3	0.7	<0.2	26.6	<0.01	<0.01	0.5
93717		<0.05	10.8	100	33.6	4.3	0.002	0.56	0.45	3.3	0.4	<0.2	25.4	<0.01	0.01	0.7
93718		<0.05	14.2	580	14.3	6.9	0.004	0.69	0.77	3.4	0.5	0.2	29.8	<0.01	0.01	0.8
93719		0.05	8.2	660	2.3	32.9	<0.001	0.07	1.03	12.3	0.2	0.6	21.3	<0.01	0.01	3.3
93720		0.36	33.1	550	118.5	14.7	<0.001	2.01	0.84	3.9	22.0	16.4	15.8	0.01	0.05	11.3



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Cu-OG46 Cu %	Pb-OG46 Pb %	CRU-QC Pass2mm %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.01
93981		<0.005	0.14	1.47	4	<0.05	4.06	4	1.4			
93982		<0.005	0.12	1.42	5	<0.05	4.43	5	2.4			
93983		<0.005	0.20	3.01	7	<0.05	4.68	4	1.9			
93984		<0.005	0.18	5.07	11	<0.05	5.08	5	4.4			87.4
93985		<0.005	0.56	1.34	12	<0.05	5.38	10	2.9			
93986		<0.005	0.37	0.38	18	<0.05	6.80	9	6.1			
93987		<0.005	<0.02	0.40	17	0.13	6.38	7	2.2			
93988		<0.005	0.65	1.48	29	<0.05	5.55	6	5.8			
93989		<0.005	0.44	0.19	20	<0.05	7.78	9	4.9			
93990		0.059	0.12	1.53	29	6.82	10.85	405	20.3	1.555		
93991		0.006	0.19	0.37	26	<0.05	5.15	9	7.4			
93992		0.035	0.12	0.89	48	0.20	5.30	6	14.8			
93993		0.019	0.07	0.95	44	1.88	4.25	11	10.5			
93994		0.007	1.00	0.70	12	2.00	5.58	12	2.5			
93995		<0.005	1.32	0.31	11	<0.05	5.84	6	2.7			
93996		<0.005	2.49	0.32	17	<0.05	6.43	7	3.8			
93997		0.016	0.14	0.49	38	0.12	7.31	9	11.3			
93998		<0.005	0.14	0.50	24	<0.05	7.02	6	5.6			
93999		<0.005	0.94	0.70	21	<0.05	8.36	8	9.0			
94000		0.061	0.11	1.62	30	6.79	11.00	421	21.0	1.550		
93701		0.027	0.17	0.69	45	0.17	5.89	11	13.7			
93702		0.015	0.62	0.56	41	0.09	6.10	11	12.9			
93703		0.036	0.12	0.84	56	0.18	5.97	9	14.7			
93704		0.010	0.08	0.55	40	0.06	4.59	9	11.4			
93705		<0.005	0.09	0.41	54	<0.05	4.13	25	9.3			
93706		<0.005	0.05	0.29	44	<0.05	4.15	16	10.4			
93707		<0.005	0.12	0.19	50	<0.05	5.08	25	5.4			
93708		<0.005	0.41	0.21	17	<0.05	6.96	6	2.9			
93709		<0.005	0.37	0.28	21	<0.05	6.03	8	10.8			
93710		0.068	0.12	1.49	32	7.62	11.50	436	22.8	1.555		
93711		<0.005	0.17	0.18	20	<0.05	7.36	7	2.8			
93712		<0.005	0.44	0.27	19	<0.05	9.03	7	8.3			
93713		<0.005	0.09	0.35	30	<0.05	5.19	7	15.8			
93714		<0.005	0.09	0.25	35	<0.05	4.76	15	13.3			
93715		0.007	<0.02	0.48	14	2.64	2.72	7	1.9			
93716		<0.005	1.56	0.22	9	<0.05	5.92	10	2.1			
93717		<0.005	1.56	0.36	12	<0.05	5.15	6	3.3			
93718		<0.005	1.49	0.29	16	<0.05	6.86	6	3.6			
93719		0.018	0.35	0.46	38	0.12	7.37	8	11.8			
93720		0.063	0.11	1.42	31	6.24	11.25	435	22.0	1.515		



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
		0.02	0.01	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
93721		3.06		0.07	0.48	4.2	<0.02	<10	110	1.24	0.11	10.60	0.01	6.36	8.1	8
93722		2.55		0.05	0.14	0.3	<0.02	20	10	0.25	0.05	18.25	0.04	9.98	2.6	2
93723		2.43		0.04	0.11	0.3	<0.02	<10	10	0.21	0.04	17.15	0.21	6.37	2.5	3
93724		3.09		0.02	0.13	0.2	<0.02	<10	20	0.23	0.02	18.55	0.23	4.41	2.9	2
93725		3.33		0.01	0.05	0.1	<0.02	<10	10	0.16	0.01	17.45	0.08	3.10	2.1	2
93726		2.65		0.18	0.51	0.7	<0.02	<10	20	0.41	0.11	14.00	0.98	4.57	4.2	7
93727		3.03		0.01	0.08	0.2	<0.02	<10	10	0.15	0.01	19.45	0.04	4.38	2.4	3
93728		3.21	93.9	0.01	0.04	0.2	<0.02	<10	10	0.14	0.01	18.90	0.04	3.67	1.8	5
93729		2.87		0.05	0.11	0.6	<0.02	10	720	0.20	0.05	15.30	0.06	2.66	2.2	9
93730		<0.02		7.73	3.09	10.9	<0.02	<10	40	0.53	71.7	0.36	0.58	45.0	34.4	42
93731		0.25		0.03	0.65	13.5	<0.02	<10	70	0.49	0.19	0.29	0.01	10.25	8.6	17
93732		2.88		0.09	0.07	2.5	<0.02	<10	2200	0.15	0.07	8.92	0.20	1.42	6.5	12
93733		2.66		0.05	0.04	5.4	<0.02	<10	960	0.19	0.09	16.70	0.33	1.66	7.4	5
93734		2.91		0.09	0.11	5.7	<0.02	<10	20	0.20	0.15	12.85	0.25	2.78	6.7	5
93735		2.32		0.44	0.21	18.5	<0.02	<10	30	0.26	0.45	1.47	0.11	4.12	5.1	17
93736		2.32		0.18	0.12	8.5	<0.02	<10	20	0.23	0.20	10.50	0.31	3.69	5.0	10
93737		2.40		0.34	0.13	10.8	<0.02	<10	10	0.19	0.37	6.22	0.27	3.88	4.8	16
93738		2.03		0.32	0.19	3.2	<0.02	<10	10	0.17	0.35	4.43	0.09	2.22	3.8	19
93739		2.35		0.04	0.06	3.1	<0.02	<10	10	0.19	0.16	12.45	0.58	2.33	5.4	18
93740		<0.02		6.09	3.15	11.0	<0.02	<10	40	0.44	93.1	0.36	0.62	53.9	32.0	43
93741		0.72		0.13	0.38	1.9	<0.02	<10	170	3.51	0.21	0.16	0.93	8.12	81.7	9
93742		0.32		0.07	0.38	229	<0.02	<10	170	4.52	0.14	0.12	0.68	13.10	107.5	10
93743		0.54		0.02	0.32	107.0	<0.02	<10	830	2.18	0.11	0.06	56.3	20.5	589	<1
93744		0.63		3.56	0.34	225	<0.02	<10	410	1.10	0.11	0.34	1.35	5.39	22.2	14



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
93721		1.10	152.5	2.72	1.53	<0.05	0.23	<0.01	0.090	0.33	2.2	4.4	5.36	3130	0.20	0.01
93722		0.09	15.1	0.41	0.39	0.05	0.05	<0.01	0.011	0.05	4.4	5.5	10.85	454	<0.05	0.02
93723		0.07	9.3	0.51	0.32	0.07	0.04	<0.01	0.008	0.03	2.6	4.2	10.25	498	0.09	0.01
93724		0.06	6.2	0.57	0.32	0.05	0.03	<0.01	0.016	0.03	1.9	5.5	11.05	587	0.06	0.01
93725		<0.05	3.8	0.50	0.17	0.05	<0.02	<0.01	0.009	0.01	1.4	2.9	10.25	538	0.07	0.01
93726		0.10	12.6	0.57	1.09	0.05	0.07	0.02	0.006	0.04	1.9	17.9	9.19	438	0.31	0.01
93727		<0.05	6.4	0.57	0.23	0.06	<0.02	<0.01	0.008	0.01	1.8	4.0	11.50	587	0.10	0.02
93728		<0.05	6.1	0.50	0.18	0.08	<0.02	<0.01	0.009	0.01	1.6	3.2	11.20	559	0.13	0.01
93729		<0.05	4.1	0.57	0.32	0.06	0.02	<0.01	0.013	0.01	1.2	6.6	9.17	495	0.40	0.01
93730		1.48	>10000	8.58	9.81	0.19	0.55	0.05	1.355	0.21	22.4	33.5	1.57	948	1.27	0.01
93731		0.37	67.3	8.04	1.84	0.08	0.68	<0.01	0.087	0.13	4.7	1.4	0.20	319	0.75	<0.01
93732		0.06	170.0	0.87	0.27	<0.05	0.03	0.02	0.010	0.02	0.7	1.7	5.36	1120	0.92	0.01
93733		<0.05	44.1	0.79	0.16	<0.05	0.02	0.01	0.015	0.01	0.6	2.2	9.81	1410	0.31	0.01
93734		0.07	49.5	0.85	0.37	<0.05	0.06	0.02	0.012	0.04	1.3	2.7	7.49	1060	0.39	0.01
93735		0.15	146.5	0.80	0.66	<0.05	0.15	0.02	<0.005	0.07	2.5	4.4	1.02	213	1.52	<0.01
93736		0.10	87.6	0.85	0.40	<0.05	0.07	<0.01	0.011	0.04	1.8	2.8	6.31	880	0.62	0.01
93737		0.09	146.0	0.94	0.43	<0.05	0.08	0.02	0.008	0.04	2.1	3.1	3.97	522	1.48	0.01
93738		0.07	134.5	0.81	0.54	<0.05	0.05	0.01	0.005	0.02	1.2	5.5	2.88	410	1.08	0.01
93739		<0.05	29.5	0.84	0.24	<0.05	0.02	0.01	0.010	0.01	0.9	2.5	7.33	994	1.38	0.01
93740		1.75	>10000	8.76	9.14	0.17	0.60	0.07	1.520	0.22	27.4	26.5	1.59	952	1.26	0.01
93741		0.14	463	19.60	1.09	0.44	0.16	<0.01	0.069	0.04	2.5	0.3	0.15	248	1.64	<0.01
93742		0.18	1610	18.30	1.67	0.38	0.08	<0.01	0.020	0.06	6.1	1.1	0.07	983	10.55	0.01
93743		0.15	1130	40.4	1.64	0.29	0.26	0.02	0.057	0.07	1.4	1.0	0.11	38700	2.74	0.01
93744		0.34	240	9.99	2.52	0.11	0.11	0.34	0.241	0.06	2.9	1.3	0.20	646	5.71	<0.01



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Nb ppm 0.05	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2
93721		<0.05	6.8	560	2.0	15.1	0.001	0.06	0.37	7.6	0.4	0.3	26.1	<0.01	0.01	1.9
93722		<0.05	2.6	80	73.7	2.1	<0.001	0.01	0.58	1.2	0.5	<0.2	59.1	<0.01	0.01	1.0
93723		<0.05	2.1	50	141.5	1.5	<0.001	0.01	0.66	0.7	0.5	<0.2	68.8	<0.01	<0.01	0.5
93724		<0.05	2.4	30	18.7	1.2	<0.001	0.01	0.07	0.8	0.5	<0.2	73.2	<0.01	0.01	0.4
93725		<0.05	1.3	90	9.3	0.3	<0.001	0.01	<0.05	0.1	0.5	<0.2	77.3	<0.01	0.01	<0.2
93726		<0.05	4.1	60	707	1.9	<0.001	0.03	0.68	1.2	0.4	<0.2	61.7	<0.01	0.01	0.6
93727		<0.05	1.6	20	25.4	0.5	<0.001	0.01	<0.05	0.2	0.5	<0.2	95.0	<0.01	0.01	<0.2
93728		<0.05	1.3	130	63.2	0.4	<0.001	0.01	<0.05	0.2	0.6	<0.2	88.2	<0.01	0.01	<0.2
93729		<0.05	2.6	30	173.5	0.3	<0.001	0.02	0.13	0.2	0.5	<0.2	60.2	<0.01	<0.01	<0.2
93730		0.44	33.8	550	126.5	15.5	<0.001	2.04	0.92	3.9	23.3	16.6	15.6	0.02	0.05	11.2
93731		0.07	17.3	150	6.4	8.3	<0.001	0.01	1.08	4.1	0.4	0.3	4.4	<0.01	0.02	4.7
93732		<0.05	4.6	30	388	0.9	<0.001	0.09	0.85	0.7	0.4	0.3	25.1	<0.01	<0.01	0.2
93733		<0.05	3.9	20	82.6	0.6	<0.001	0.06	0.80	0.5	0.6	<0.2	32.6	<0.01	0.01	<0.2
93734		<0.05	4.3	40	204	1.8	<0.001	0.05	0.30	0.7	0.4	0.2	24.5	<0.01	0.01	0.3
93735		<0.05	6.3	50	382	3.2	0.001	0.20	1.09	0.3	0.4	0.4	4.9	<0.01	0.01	0.7
93736		<0.05	4.4	40	451	1.8	0.001	0.07	0.58	0.7	0.4	0.2	20.9	<0.01	<0.01	0.4
93737		<0.05	5.1	30	858	1.7	<0.001	0.08	0.81	0.5	0.4	0.4	18.3	<0.01	<0.01	0.5
93738		<0.05	6.2	20	873	1.2	<0.001	0.04	2.02	0.5	0.2	0.4	13.1	<0.01	<0.01	0.3
93739		<0.05	4.7	30	243	0.4	<0.001	<0.01	0.59	0.6	0.4	0.2	30.1	<0.01	<0.01	<0.2
93740		0.39	31.1	560	133.5	15.0	<0.001	2.08	1.00	3.7	22.6	18.7	15.7	0.02	0.05	13.2
93741		0.39	90.2	830	2070	1.9	<0.001	0.02	6.44	3.2	0.8	0.3	12.5	<0.01	0.02	1.7
93742		0.12	107.0	1370	3860	4.0	<0.001	0.01	38.3	2.7	6.3	0.2	11.9	<0.01	<0.01	1.2
93743		0.07	157.5	160	>10000	3.3	<0.001	<0.01	8.48	2.9	0.3	<0.2	16.0	<0.01	0.01	2.1
93744		0.06	18.9	420	2440	4.6	<0.001	0.04	24.5	0.9	0.7	0.5	20.0	<0.01	<0.01	1.3



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CERTIFICATE OF ANALYSIS MI17207436

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm	Cu-OG46 Cu %	Pb-OG46 Pb %	CRU-QC Pass2mm %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001	0.01
93721		<0.005	0.10	0.35	24	<0.05	7.19	7	6.5			
93722		<0.005	<0.02	0.34	3	<0.05	2.54	47	1.6			
93723		<0.005	<0.02	0.28	4	<0.05	2.21	103	1.1			
93724		<0.005	<0.02	0.14	4	<0.05	2.10	106	0.9			
93725		<0.005	<0.02	0.23	3	<0.05	1.50	45	<0.5			
93726		<0.005	<0.02	0.35	6	<0.05	1.95	317	2.1			
93727		<0.005	<0.02	0.16	4	<0.05	1.78	33	<0.5			
93728		<0.005	<0.02	0.29	3	<0.05	1.71	29	<0.5			
93729		<0.005	<0.02	0.25	4	<0.05	1.32	40	<0.5			
93730		0.066	0.10	1.45	31	8.96	11.75	437	22.6	1.520		
93731		<0.005	0.06	0.49	18	0.07	2.21	21	25.3			
93732		<0.005	<0.02	0.14	3	0.05	1.04	62	1.0			
93733		<0.005	<0.02	0.25	4	<0.05	1.67	66	0.5			90.2
93734		<0.005	<0.02	0.25	4	<0.05	1.39	48	1.6			
93735		<0.005	0.03	0.24	4	<0.05	0.64	79	3.9			
93736		<0.005	<0.02	0.34	5	0.06	1.71	61	2.0			
93737		<0.005	<0.02	0.27	4	0.05	1.23	64	2.0			
93738		<0.005	<0.02	0.14	3	0.05	0.81	77	1.4			
93739		<0.005	<0.02	0.26	4	0.07	1.74	108	0.6			
93740		0.067	0.12	1.65	32	7.91	11.75	444	23.0	1.540		
93741		0.013	0.02	3.88	31	0.63	26.8	2180	5.0			
93742		0.006	0.10	1.32	43	0.79	7.66	1830	3.7			
93743		0.007	1.88	7.15	50	0.44	15.35	4850	13.3		1.995	
93744		<0.005	0.04	1.40	10	0.17	3.25	1670	4.4			



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CERTIFICATE OF ANALYSIS MI17207436

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

ACCREDITATION COMMENTS

Applies to Method: NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is David Jones, ICPMS Supervising Chemist.
ME-MS41

Applies to Method: NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 818. The Technical Signatory is Samantha Profke, ICPAES Supervising Chemist
Cu-OG46 Pb-OG46

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Mount Isa located at Unit 4, 16 Enterprise Rd, Mount Isa, QLD, Australia.
BAG-01 CRU-31 CRU-QC LEV-01
LEV-02 LOG-22 ME-OG46 PUL-32
PUL-QC SPL-22 WEI-21

Applies to Method: Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. NATA Accreditation does not cover the performance of ALS Brisbane Sample Preparation which is processed at 116 Delta Street, Geebung, QLD 4034, Australia
Cu-OG46 ME-MS41 Pb-OG46