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To: **COPPER MINES OF TASMANIA P/L**
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Page: 1
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
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CERTIFICATE BR20055748

This report is for 58 Soil samples submitted to our lab in Burnie, TAS, Australia on 2-MAR-2020.

The following have access to data associated with this certificate:

GEOFF CORDERY

KEN MORRISON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DRY-22	Drying - Maximum Temp 60C
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
BAG-01	Bulk Master for Storage
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-TL43	Trace Level Au - 25g AR	ICP-MS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BR20055748

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	ME-MS41												
		Recvd Wt. kg	Pass75um %	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	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
WCS0113		1.16	99.1	1.30	3.12	52.4	<0.02	<10	770	0.43	0.75	0.03	1.27	94.7	102.5	46
WCS0114		1.17		0.54	2.34	21.5	<0.02	<10	160	0.37	0.92	0.01	0.07	81.1	1.2	16
WCS0115		1.41		1.71	2.43	25.9	<0.02	<10	130	0.25	2.62	0.01	0.08	125.5	1.3	14
WCS0116		1.16		1.69	1.74	32.5	<0.02	<10	230	0.25	2.56	0.01	0.16	143.5	1.1	21
WCS0117		1.14		2.62	2.78	36.4	<0.02	<10	220	0.35	2.79	0.01	0.11	162.0	2.2	43
WCS0118		1.11		3.45	2.61	41.9	<0.02	<10	260	0.35	2.83	0.01	0.10	196.5	1.3	44
WCS0119		1.30		1.55	1.68	74.4	<0.02	<10	320	0.32	3.31	0.01	0.17	180.0	2.3	44
WCS0120		1.25		4.09	3.08	30.9	<0.02	<10	420	0.36	1.46	0.01	0.07	174.5	1.2	57
WCS0121		1.12		1.10	1.64	71.4	<0.02	<10	170	0.25	1.64	0.01	0.07	134.0	1.0	53
WCS0122		1.07		0.98	1.67	31.3	<0.02	<10	100	0.25	1.37	0.01	0.13	145.5	4.0	134
WCS0123		1.05		0.56	1.80	30.3	<0.02	<10	90	0.18	1.56	0.01	0.06	108.5	1.9	49
WCS0124		1.04		0.69	2.92	42.4	<0.02	<10	110	0.28	1.70	0.01	0.09	107.5	3.3	72
WCS0125		1.13		0.83	3.69	38.7	<0.02	<10	100	0.32	1.86	0.01	0.11	111.0	4.9	78
SBS001		1.17		0.04	4.46	1.6	<0.02	<10	20	0.51	0.07	0.01	0.01	18.95	15.3	22
SBS002		1.31		0.05	4.89	2.7	<0.02	<10	60	0.63	0.11	<0.01	0.03	14.80	13.4	17
SBS003		0.88		0.08	4.03	5.4	<0.02	<10	30	0.38	0.25	0.01	0.04	16.90	7.7	21
SBS004		1.23		0.06	3.40	8.6	<0.02	<10	40	0.43	0.33	0.01	0.05	47.5	5.3	21
SBS005		0.96		0.05	2.37	6.1	<0.02	<10	30	0.31	0.15	0.01	0.02	66.1	2.5	12
SBS006		0.87		0.06	3.67	32.0	<0.02	<10	130	0.41	0.19	0.01	0.05	89.5	2.2	11
SBS007		0.95		0.04	5.51	50.8	<0.02	<10	100	0.49	0.13	0.01	0.05	115.0	4.0	71
SBS008		1.14		0.05	3.49	34.0	<0.02	<10	40	0.40	0.16	0.01	0.03	73.3	5.8	21
SBS009		1.11		0.05	4.28	28.2	<0.02	<10	50	0.51	0.15	0.01	0.04	94.7	6.1	44
SBS010		0.87		0.08	4.31	38.2	<0.02	<10	60	0.50	0.20	0.01	0.04	86.1	5.5	36
SBS011		0.73		0.07	5.22	39.2	<0.02	<10	50	0.56	0.23	0.01	0.05	80.2	6.7	40
SBS012		1.05		0.09	5.00	27.7	<0.02	<10	50	0.49	0.19	0.01	0.06	73.0	11.1	51
SBS013		1.10		0.13	5.37	48.4	<0.02	<10	110	0.51	0.40	0.01	0.04	91.1	5.4	74
SBS014		1.18		0.07	5.25	44.5	<0.02	<10	110	0.83	0.48	0.01	0.08	162.0	14.4	190
SBS015		0.92		0.03	3.94	15.8	<0.02	<10	170	0.31	0.51	0.07	0.04	167.5	8.6	230
SBS016		0.46		0.05	3.98	121.5	<0.02	<10	130	0.47	0.36	<0.01	0.04	65.3	1.2	42
SBS017		1.01		0.21	1.06	41.7	<0.02	<10	80	0.35	0.48	<0.01	0.03	102.0	0.4	7
SBS018		1.45		0.03	1.71	32.9	<0.02	<10	60	0.57	0.60	<0.01	0.02	83.8	0.6	13
SBS019		0.65		0.06	4.72	4.6	<0.02	<10	30	0.30	0.27	0.01	0.07	36.2	6.3	17
SBS020		0.75		0.04	6.76	1.7	<0.02	<10	60	0.86	0.13	0.01	0.08	44.7	21.2	23
SBS021		1.07		0.02	3.59	1.0	<0.02	<10	40	0.54	0.05	0.01	0.02	48.0	19.2	17
SBS022		1.02		0.02	3.61	1.3	<0.02	<10	30	0.22	0.11	0.01	0.01	24.0	6.3	14
SBS023		0.89		0.07	4.35	4.2	<0.02	<10	20	0.36	0.24	0.01	0.05	27.5	7.8	19
SBS024		0.84		0.03	3.57	4.1	<0.02	<10	30	0.33	0.23	0.01	0.06	21.7	6.3	19
SBS025		0.78		0.09	4.10	2.4	<0.02	<10	20	0.28	0.17	0.01	0.05	22.7	5.6	19
SBS026		0.70		0.19	4.64	4.9	<0.02	<10	40	0.42	0.24	0.01	0.06	35.7	5.6	19
SBS027		0.68		0.03	2.72	2.7	<0.02	<10	30	0.31	0.15	0.01	0.03	72.2	2.3	13



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Sample Description	Method Analyte Units LOD	ME-MS41														
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		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	0.01
WCS0113		2.36	121.5	7.20	7.85	0.07	0.05	0.21	0.036	0.25	32.3	16.2	0.24	13400	1.43	0.01
WCS0114		0.81	82.4	6.09	6.80	0.07	0.24	0.19	0.039	0.37	47.5	4.7	0.12	311	0.96	0.01
WCS0115		1.32	108.0	4.98	11.00	0.11	0.07	0.25	0.071	0.23	70.2	5.1	0.37	868	1.35	0.01
WCS0116		1.33	93.1	3.39	8.72	0.14	0.02	0.28	0.059	0.23	83.1	1.5	0.07	389	1.20	0.01
WCS0117		1.92	118.0	5.52	11.45	0.16	0.06	0.42	0.089	0.21	90.9	6.3	0.12	544	1.48	0.01
WCS0118		1.78	115.0	4.99	10.85	0.19	0.04	0.42	0.091	0.23	107.5	5.2	0.10	515	1.32	0.01
WCS0119		0.71	150.5	8.12	9.99	0.19	0.08	0.25	0.088	0.17	97.8	1.1	0.05	848	1.35	<0.01
WCS0120		1.88	57.0	5.00	11.80	0.18	0.20	0.24	0.077	0.27	98.3	9.1	0.22	840	1.14	<0.01
WCS0121		1.08	69.8	8.38	9.49	0.16	0.08	0.18	0.074	0.14	71.8	1.2	0.06	417	1.23	<0.01
WCS0122		1.11	74.4	6.28	9.16	0.15	0.07	0.11	0.041	0.14	76.3	2.3	0.07	1060	1.33	<0.01
WCS0123		1.01	60.6	4.51	9.04	0.11	0.08	0.11	0.043	0.17	56.1	3.0	0.15	294	1.35	0.01
WCS0124		1.43	93.8	4.76	10.50	0.11	0.05	0.22	0.059	0.22	54.1	9.2	0.30	285	1.39	0.01
WCS0125		2.17	120.0	4.83	14.30	0.11	0.05	0.25	0.073	0.17	57.0	11.6	0.40	419	1.18	0.01
SBS001		3.09	8.8	6.69	17.15	0.11	0.32	0.02	0.053	0.13	9.3	21.9	2.78	724	0.35	0.04
SBS002		1.34	7.4	6.52	15.20	0.06	0.24	0.03	0.044	0.06	6.7	17.0	1.12	271	0.30	0.03
SBS003		2.33	16.8	5.74	14.30	<0.05	0.06	0.06	0.050	0.12	7.7	14.1	0.82	218	0.88	0.02
SBS004		1.35	19.4	5.29	13.00	0.07	0.07	0.05	0.038	0.13	23.1	14.8	0.87	176	0.78	0.02
SBS005		1.53	10.1	3.36	9.60	0.07	0.05	0.04	0.026	0.17	33.6	7.5	0.31	114	0.89	0.01
SBS006		1.03	21.9	5.44	10.30	0.08	0.12	0.05	0.021	0.19	46.8	10.3	0.64	114	1.65	0.02
SBS007		0.93	50.6	5.93	13.55	0.11	0.09	0.05	0.036	0.09	62.6	13.5	0.94	142	2.30	0.01
SBS008		1.78	15.9	4.95	13.00	0.08	0.05	0.03	0.039	0.17	38.5	13.6	0.77	181	2.50	0.01
SBS009		1.60	31.5	4.70	14.40	0.10	0.06	0.05	0.042	0.15	49.8	15.5	0.95	178	1.84	0.01
SBS010		1.64	29.9	6.03	14.40	0.10	0.07	0.11	0.041	0.22	44.6	12.5	0.58	179	2.04	0.01
SBS011		2.07	35.5	6.47	16.30	0.10	0.07	0.12	0.047	0.22	41.5	15.2	0.60	187	2.00	0.01
SBS012		1.73	55.6	6.32	15.75	0.08	0.05	0.11	0.050	0.14	37.8	17.3	0.80	199	1.15	0.01
SBS013		2.30	81.4	5.67	15.75	0.10	0.05	0.12	0.060	0.25	48.8	19.3	0.50	103	1.90	0.01
SBS014		2.10	145.0	7.41	17.55	0.19	0.08	0.15	0.073	0.13	74.7	22.3	1.09	302	1.40	0.01
SBS015		2.98	80.5	6.46	16.25	0.18	0.26	0.04	0.071	0.07	91.6	22.9	0.98	206	1.05	0.01
SBS016		0.80	95.4	4.28	7.48	0.06	0.27	0.04	0.024	0.41	35.1	3.8	0.10	21	0.93	0.01
SBS017		1.24	35.1	3.49	3.24	0.11	0.21	0.10	0.036	0.32	51.7	2.1	0.04	25	3.12	<0.01
SBS018		1.02	38.9	4.82	4.84	0.10	0.11	0.05	0.052	0.32	43.5	3.4	0.08	29	1.14	0.01
SBS019		2.82	13.3	5.59	20.3	0.08	0.08	0.11	0.049	0.15	18.5	18.9	0.76	199	1.04	0.03
SBS020		1.07	10.8	5.57	18.20	0.10	0.10	0.02	0.043	0.11	21.6	35.2	2.72	577	0.33	0.02
SBS021		0.95	4.1	6.72	15.55	0.14	0.15	0.01	0.038	0.09	25.4	20.8	2.46	519	0.28	0.05
SBS022		3.99	4.0	3.43	15.90	<0.05	0.04	0.04	0.031	0.12	12.5	15.9	1.17	313	0.69	0.03
SBS023		3.13	10.1	5.76	16.85	0.06	0.05	0.06	0.045	0.15	13.8	18.2	1.01	297	0.91	0.02
SBS024		2.14	11.9	6.07	15.25	0.06	0.10	0.07	0.040	0.16	10.8	13.4	0.84	269	1.10	0.03
SBS025		2.70	8.8	4.87	16.60	0.05	0.04	0.08	0.042	0.09	11.7	14.8	0.70	216	1.06	0.02
SBS026		4.33	16.9	5.47	15.05	0.07	0.05	0.11	0.040	0.17	19.9	14.9	0.52	169	1.19	0.02
SBS027		1.87	6.6	3.73	8.28	0.09	0.05	0.05	0.023	0.29	38.0	8.5	0.29	139	0.91	0.02



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Sample Description	Method Analyte Units LOD	ME-MS41														
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm						
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
WCS0113		0.60	9.1	330	964	23.8	0.001	0.07	4.34	8.6	4.0	0.7	8.2	<0.01	0.25	8.9
WCS0114		0.82	2.4	530	523	19.2	0.001	0.04	4.71	5.2	2.3	0.7	7.3	<0.01	0.11	17.7
WCS0115		1.35	4.4	400	864	22.5	0.001	0.03	5.20	5.7	2.4	1.3	4.9	<0.01	0.31	12.7
WCS0116		1.36	2.4	650	1480	27.4	0.001	0.03	4.21	4.9	2.0	1.7	9.9	<0.01	0.29	8.4
WCS0117		1.50	3.4	740	2020	27.6	0.001	0.04	4.53	7.6	3.0	1.8	9.2	<0.01	0.35	13.0
WCS0118		1.61	3.4	850	2130	32.1	0.001	0.05	4.48	7.9	2.5	1.8	10.6	<0.01	0.43	12.9
WCS0119		1.54	2.3	960	2490	13.6	0.001	0.04	8.68	6.4	3.2	1.3	11.9	<0.01	1.01	15.0
WCS0120		1.23	4.0	730	1890	36.1	0.001	0.03	4.91	9.1	2.2	0.9	13.8	<0.01	0.23	17.0
WCS0121		1.57	1.8	780	2460	17.5	0.001	0.03	8.34	5.9	2.5	1.2	7.8	<0.01	0.41	9.4
WCS0122		1.80	5.0	450	1200	17.3	0.001	0.02	3.04	7.9	1.5	0.9	4.2	<0.01	0.18	8.4
WCS0123		0.51	5.3	270	436	16.4	0.001	0.02	2.20	5.8	1.8	0.8	5.2	<0.01	0.28	6.4
WCS0124		0.46	9.8	320	425	24.7	0.001	0.04	2.59	8.3	2.3	1.2	5.2	<0.01	0.39	6.5
WCS0125		0.78	12.1	340	395	22.9	0.001	0.04	2.50	11.7	3.1	1.7	7.4	<0.01	0.52	6.3
SBS001		1.17	4.7	270	9.2	12.7	<0.001	0.01	0.18	20.8	0.9	1.1	3.8	<0.01	0.01	4.6
SBS002		1.28	4.4	380	13.3	3.4	0.001	0.02	0.27	18.7	1.2	1.0	3.6	<0.01	0.02	3.6
SBS003		1.27	6.6	250	19.5	8.1	<0.001	0.03	0.47	10.5	2.2	1.0	2.4	<0.01	0.03	3.6
SBS004		0.52	5.3	320	25.0	9.2	0.001	0.03	0.62	8.8	1.3	0.7	2.5	<0.01	0.07	3.9
SBS005		0.78	2.8	150	9.9	13.1	0.001	0.02	0.70	4.9	1.1	0.6	2.0	<0.01	0.02	7.5
SBS006		0.50	3.7	290	119.5	13.0	0.001	0.04	0.96	3.8	0.9	0.5	10.3	<0.01	0.04	17.6
SBS007		0.26	14.7	750	121.5	9.1	0.001	0.03	3.95	9.3	1.2	0.3	11.7	<0.01	0.03	12.3
SBS008		0.73	5.6	220	110.5	16.5	<0.001	0.02	1.23	7.9	1.8	0.7	6.7	<0.01	0.02	8.2
SBS009		0.65	11.9	400	104.5	13.9	0.001	0.02	1.42	9.7	1.5	0.6	9.9	<0.01	0.02	10.0
SBS010		1.11	9.3	450	110.5	17.4	<0.001	0.04	1.32	8.7	3.6	0.9	7.9	<0.01	0.06	9.3
SBS011		1.31	10.1	480	88.1	19.6	0.001	0.04	1.14	9.5	3.7	1.0	8.6	<0.01	0.09	8.0
SBS012		1.34	14.6	530	58.3	13.3	0.001	0.03	0.92	13.4	2.7	1.0	7.7	<0.01	0.02	9.5
SBS013		1.23	12.9	480	145.0	29.1	<0.001	0.04	1.24	10.6	2.5	1.1	27.2	<0.01	0.06	7.6
SBS014		2.33	27.4	860	67.2	11.0	0.001	0.05	1.02	21.1	4.2	1.4	36.4	<0.01	0.10	10.1
SBS015		2.35	25.3	650	60.3	11.3	0.001	0.02	0.66	16.0	1.7	1.4	74.4	<0.01	0.03	15.8
SBS016		0.24	3.7	310	89.5	17.7	0.001	0.02	2.35	4.4	0.7	0.4	23.6	<0.01	0.10	10.2
SBS017		0.11	1.4	500	247	13.7	0.001	0.02	3.61	1.3	0.8	0.3	2.9	<0.01	0.09	13.6
SBS018		0.19	2.5	470	54.5	16.1	<0.001	0.02	1.60	2.1	0.8	0.3	3.0	<0.01	0.11	12.8
SBS019		1.05	3.9	190	17.6	13.6	<0.001	0.04	0.36	12.3	2.4	1.1	3.8	<0.01	0.06	3.6
SBS020		0.18	7.2	610	12.1	8.5	<0.001	0.05	0.28	24.6	0.6	0.4	5.1	<0.01	0.03	4.0
SBS021		1.23	4.5	270	3.5	4.8	0.001	0.03	0.12	20.2	0.3	0.6	7.9	<0.01	0.01	1.8
SBS022		1.11	4.0	80	11.3	12.9	<0.001	0.02	0.19	10.3	0.6	0.9	3.9	<0.01	0.01	2.5
SBS023		1.18	4.7	180	17.4	16.4	<0.001	0.03	0.34	12.0	1.6	1.0	2.9	<0.01	0.03	3.2
SBS024		1.76	3.6	180	16.3	15.6	<0.001	0.03	0.31	9.1	1.8	1.1	2.8	<0.01	0.04	3.5
SBS025		1.41	4.0	160	8.9	10.9	<0.001	0.03	0.21	9.4	1.9	1.1	2.8	<0.01	0.02	2.6
SBS026		0.88	4.8	240	18.2	18.0	<0.001	0.05	0.33	9.2	2.2	1.0	3.2	<0.01	0.05	2.5
SBS027		1.38	2.3	110	9.9	24.8	<0.001	0.03	0.35	3.9	1.1	0.5	2.2	<0.01	0.02	8.5



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Sample Description	Method Analyte Units LOD	ME-MS41	Au-TL43							
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
WCS0113		0.021	2.93	2.24	75	0.09	5.11	472	2.5	0.003
WCS0114		0.023	0.41	3.42	60	<0.05	4.55	154	12.0	0.002
WCS0115		0.045	0.66	1.72	84	0.20	4.88	237	3.8	0.002
WCS0116		0.043	0.85	1.07	84	0.25	7.09	239	1.0	0.002
WCS0117		0.043	1.20	1.58	111	0.31	7.80	271	2.8	0.003
WCS0118		0.050	1.02	1.57	104	0.29	8.70	263	1.9	0.004
WCS0119		0.074	0.44	1.74	123	0.37	9.53	416	3.7	0.002
WCS0120		0.072	0.97	1.34	109	0.32	10.20	349	10.2	0.005
WCS0121		0.061	0.61	0.87	106	0.45	7.28	246	4.2	0.001
WCS0122		0.096	0.46	0.98	102	0.26	5.73	263	4.3	0.002
WCS0123		0.021	0.35	0.83	102	0.09	3.84	97	4.0	0.003
WCS0124		0.014	0.56	1.05	113	0.14	4.45	149	2.7	0.004
WCS0125		0.025	0.60	1.51	165	0.17	4.77	208	2.8	0.005
SBS001		0.234	0.10	0.94	195	<0.05	4.40	106	11.7	0.001
SBS002		0.111	0.04	0.90	162	<0.05	4.02	70	10.3	0.001
SBS003		0.075	0.07	0.83	154	<0.05	4.33	50	3.1	0.001
SBS004		0.026	0.07	0.71	120	<0.05	3.53	48	3.8	0.001
SBS005		0.022	0.09	0.88	78	<0.05	3.67	25	2.3	<0.001
SBS006		0.010	0.10	2.53	45	0.16	5.02	66	5.1	0.001
SBS007		0.010	0.07	2.59	151	0.05	3.60	59	4.8	0.001
SBS008		0.035	0.13	1.43	113	<0.05	4.45	59	2.7	0.001
SBS009		0.026	0.11	2.06	130	<0.05	4.91	74	2.7	0.001
SBS010		0.033	0.14	2.16	133	<0.05	5.58	61	3.0	0.001
SBS011		0.042	0.18	2.46	151	<0.05	5.83	59	2.6	0.001
SBS012		0.072	0.14	2.92	194	<0.05	5.96	83	2.1	0.001
SBS013		0.037	0.27	3.24	169	<0.05	4.99	49	2.0	0.002
SBS014		0.121	0.16	4.23	251	<0.05	10.85	77	4.0	0.005
SBS015		0.137	0.23	3.00	259	<0.05	8.55	47	13.3	0.004
SBS016		0.012	0.17	1.42	48	<0.05	3.55	33	14.7	0.003
SBS017		<0.005	0.13	1.59	9	<0.05	3.60	46	8.8	0.001
SBS018		<0.005	0.11	1.53	25	<0.05	3.74	33	5.7	0.002
SBS019		0.057	0.13	0.80	177	<0.05	3.48	44	3.8	0.001
SBS020		0.018	0.06	0.97	170	<0.05	9.25	139	4.7	0.001
SBS021		0.192	0.04	0.36	186	<0.05	12.20	78	5.4	0.001
SBS022		0.093	0.08	0.62	130	<0.05	2.46	47	2.0	<0.001
SBS023		0.058	0.11	0.90	170	<0.05	3.43	61	1.9	0.001
SBS024		0.075	0.10	0.80	147	<0.05	3.27	41	5.2	0.001
SBS025		0.069	0.08	0.79	154	<0.05	3.05	39	1.9	<0.001
SBS026		0.032	0.12	0.95	140	<0.05	4.67	40	1.4	0.001
SBS027		0.017	0.11	1.09	70	<0.05	4.97	22	2.1	<0.001



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Sample Description	Method Analyte Units LOD	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
SBS028		0.67		0.02	6.28	6.7	<0.02	<10	100	1.35	0.05	0.02	0.05	123.5	5.3	61
SBS029		0.76		0.03	2.64	2.1	<0.02	<10	30	0.30	0.12	0.01	0.01	50.6	5.2	18
SBS030		0.54		0.04	3.07	7.5	<0.02	<10	60	0.35	0.19	0.01	0.01	56.9	3.3	19
SBS031		0.91		0.35	4.03	18.2	<0.02	<10	50	0.27	0.15	0.01	0.02	57.3	3.7	36
SBS032		0.83		0.04	4.27	24.0	<0.02	<10	50	0.43	0.13	0.01	0.03	64.2	6.4	58
SBS033		0.91		0.04	5.01	27.1	<0.02	<10	60	0.42	0.17	0.01	0.05	68.2	6.3	63
SBS034		1.02		0.07	4.92	32.5	<0.02	<10	60	0.51	0.19	0.01	0.05	79.3	8.8	70
SBS035		0.93		0.07	5.36	18.4	<0.02	<10	80	0.49	0.22	0.02	0.05	76.8	10.1	124
SBS036		0.38		0.03	4.88	16.9	<0.02	<10	120	0.69	0.21	0.01	0.05	42.3	15.0	105
SBS037		0.55		0.13	3.99	23.5	<0.02	<10	90	0.23	0.18	0.03	0.03	64.8	3.4	126
SBS038		0.47	98.6	0.04	5.80	22.4	<0.02	<10	200	0.36	0.36	0.01	0.07	40.5	4.5	104
SBS039		0.79		0.09	4.40	16.9	<0.02	<10	90	0.29	0.29	0.01	0.06	77.4	5.3	42
SBS040		0.80		0.05	1.67	4.7	<0.02	<10	40	0.19	0.13	0.01	0.02	82.6	1.0	18
SBS041		0.81		0.26	1.33	2.9	<0.02	<10	50	0.21	0.16	0.01	0.10	88.2	0.7	10
SBS042		0.70		0.08	5.05	5.4	<0.02	<10	90	0.24	0.39	0.01	0.14	85.1	1.9	10
SBS043		0.70		0.31	2.33	4.3	<0.02	<10	40	0.22	0.24	0.01	0.05	74.0	1.9	14
SBS044		0.79		0.10	4.41	2.5	<0.02	<10	30	0.25	0.14	0.01	0.03	47.0	4.0	18
SBS045		1.01		0.05	3.87	2.5	<0.02	<10	30	0.24	0.15	0.01	0.02	32.6	5.8	17

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Sample Description	Method Analyte Units LOD	ME-MS41														
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		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	0.01
SBS028		3.30	85.5	3.04	19.00	0.12	0.57	0.03	0.044	0.14	68.1	5.6	0.33	51	0.59	0.01
SBS029		1.58	10.0	2.60	10.55	0.06	0.12	0.02	0.029	0.18	26.0	11.6	0.97	285	1.06	0.03
SBS030		1.71	11.7	3.23	10.25	0.08	0.18	0.02	0.030	0.30	30.5	8.5	0.48	139	0.98	0.02
SBS031		2.60	21.9	4.09	13.85	0.09	0.07	0.05	0.036	0.14	30.9	12.8	0.33	112	1.86	0.01
SBS032		1.61	40.1	5.40	12.55	0.10	0.29	0.03	0.036	0.19	35.2	11.7	0.57	161	2.01	0.01
SBS033		2.16	49.0	5.19	15.50	0.09	0.11	0.04	0.042	0.15	35.9	13.7	0.61	148	1.94	0.01
SBS034		1.69	59.1	6.17	14.00	0.10	0.08	0.08	0.042	0.19	40.0	12.8	0.69	163	2.33	0.01
SBS035		1.29	83.7	5.46	13.00	0.11	0.12	0.07	0.039	0.18	54.2	15.3	0.86	179	1.70	0.01
SBS036		0.69	84.6	5.38	9.25	0.11	0.46	0.04	0.019	0.43	42.9	13.3	0.98	256	0.50	0.01
SBS037		1.30	70.9	6.23	11.90	0.10	0.22	0.07	0.035	0.13	44.1	10.1	0.53	142	3.77	0.04
SBS038		0.65	59.9	3.95	10.20	0.08	0.37	0.04	0.034	0.29	23.4	8.4	0.65	141	1.10	0.04
SBS039		2.42	33.8	3.13	14.30	0.09	0.12	0.09	0.037	0.19	45.9	14.4	0.45	85	1.56	0.02
SBS040		1.26	6.2	1.27	6.80	0.10	0.03	0.03	0.014	0.24	43.8	2.8	0.09	119	1.41	0.02
SBS041		0.67	9.5	1.32	3.62	0.10	0.08	0.05	0.008	0.29	46.9	1.8	0.06	146	0.79	0.01
SBS042		1.41	27.2	1.00	8.30	0.09	0.12	0.07	0.018	0.16	44.7	5.2	0.13	65	0.55	0.02
SBS043		1.26	9.4	2.87	6.49	0.10	0.05	0.06	0.016	0.18	38.7	5.0	0.13	144	1.04	0.02
SBS044		4.28	6.3	4.15	13.75	0.08	0.05	0.08	0.037	0.16	23.9	13.3	0.42	147	1.18	0.02
SBS045		3.29	7.5	4.45	14.25	0.09	0.03	0.03	0.038	0.12	16.0	13.2	0.77	213	0.94	0.03

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Sample Description	Method Analyte Units LOD	ME-MS41														
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm						
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
SBS028		0.07	9.7	580	12.4	19.1	<0.001	0.07	0.48	42.0	0.3	0.3	7.2	<0.01	0.02	24.4
SBS029		0.99	4.6	100	12.2	15.3	<0.001	0.02	0.54	7.9	0.2	0.7	3.6	<0.01	0.01	6.5
SBS030		1.24	5.7	110	23.1	19.8	<0.001	0.01	0.74	5.1	0.8	0.8	7.4	<0.01	0.03	8.9
SBS031		1.10	8.3	150	35.5	18.2	<0.001	0.03	0.81	6.6	1.2	0.9	8.7	<0.01	0.02	9.4
SBS032		1.38	12.9	310	37.5	13.8	<0.001	0.03	1.38	10.2	2.0	0.7	9.8	<0.01	0.03	15.8
SBS033		1.27	14.1	300	49.4	16.2	<0.001	0.02	1.33	11.9	2.1	0.8	13.9	<0.01	0.03	14.4
SBS034		1.35	15.8	490	56.2	15.0	<0.001	0.03	1.71	12.5	2.8	0.7	15.2	<0.01	0.04	13.8
SBS035		1.92	23.1	430	37.8	13.0	<0.001	0.03	1.05	15.2	2.2	0.8	25.6	<0.01	0.04	17.6
SBS036		3.23	23.2	380	48.7	20.6	0.001	0.03	0.68	9.8	0.9	0.5	5.0	<0.01	0.05	16.1
SBS037		1.28	21.7	270	27.5	11.3	<0.001	0.10	1.28	11.2	0.8	0.9	27.2	<0.01	0.04	13.5
SBS038		1.84	21.5	440	43.9	12.8	<0.001	0.03	1.51	8.7	0.5	0.9	20.3	<0.01	0.07	15.4
SBS039		1.83	10.7	230	36.2	19.8	<0.001	0.05	0.89	7.3	1.3	1.1	15.5	<0.01	0.06	8.7
SBS040		0.70	3.1	100	30.5	16.2	<0.001	0.02	0.76	1.7	0.3	0.6	5.4	<0.01	0.01	6.0
SBS041		0.44	3.8	100	39.7	14.0	<0.001	0.02	0.48	0.9	<0.2	0.4	2.7	<0.01	0.02	8.9
SBS042		0.82	7.5	170	44.3	10.4	<0.001	0.06	0.52	2.2	0.9	0.6	5.2	<0.01	0.07	11.8
SBS043		0.91	3.5	140	15.6	12.4	<0.001	0.03	0.43	2.4	0.8	0.6	2.8	<0.01	0.04	8.5
SBS044		0.86	3.9	140	11.7	18.1	<0.001	0.04	0.30	7.4	1.6	0.8	2.9	<0.01	0.02	4.6
SBS045		0.58	4.1	110	13.1	15.8	<0.001	0.02	0.24	9.3	1.1	0.8	3.5	<0.01	0.02	3.2

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Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-TL43
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
SBS028		0.030	0.12	11.00	255	<0.05	8.54	64	25.5	0.001
SBS029		0.055	0.07	0.86	93	<0.05	4.47	42	5.3	0.001
SBS030		0.043	0.12	1.19	87	<0.05	4.58	30	8.2	0.001
SBS031		0.035	0.21	1.60	123	<0.05	3.46	35	4.2	0.001
SBS032		0.058	0.13	2.65	141	<0.05	4.93	61	13.7	0.001
SBS033		0.053	0.15	3.12	171	<0.05	4.84	66	6.3	0.001
SBS034		0.055	0.13	3.36	154	<0.05	6.20	73	4.7	0.001
SBS035		0.101	0.11	5.26	164	0.05	6.92	59	6.5	0.002
SBS036		0.155	0.13	3.96	110	0.07	10.30	78	20.1	0.001
SBS037		0.076	0.11	3.49	155	<0.05	3.74	31	10.4	0.002
SBS038		0.096	0.09	3.61	101	<0.05	2.69	65	18.5	0.002
SBS039		0.055	0.20	2.25	139	<0.05	4.07	29	6.0	0.001
SBS040		0.012	0.09	0.85	30	<0.05	3.49	11	1.2	<0.001
SBS041		<0.005	0.09	0.79	7	<0.05	4.46	12	3.0	0.001
SBS042		0.006	0.07	1.39	16	<0.05	4.14	31	4.1	0.001
SBS043		0.008	0.06	1.45	47	<0.05	4.22	18	1.4	<0.001
SBS044		0.026	0.12	1.07	123	<0.05	4.32	35	1.8	<0.001
SBS045		0.026	0.12	0.79	137	<0.05	3.50	45	1.6	<0.001

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



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

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 Total # Appendix Pages: 1
 Finalized Date: 31-MAR-2020
 Account: COPMIN

CERTIFICATE OF ANALYSIS BR20055748

CERTIFICATE COMMENTS													
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41</p>												
Applies to Method:	<p style="text-align: center;">ACCREDITATION COMMENTS</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 Au-TL43 ME-MS41</p>												
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 116 Delta Street, Geebung, QLD 4034, Australia</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-TL43</td> <td style="width: 33%;">BAG-01</td> <td style="width: 33%;">DRY-22</td> <td style="width: 33%;">LEV-01</td> </tr> <tr> <td>LOG-22</td> <td>ME-MS41</td> <td>PUL-31</td> <td>PUL-QC</td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Au-TL43	BAG-01	DRY-22	LEV-01	LOG-22	ME-MS41	PUL-31	PUL-QC	SPL-21	WEI-21		
Au-TL43	BAG-01	DRY-22	LEV-01										
LOG-22	ME-MS41	PUL-31	PUL-QC										
SPL-21	WEI-21												