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Plus Appendix Pages
Finalized Date: 10-MAY-2016
Account: AUSHUA

QC CERTIFICATE BU16061176

Project: YT_01_2016

This report is for 117 Soil samples submitted to our lab in Burnie, TAS, Australia on 22-APR-2016.

The following have access to data associated with this certificate:

LAURIE VESKA

DR JOE XIE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize split to 85% <75 um
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS41L	Super Trace Lowest DL AR by ICP-MS

To: AUSTRALIAN HUALONG PTY LTD
ATTN: DR JOE XIE
19 GUBBUTEH ROAD
LITTLE BAY NSW 2036

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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Method Analyte Units LOR	ME-MS41L Au ppm	ME-MS41L Ag ppm	ME-MS41L Al %	ME-MS41L As ppm	ME-MS41L B ppm	ME-MS41L Ba ppm	ME-MS41L Be ppm	ME-MS41L Bi ppm	ME-MS41L Ca %	ME-MS41L Cd ppm	ME-MS41L Ce ppm	ME-MS41L Co ppm	ME-MS41L Cr ppm	ME-MS41L Cs ppm	ME-MS41L Cu ppm
Sample Description	0.0002	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01
STANDARDS															
GLG908-4	0.0633	1.320	1.07	0.49	<10	54.0	0.32	0.077	0.54	0.028	24.8	11.25	12.90	1.975	46.8
GLG908-4	0.0556	1.340	1.04	0.32	<10	51.9	0.30	0.083	0.52	0.034	24.7	11.35	13.60	2.03	47.0
Target Range - Lower Bound	0.0622	1.255	0.88	0.37	<10	44.9	0.26	0.068	0.43	0.031	21.4	10.10	11.20	1.795	44.0
Upper Bound	0.0765	1.535	1.10	0.48	20	62.0	0.34	0.085	0.55	0.040	26.2	12.40	13.70	2.20	50.6
MRGeo08	0.0038	4.36	2.53	33.7	<10	422	0.78	0.700	1.01	2.25	69.1	19.00	88.1	10.65	599
MRGeo08	0.0040	4.41	2.62	33.4	<10	439	0.78	0.696	1.06	2.37	73.6	19.40	89.6	11.45	617
Target Range - Lower Bound	0.0033	4.01	2.44	29.7	<10	381	0.72	0.612	1.00	2.02	66.2	17.10	82.3	9.45	587
Upper Bound	0.0045	4.91	3.00	36.3	20	517	0.90	0.750	1.24	2.47	81.0	20.9	100.5	11.55	675
OREAS-45d	0.0239	0.116	4.80	6.33	<10	81.4	0.59	0.284	0.08	0.021	24.7	26.9	446	2.69	331
OREAS-45d	0.0224	0.135	4.83	6.36	<10	81.9	0.55	0.266	0.08	0.026	24.4	28.2	450	2.50	334
Target Range - Lower Bound	0.0187	0.114	4.36	5.84	<10	67.5	0.49	0.229	0.06	0.021	22.3	23.6	420	2.14	321
Upper Bound	0.0233	0.142	5.36	7.16	30	92.5	0.62	0.282	0.11	0.028	27.3	28.8	514	2.62	369
OREAS-45e	0.0506	0.248	3.45	13.60	<10	144.0	0.45	0.257	0.03	0.023	18.30	56.4	829	0.828	714
OREAS-45e	0.0497	0.237	3.25	12.05	10	142.5	0.41	0.243	0.03	0.023	17.50	53.2	837	0.760	721
Target Range - Lower Bound	0.0448	0.224	2.98	11.25	<10	117.5	0.36	0.197	<0.01	0.018	15.95	46.8	764	0.623	659
Upper Bound	0.0552	0.276	3.66	13.75	20	160.5	0.46	0.243	0.05	0.024	19.45	57.2	934	0.773	759
BLANKS															
BLANK	<0.0002	<0.001	<0.01	0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	0.01
BLANK	<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	0.001	<0.01	<0.005	<0.01
BLANK	0.0003	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
BLANK	<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	0.002	0.04	<0.005	<0.01
BLANK	0.0004	0.001	<0.01	<0.01	<10	<0.5	<0.01	0.001	<0.01	0.001	<0.003	<0.001	<0.01	<0.005	0.01
BLANK	<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	0.01	<0.005	0.01
BLANK	<0.0002	<0.001	<0.01	0.01	<10	<0.5	<0.01	0.001	<0.01	<0.001	<0.003	<0.001	0.03	<0.005	<0.01
BLANK	<0.0002	0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	0.002	<0.01	<0.005	<0.01
Target Range - Lower Bound	<0.0002	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
Upper Bound	0.0004	0.002	0.02	0.02	20	1.0	0.02	0.002	0.02	0.002	0.006	0.002	0.02	0.010	0.02



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Method Analyte Units LOR	ME-MS41L Fe %	ME-MS41L Ga ppm	ME-MS41L Ge ppm	ME-MS41L Hf ppm	ME-MS41L Hg ppm	ME-MS41L In ppm	ME-MS41L K %	ME-MS41L La ppm	ME-MS41L Li ppm	ME-MS41L Mg %	ME-MS41L Mn ppm	ME-MS41L Mo ppm	ME-MS41L Na %	ME-MS41L Nb ppm	ME-MS41L Ni ppm
Sample Description	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04
STANDARDS															
GLG908-4	2.55	4.77	0.086	0.554	<0.004	0.012	0.32	13.45	12.2	0.53	276	7.47	0.079	0.521	15.25
GLG908-4	2.54	4.89	0.109	0.564	<0.004	0.018	0.31	12.70	13.2	0.51	267	7.58	0.074	0.513	14.25
Target Range - Lower Bound	2.22	4.03	0.069	0.472	<0.004	<0.005	0.28	11.20	11.1	0.49	247	6.97	0.061	0.385	13.00
Upper Bound	2.72	4.93	0.097	0.581	0.014	0.023	0.37	13.70	13.8	0.62	303	8.54	0.077	0.475	16.00
MRGeo08	3.43	9.63	0.197	0.728	0.064	0.150	1.19	35.2	32.9	1.09	390	14.10	0.334	0.672	642
MRGeo08	3.55	9.79	0.185	0.806	0.054	0.171	1.23	34.9	33.5	1.13	407	15.15	0.350	0.791	664
Target Range - Lower Bound	3.23	8.77	0.161	0.658	0.047	0.137	1.12	31.3	29.6	1.03	382	13.15	0.310	0.844	622
Upper Bound	3.95	10.75	0.207	0.808	0.075	0.179	1.40	38.3	36.4	1.29	468	16.05	0.381	1.035	760
OREAS-45d	13.10	17.00	0.113	0.519	0.044	0.071	0.10	10.40	13.8	0.13	359	1.54	0.032	0.410	182.0
OREAS-45d	13.05	17.60	0.117	0.491	0.040	0.080	0.10	9.87	13.1	0.14	364	1.64	0.030	0.414	182.0
Target Range - Lower Bound	12.30	16.10	0.103	0.421	0.027	0.071	0.07	8.96	10.6	0.12	333	1.49	0.027	0.347	158.5
Upper Bound	15.00	19.70	0.137	0.519	0.051	0.099	0.12	10.95	13.2	0.17	407	1.85	0.035	0.429	193.5
OREAS-45e	22.6	14.15	0.388	0.804	0.009	0.091	0.06	7.40	3.2	0.09	374	1.85	0.027	0.195	379
OREAS-45e	22.3	13.50	0.370	0.831	0.015	0.094	0.06	6.59	2.8	0.09	378	1.76	0.026	0.224	375
Target Range - Lower Bound	20.4	11.25	0.319	0.703	<0.004	0.076	0.03	5.86	2.2	0.07	329	1.63	0.023	0.196	321
Upper Bound	25.0	13.75	0.401	0.863	0.020	0.105	0.08	7.16	2.9	0.12	403	2.01	0.031	0.244	393
BLANKS															
BLANK	<0.001	0.004	0.006	<0.002	<0.004	<0.005	<0.01	<0.002	0.1	<0.01	<0.1	0.01	0.001	<0.002	<0.04
BLANK	<0.001	<0.004	0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	0.001	<0.002	<0.04
BLANK	<0.001	0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	0.002	<0.002	<0.04
BLANK	<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	0.001	<0.002	<0.04
BLANK	<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	0.01	<0.001	<0.002	<0.04
BLANK	<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	0.001	<0.002	<0.04
BLANK	<0.001	0.008	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
BLANK	<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Target Range - Lower Bound	<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound	0.002	0.008	0.010	0.004	0.008	0.010	0.02	0.004	0.2	0.02	0.2	0.02	0.002	0.004	0.08



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Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
STANDARDS															
GLG908-4		0.050	18.00	0.001	<0.002	39.9	0.001	0.07	0.606	2.59	0.6	1.27	14.80	<0.005	0.01
GLG908-4		0.049	17.50	0.001	0.002	38.6	<0.001	0.05	0.581	2.56	0.9	1.30	14.35	<0.005	0.01
Target Range - Lower Bound		0.044	15.15	<0.001	<0.002	35.6	<0.001	0.03	0.483	2.20	0.3	1.00	11.75	<0.005	<0.01
Upper Bound		0.056	18.55	0.004	0.007	43.5	0.003	0.07	0.665	2.70	0.8	1.25	14.35	0.010	0.03
MRGeo08		0.095	1005	0.008	0.003	146.0	0.007	0.29	3.32	7.50	1.6	3.47	81.1	0.005	0.02
MRGeo08		0.100	1045	0.002	0.004	145.5	0.007	0.31	3.26	7.52	1.7	3.63	83.4	0.009	0.02
Target Range - Lower Bound		0.090	959	0.004	<0.002	132.5	0.006	0.27	2.84	6.83	1.1	3.05	72.3	<0.005	<0.01
Upper Bound		0.113	1175	0.008	0.006	161.5	0.010	0.35	3.86	8.35	1.7	3.75	88.3	0.024	0.04
OREAS-45d		0.033	17.05	0.032	0.054	22.2	<0.001	0.06	0.365	44.6	1.3	1.82	11.35	<0.005	0.04
OREAS-45d		0.033	16.40	0.026	0.047	20.6	<0.001	0.05	0.309	45.3	1.6	1.77	10.15	<0.005	0.05
Target Range - Lower Bound		0.031	15.30			18.80	<0.001	0.02	0.293	37.3	0.9	1.64	9.89	<0.005	0.02
Upper Bound		0.040	18.70			23.0	0.003	0.07	0.408	45.7	1.5	2.02	12.10	0.015	0.06
OREAS-45e		0.030	14.40	0.065	0.113	8.88	<0.001	0.04	0.533	87.3	2.3	0.98	4.37	<0.005	0.08
OREAS-45e		0.029	14.10	0.060	0.113	7.63	<0.001	0.05	0.465	83.4	2.3	0.91	3.94	<0.005	0.09
Target Range - Lower Bound		0.025	11.90	0.055	0.102	6.75	<0.001	0.02	0.461	70.2	1.5	0.79	3.58	<0.005	0.08
Upper Bound		0.033	14.60	0.069	0.129	8.27	0.002	0.07	0.635	85.8	2.1	0.99	4.40	0.021	0.13
BLANKS															
BLANK		<0.001	<0.005	0.001	<0.002	<0.005	<0.001	0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	0.015	<0.001	<0.002	0.007	<0.001	0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	0.01
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	<0.005	0.001	0.003	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	0.1	<0.01	<0.01	<0.005	<0.01
BLANK		<0.001	<0.005	<0.001	<0.002	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	0.01	<0.01	<0.005	0.01
Target Range - Lower Bound		<0.001	<0.005			<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01
Upper Bound		0.002	0.010			0.010	0.002	0.02	0.010	0.010	0.2	0.02	0.02	0.010	0.02



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Sample Description	Method Analyte Units LOR	ME-MS41L Ti %	ME-MS41L Ti ppm	ME-MS41L U ppm	ME-MS41L V ppm	ME-MS41L W ppm	ME-MS41L Y ppm	ME-MS41L Zn ppm	ME-MS41L Zr ppm
		0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
STANDARDS									
GLG908-4		0.270	0.300	6.17	60.4	0.357	13.30	43.0	20.8
GLG908-4		0.260	0.292	5.84	61.6	0.358	13.10	44.5	20.5
Target Range - Lower Bound		0.218	0.260	5.21	50.5	0.279	11.10	42.0	17.40
Upper Bound		0.269	0.357	6.38	61.9	0.380	13.60	51.6	23.6
MRGeo08		0.355	0.726	5.56	98.1	2.66	19.85	721	21.4
MRGeo08		0.368	0.729	5.56	105.5	2.98	20.8	750	22.9
Target Range - Lower Bound		0.342	0.661	4.97	90.8	2.49	17.55	710	18.60
Upper Bound		0.420	0.899	6.09	111.0	3.37	21.5	868	25.2
OREAS-45d		0.091	0.127	1.710	194.0	0.031	4.89	30.4	21.1
OREAS-45d		0.095	0.130	1.595	196.5	0.032	4.82	32.3	20.8
Target Range - Lower Bound		0.073	0.100	1.470	181.0	0.046	4.57	27.4	16.75
Upper Bound		0.091	0.140	1.810	221	0.064	5.59	33.8	22.7
OREAS-45e		0.112	0.063	1.850	282	0.060	6.17	32.9	28.7
OREAS-45e		0.106	0.054	1.725	286	0.089	5.74	31.5	27.8
Target Range - Lower Bound		0.094	0.048	1.460	258	0.081	4.97	28.9	23.7
Upper Bound		0.118	0.070	1.795	316	0.111	6.09	35.5	32.1
BLANKS									
BLANK		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	0.001	<0.003	0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	0.001	<0.003	<0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	0.001	<0.003	<0.1	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01
Upper Bound		0.002	0.004	0.010	0.2	0.002	0.006	0.2	0.02



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Method Analyte Units LOR	ME-MS41L Au ppm	ME-MS41L Ag ppm	ME-MS41L Al %	ME-MS41L As ppm	ME-MS41L B ppm	ME-MS41L Ba ppm	ME-MS41L Be ppm	ME-MS41L Bi ppm	ME-MS41L Ca %	ME-MS41L Cd ppm	ME-MS41L Ce ppm	ME-MS41L Co ppm	ME-MS41L Cr ppm	ME-MS41L Cs ppm	ME-MS41L Cu ppm
Sample Description	0.0002	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01
DUPLICATES															
10	0.0021	0.016	0.64	10.70	<10	8.3	0.13	0.087	0.02	0.014	12.05	10.75	219	0.691	2.22
DUP	0.0019	0.017	0.67	11.25	<10	8.7	0.13	0.083	0.02	0.020	12.40	10.95	238	0.793	2.55
Target Range - Lower Bound	0.0017	0.015	0.61	10.40	<10	7.4	0.11	0.080	<0.01	0.015	11.60	10.30	217	0.700	2.29
Upper Bound	0.0023	0.018	0.70	11.55	20	9.6	0.15	0.090	0.03	0.019	12.85	11.40	240	0.784	2.48
30	<0.0002	0.011	0.12	0.26	<10	7.1	0.03	0.027	0.01	0.003	23.3	0.225	3.41	0.529	0.87
DUP	<0.0002	0.014	0.11	0.22	<10	6.7	0.01	0.030	0.01	0.004	22.7	0.234	3.44	0.514	0.90
Target Range - Lower Bound	<0.0002	0.011	0.10	0.22	<10	5.9	<0.01	0.026	<0.01	0.002	21.8	0.217	3.24	0.490	0.84
Upper Bound	0.0004	0.014	0.13	0.26	20	7.9	0.03	0.031	0.02	0.005	24.2	0.242	3.61	0.553	0.93
43	0.0003	0.028	0.18	0.48	<10	8.1	0.02	0.066	0.02	0.009	37.9	0.467	14.45	1.120	3.77
DUP	0.0003	0.026	0.17	0.46	<10	7.8	0.03	0.067	0.02	0.007	36.5	0.460	13.35	1.100	3.52
Target Range - Lower Bound	<0.0002	0.025	0.16	0.44	<10	6.9	<0.01	0.062	<0.01	0.007	35.3	0.439	13.20	1.050	3.51
Upper Bound	0.0004	0.029	0.19	0.50	20	9.0	0.04	0.071	0.03	0.009	39.1	0.488	14.60	1.170	3.78
63	0.0002	0.019	0.02	0.42	<10	3.3	<0.01	0.032	0.02	0.044	1.865	0.405	6.60	0.034	5.35
DUP	0.0002	0.017	0.02	0.37	<10	3.3	<0.01	0.028	0.02	0.042	1.945	0.391	6.37	0.033	5.23
Target Range - Lower Bound	<0.0002	0.016	<0.01	0.37	<10	2.6	<0.01	0.028	<0.01	0.040	1.805	0.377	6.15	0.027	5.09
Upper Bound	0.0004	0.020	0.03	0.42	20	4.0	0.02	0.033	0.03	0.046	2.00	0.419	6.82	0.040	5.49
76	0.0003	0.021	0.49	3.82	<10	24.8	0.21	0.133	0.20	0.024	36.1	2.11	9.93	1.020	1.71
DUP	0.0005	0.018	0.48	3.45	<10	23.9	0.23	0.133	0.19	0.025	35.8	2.07	10.60	1.065	1.57
Target Range - Lower Bound	<0.0002	0.018	0.45	3.44	<10	22.0	0.20	0.125	0.18	0.022	34.1	1.985	9.74	0.985	1.57
Upper Bound	0.0006	0.021	0.52	3.83	20	26.7	0.24	0.141	0.21	0.027	37.8	2.20	10.80	1.100	1.71
96	0.0015	0.006	2.29	3.91	<10	6.9	0.41	0.042	0.01	0.027	7.90	460	4930	0.604	3.99
DUP	0.0014	0.005	2.26	3.89	<10	6.8	0.43	0.045	0.01	0.025	7.85	450	4930	0.622	3.86
Target Range - Lower Bound	0.0012	0.004	2.15	3.70	<10	5.8	0.39	0.040	<0.01	0.024	7.48	432	4680	0.577	3.78
Upper Bound	0.0017	0.007	2.40	4.11	20	7.9	0.45	0.047	0.02	0.028	8.27	478	5180	0.649	4.07
109	0.0004	0.020	2.27	5.07	<10	21.7	0.19	0.148	<0.01	0.030	27.9	3.55	115.5	1.600	22.4
DUP	0.0002	0.015	2.42	5.19	<10	22.6	0.21	0.149	0.01	0.031	29.2	3.66	119.5	1.790	23.2
Target Range - Lower Bound	<0.0002	0.016	2.22	4.86	<10	20.0	0.18	0.140	<0.01	0.028	27.1	3.42	111.5	1.605	22.0
Upper Bound	0.0004	0.019	2.47	5.40	20	24.3	0.22	0.157	0.02	0.033	30.0	3.79	123.5	1.785	23.6



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Method Analyte Units LOR	ME-MS41L Fe %	ME-MS41L Ga ppm	ME-MS41L Ge ppm	ME-MS41L Hf ppm	ME-MS41L Hg ppm	ME-MS41L In ppm	ME-MS41L K %	ME-MS41L La ppm	ME-MS41L Li ppm	ME-MS41L Mg %	ME-MS41L Mn ppm	ME-MS41L Mo ppm	ME-MS41L Na %	ME-MS41L Nb ppm	ME-MS41L Ni ppm
Sample Description	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04
DUPLICATES															
10	3.90	2.51	0.036	0.016	0.032	0.014	0.05	5.65	3.7	0.05	70.7	0.50	0.010	0.345	70.5
DUP	4.01	2.58	0.039	0.016	0.034	0.016	0.06	5.94	3.8	0.05	74.5	0.49	0.012	0.359	72.9
Target Range - Lower Bound	3.76	2.41	0.031	0.013	0.027	0.009	0.04	5.50	3.5	0.04	68.9	0.46	0.009	0.332	68.1
Upper Bound	4.15	2.68	0.044	0.019	0.039	0.021	0.07	6.09	4.0	0.06	76.3	0.53	0.013	0.372	75.3
30	0.198	0.750	0.028	0.012	0.011	<0.005	0.02	11.05	0.4	0.01	21.5	0.09	0.006	0.125	1.42
DUP	0.193	0.718	0.023	0.010	0.015	<0.005	0.02	10.95	0.4	0.01	20.8	0.08	0.005	0.125	1.33
Target Range - Lower Bound	0.185	0.693	0.019	0.008	0.008	<0.005	<0.01	10.45	0.3	<0.01	20.0	0.07	0.004	0.117	1.27
Upper Bound	0.206	0.775	0.032	0.014	0.018	0.010	0.03	11.55	0.5	0.02	22.3	0.10	0.007	0.133	1.48
43	0.360	1.630	0.043	0.013	0.023	<0.005	0.03	18.20	0.4	0.02	32.5	0.30	0.006	0.153	2.38
DUP	0.350	1.495	0.042	0.009	0.021	<0.005	0.03	17.75	0.4	0.02	31.4	0.26	0.004	0.147	2.17
Target Range - Lower Bound	0.336	1.480	0.035	0.008	0.016	<0.005	0.02	17.05	0.3	<0.01	30.3	0.26	0.004	0.141	2.12
Upper Bound	0.374	1.645	0.050	0.014	0.028	0.010	0.04	18.90	0.5	0.03	33.6	0.30	0.006	0.160	2.43
63	0.340	0.151	0.010	0.005	0.022	<0.005	0.01	0.928	<0.1	0.05	33.5	0.22	0.017	0.051	3.31
DUP	0.350	0.149	0.011	0.003	0.033	<0.005	0.01	0.977	<0.1	0.05	33.4	0.24	0.017	0.054	3.42
Target Range - Lower Bound	0.327	0.139	<0.005	<0.002	0.021	<0.005	<0.01	0.903	<0.1	0.04	31.7	0.21	0.015	0.048	3.16
Upper Bound	0.363	0.162	0.016	0.006	0.034	0.010	0.02	1.000	0.2	0.06	35.2	0.25	0.019	0.057	3.57
76	1.130	2.24	0.044	0.015	0.024	0.017	0.08	14.95	6.1	0.08	55.8	0.88	0.010	0.156	4.05
DUP	1.140	2.18	0.055	0.016	0.024	0.012	0.08	15.00	6.2	0.08	56.4	0.82	0.008	0.172	4.06
Target Range - Lower Bound	1.075	2.10	0.042	0.013	0.018	0.009	0.07	14.20	5.7	0.07	53.2	0.80	0.008	0.154	3.81
Upper Bound	1.195	2.32	0.057	0.018	0.030	0.020	0.09	15.75	6.6	0.09	59.0	0.90	0.010	0.174	4.30
96	42.0	3.60	0.513	0.201	0.238	0.024	0.02	1.565	2.4	0.22	429	0.78	0.010	0.136	5580
DUP	41.5	3.50	0.604	0.206	0.253	0.019	0.02	1.580	2.5	0.21	432	0.76	0.009	0.131	5550
Target Range - Lower Bound	39.7	3.37	0.526	0.191	0.223	0.015	<0.01	1.490	2.2	0.19	409	0.72	0.008	0.125	5290
Upper Bound	43.8	3.73	0.591	0.216	0.268	0.028	0.03	1.655	2.7	0.24	452	0.82	0.011	0.142	5840
109	4.30	7.13	0.064	0.324	0.035	0.048	0.05	10.20	9.1	0.09	81.6	0.46	0.007	0.361	44.7
DUP	4.43	7.46	0.078	0.342	0.044	0.047	0.06	10.85	10.0	0.09	85.0	0.46	0.008	0.370	47.9
Target Range - Lower Bound	4.15	6.93	0.062	0.314	0.033	0.040	0.04	10.00	9.0	0.08	79.0	0.43	0.006	0.345	43.9
Upper Bound	4.58	7.66	0.080	0.352	0.046	0.055	0.07	11.05	10.1	0.10	87.6	0.49	0.009	0.386	48.7



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Method Analyte Units LOR	ME-MS41L P %	ME-MS41L Pb ppm	ME-MS41L Pd ppm	ME-MS41L Pt ppm	ME-MS41L Rb ppm	ME-MS41L Re ppm	ME-MS41L S %	ME-MS41L Sb ppm	ME-MS41L Sc ppm	ME-MS41L Se ppm	ME-MS41L Sn ppm	ME-MS41L Sr ppm	ME-MS41L Ta ppm	ME-MS41L Te ppm	ME-MS41L Th ppm
Sample Description	0.001	0.005	0.001	0.002	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002
DUPLICATES															
10	0.008	10.60	<0.001	<0.002	7.07	<0.001	0.04	0.206	0.854	0.2	0.38	1.85	<0.005	0.01	1.740
DUP	0.009	10.65	<0.001	<0.002	7.69	<0.001	0.04	0.205	0.863	0.2	0.37	1.84	<0.005	0.01	1.825
Target Range - Lower Bound	0.007	10.10	<0.001	<0.002	7.01	<0.001	0.03	0.185	0.811	<0.1	0.35	1.74	<0.005	<0.01	1.690
Upper Bound	0.010	11.15	0.002	0.004	7.75	0.002	0.05	0.226	0.906	0.3	0.40	1.95	0.010	0.02	1.875
30	0.004	3.13	0.001	<0.002	2.02	<0.001	0.02	0.034	0.156	0.1	0.18	1.59	<0.005	0.02	2.61
DUP	0.004	2.96	0.001	<0.002	1.945	<0.001	0.02	0.031	0.179	0.1	0.17	1.55	<0.005	0.01	2.57
Target Range - Lower Bound	0.003	2.89	<0.001	<0.002	1.880	<0.001	<0.01	0.025	0.154	<0.1	0.16	1.48	<0.005	<0.01	2.46
Upper Bound	0.005	3.20	0.002	0.004	2.09	0.002	0.03	0.040	0.181	0.2	0.19	1.66	0.010	0.02	2.72
43	0.008	4.22	0.001	<0.002	5.17	<0.001	0.01	0.092	0.251	0.1	0.48	2.89	<0.005	<0.01	3.04
DUP	0.008	4.02	0.001	<0.002	5.25	<0.001	0.01	0.074	0.217	0.2	0.45	2.76	<0.005	<0.01	2.90
Target Range - Lower Bound	0.007	3.91	<0.001	<0.002	4.94	<0.001	<0.01	0.072	0.217	<0.1	0.43	2.67	<0.005	<0.01	2.82
Upper Bound	0.009	4.33	0.002	0.004	5.48	0.002	0.02	0.094	0.251	0.2	0.50	2.98	0.010	0.02	3.12
63	0.006	4.09	0.001	0.005	0.336	<0.001	0.03	0.093	0.062	0.1	0.23	5.11	<0.005	<0.01	0.325
DUP	0.005	3.87	0.001	<0.002	0.271	<0.001	0.03	0.092	0.047	0.2	0.26	4.97	<0.005	<0.01	0.351
Target Range - Lower Bound	0.004	3.78	<0.001	<0.002	0.283	<0.001	0.02	0.081	0.047	<0.1	0.22	4.78	<0.005	<0.01	0.319
Upper Bound	0.007	4.18	0.002	0.004	0.324	0.002	0.04	0.104	0.062	0.2	0.27	5.30	0.010	0.02	0.357
76	0.008	11.45	0.001	<0.002	9.76	<0.001	0.02	0.101	0.612	0.3	0.39	7.60	<0.005	<0.01	4.33
DUP	0.007	11.15	0.001	<0.002	9.55	<0.001	0.02	0.105	0.670	0.5	0.36	7.78	<0.005	0.01	4.31
Target Range - Lower Bound	0.006	10.75	<0.001	<0.002	9.17	<0.001	<0.01	0.090	0.604	0.3	0.35	7.30	<0.005	<0.01	4.10
Upper Bound	0.009	11.85	0.002	0.004	10.15	0.002	0.03	0.116	0.678	0.5	0.40	8.08	0.010	0.02	4.54
96	0.010	11.55	0.001	0.007	2.31	<0.001	0.01	0.162	19.20	5.5	0.32	2.12	<0.005	0.01	2.36
DUP	0.010	11.45	0.002	0.009	2.24	<0.001	0.01	0.164	17.95	5.2	0.29	2.26	<0.005	0.02	2.36
Target Range - Lower Bound	0.009	10.90	<0.001	0.006	2.16	<0.001	<0.01	0.146	17.65	5.0	0.28	2.07	<0.005	<0.01	2.24
Upper Bound	0.012	12.10	0.002	0.010	2.39	0.002	0.02	0.180	19.50	5.7	0.33	2.31	0.010	0.02	2.48
109	0.016	29.0	<0.001	0.003	6.41	<0.001	0.02	0.641	4.93	1.5	0.71	2.42	<0.005	0.01	4.50
DUP	0.016	31.3	<0.001	0.002	7.22	<0.001	0.02	0.678	5.51	1.5	0.75	2.63	<0.005	0.01	4.87
Target Range - Lower Bound	0.014	28.6	<0.001	<0.002	6.47	<0.001	<0.01	0.605	4.95	1.3	0.68	2.39	<0.005	<0.01	4.45
Upper Bound	0.018	31.7	0.002	0.004	7.16	0.002	0.03	0.714	5.49	1.7	0.78	2.66	0.010	0.02	4.92



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Sample Description	Method Analyte Units LOR	ME-MS41L Ti %	ME-MS41L Ti ppm	ME-MS41L U ppm	ME-MS41L V ppm	ME-MS41L W ppm	ME-MS41L Y ppm	ME-MS41L Zn ppm	ME-MS41L Zr ppm
		0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
DUPLICATES									
10		0.010	0.063	0.294	35.0	0.033	1.075	32.2	0.96
DUP		0.012	0.059	0.291	36.7	0.032	1.070	32.5	0.99
Target Range - Lower Bound		0.009	0.054	0.273	34.0	0.029	1.015	30.6	0.89
Upper Bound		0.013	0.068	0.312	37.7	0.036	1.130	34.1	1.06
30		0.005	0.020	0.256	2.0	0.014	1.560	1.7	0.59
DUP		0.004	0.021	0.243	1.9	0.013	1.435	1.3	0.53
Target Range - Lower Bound		0.003	0.017	0.232	1.8	0.011	1.420	1.3	0.51
Upper Bound		0.006	0.024	0.267	2.1	0.016	1.575	1.7	0.61
43		0.007	0.033	0.200	5.5	0.023	1.405	2.1	0.60
DUP		0.007	0.030	0.201	5.1	0.024	1.370	1.9	0.58
Target Range - Lower Bound		0.006	0.027	0.185	4.9	0.021	1.315	1.8	0.54
Upper Bound		0.008	0.036	0.216	5.7	0.026	1.460	2.2	0.64
63		0.003	0.004	0.046	0.6	0.037	0.339	5.1	0.18
DUP		0.003	0.002	0.051	0.5	0.031	0.330	4.8	0.19
Target Range - Lower Bound		0.002	<0.002	0.041	0.4	0.030	0.315	4.6	0.16
Upper Bound		0.004	0.004	0.056	0.7	0.038	0.354	5.3	0.21
76		0.003	0.065	0.678	11.7	0.027	3.45	11.6	0.75
DUP		0.003	0.061	0.683	10.8	0.028	3.35	10.7	0.78
Target Range - Lower Bound		0.002	0.056	0.641	10.6	0.024	3.23	10.5	0.70
Upper Bound		0.004	0.070	0.720	11.9	0.031	3.57	11.8	0.83
96		0.017	0.036	0.797	48.6	0.120	2.08	118.0	8.34
DUP		0.018	0.034	0.797	46.9	0.107	2.10	113.0	8.33
Target Range - Lower Bound		0.016	0.030	0.752	45.3	0.104	1.985	109.5	7.70
Upper Bound		0.019	0.040	0.842	50.2	0.123	2.20	121.5	8.97
109		0.030	0.074	0.563	69.7	0.007	2.09	35.7	11.70
DUP		0.033	0.077	0.603	72.4	0.004	2.24	37.3	12.20
Target Range - Lower Bound		0.029	0.068	0.549	67.4	0.004	2.05	34.6	11.05
Upper Bound		0.034	0.083	0.617	74.7	0.007	2.28	38.4	12.85



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	CERTIFICATE COMMENTS
Applies to Method:	<p>ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41L</p> <p>LABORATORY ADDRESSES</p> <p>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 41 Yarraman Place, Virginia, QLD, Australia ME-MS41L</p> <p>Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. LEV-01 LOG-22 WEI-21</p>