



Australian Laboratory Services Pty. Ltd.

32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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No: 825, Corporate Site No: 23001.

## QC CERTIFICATE BU18229879

Project: Henrietta

This report is for 86 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 17-SEP-2018.

The following have access to data associated with this certificate:

ROBERT REID

ANDY RUST

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Plus Appendix Pages  
Finalized Date: 3-OCT-2018  
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## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
PGM-ICP23	Pt, Pd, Au 30g FA ICP ICP-AES

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:

Cameron Brosnan, Laboratory Manager, Perth



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
STANDARDS																
AMIS0354		0.734	2.26	1.385												
AMIS0354		0.716	2.32	1.370												
Target Range - Lower Bound		0.666	2.11	1.260												
Upper Bound		0.754	2.39	1.420												
GBM908-10					2.88	7.21	58.1	1110	1.62	1.33	3.75	1.70	112.0	27.5	141	3.77
Target Range - Lower Bound					2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44
Upper Bound					3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32
GPP-14		0.916	0.509	0.489												
GPP-14		0.900	0.503	0.483												
GPP-14		0.917	0.502	0.484												
GPP-14		0.868	0.493	0.462												
GPP-14		0.932	0.519	0.481												
Target Range - Lower Bound		0.853	0.468	0.451												
Upper Bound		0.965	0.538	0.511												
JK-17		1.925	<0.005	0.002												
JK-17		1.985	<0.005	0.002												
JK-17		1.895	<0.005	0.002												
Target Range - Lower Bound		1.875														
Upper Bound		2.12														
LEA-16		0.496	<0.005	<0.001												
LEA-16		0.509	<0.005	<0.001												
Target Range - Lower Bound		0.470														
Upper Bound		0.532														
MRGeo08					4.39	7.67	34.6	1100	3.66	0.69	2.64	2.28	87.0	20.5	88	13.20
Target Range - Lower Bound					4.00	6.64	29.5	920	2.98	0.60	2.35	2.00	66.2	17.7	81	11.20
Upper Bound					4.92	8.14	36.5	1270	3.76	0.76	2.90	2.48	81.0	21.9	102	13.80
OGGeo08					19.75	6.80	113.0	610	2.96	11.05	2.13	18.55	72.3	92.7	81	11.20
OGGeo08					19.45	6.91	130.5	810	2.87	11.55	2.10	19.80	75.7	97.1	81	11.80
Target Range - Lower Bound					18.15	6.07	106.0	700	2.59	9.44	1.98	16.70	64.8	87.2	78	9.85
Upper Bound					22.2	7.44	130.0	980	3.27	11.55	2.44	20.5	79.2	107.0	98	12.15
OREAS 24b					0.07	7.62	8.5	710	2.56	0.65	1.02	0.04	85.2	15.7	120	10.60
OREAS 24b					0.07	7.69	8.2	720	2.44	0.62	1.04	0.04	86.3	16.3	115	10.60
OREAS 24b					0.08	8.03	7.4	750	2.74	0.55	1.08	0.04	82.8	15.9	122	10.25
Target Range - Lower Bound					0.05	7.02	7.3	600	2.25	0.60	0.94	<0.02	76.8	14.3	105	9.58
Upper Bound					0.10	8.60	9.4	830	2.86	0.76	1.18	0.09	93.8	17.8	131	11.80
OREAS 601					49.9	6.62	322	730	2.16	22.7	1.35	7.87	65.1	5.6	42	7.17
OREAS 601					49.6	6.19	303	970	2.08	20.1	1.31	8.04	62.3	5.2	38	6.48



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
STANDARDS																
AMIS0354																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		3610	5.66	22.1	0.14	3.7	0.075	2.14	54.7	10.8	1.84	815	70.3	2.18	11.0	2250
Target Range - Lower Bound		3350	4.98	18.65	0.13	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020
Upper Bound		3850	6.10	22.9	0.35	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2470
GPP-14																
GPP-14																
GPP-14																
GPP-14																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
JK-17																
JK-17																
JK-17																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		636	4.01	19.45	0.12	3.1	0.184	3.20	41.7	34.8	1.35	574	15.10	2.02	21.6	717
Target Range - Lower Bound		587	3.55	17.50	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622
Upper Bound		675	4.37	21.5	0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760
OGGeo08		8200	5.29	17.60	0.19	3.0	1.435	2.90	36.2	32.3	1.23	500	878	1.79	17.1	8600
OGGeo08		8070	5.41	16.55	0.13	2.8	1.495	2.94	36.6	29.8	1.20	485	867	1.83	18.4	8480
Target Range - Lower Bound		7800	4.81	16.05	0.25	2.5	1.320	2.59	31.0	29.7	1.11	447	841	1.62	15.4	8000
Upper Bound		8980	5.91	19.75	0.49	3.3	1.620	3.19	39.0	36.7	1.38	557	1030	2.00	19.0	9770
OREAS 24b		38.3	4.31	20.5	0.15	4.0	0.078	2.76	42.6	53.3	1.51	430	3.84	0.81	14.7	61.2
OREAS 24b		37.1	4.32	19.45	0.11	3.9	0.075	2.78	41.7	53.0	1.52	435	3.74	0.80	14.6	61.1
OREAS 24b		37.8	4.51	19.05	0.11	3.6	0.073	2.90	40.1	59.4	1.60	451	3.49	0.84	14.1	59.2
Target Range - Lower Bound		35.1	3.94	18.05	<0.05	3.4	0.063	2.52	37.7	48.4	1.39	391	3.46	0.70	13.0	53.8
Upper Bound		40.9	4.84	22.2	0.26	4.4	0.091	3.10	47.1	59.6	1.72	489	4.34	0.88	16.2	66.2
OREAS 601		1020	2.54	22.1	0.10	4.9	1.795	2.21	32.3	22.2	0.40	493	4.42	1.51	13.6	26.9
OREAS 601		974	2.39	20.4	0.13	4.4	1.740	2.07	30.9	20.6	0.36	472	3.67	1.41	13.3	24.9



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
STANDARDS																
AMIS0354																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		970	2070	170.5	<0.002	0.36	1.74	19.4	<1	3.1	298	0.81	0.05	18.25	0.643	1.21
Target Range - Lower Bound		880	1845	153.0	<0.002	0.33	1.40	17.0	<1	2.7	258	0.68	<0.05	16.55	0.591	1.00
Upper Bound		1100	2250	187.0	0.006	0.43	2.01	21.0	3	3.9	316	0.97	0.16	20.3	0.733	1.40
GPP-14																
GPP-14																
GPP-14																
GPP-14																
GPP-14																
Target Range - Lower Bound																
Upper Bound																
JK-17																
JK-17																
JK-17																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1040	1110	214	0.007	0.30	4.65	13.3	1	4.0	315	1.59	<0.05	22.8	0.490	1.06
Target Range - Lower Bound		930	971	173.5	0.005	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.89
Upper Bound		1160	1185	212	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.14	21.9	0.553	1.25
OGGeo08		820	7160	193.5	1.420	2.69	26.9	10.2	10	14.3	246	1.41	0.16	18.35	0.378	1.75
OGGeo08		800	7300	190.0	1.430	2.78	29.2	9.4	10	14.2	245	1.35	0.28	20.2	0.374	1.69
Target Range - Lower Bound		760	6520	164.5	1.285	2.51	22.8	9.2	8	12.5	224	1.19	0.09	16.90	0.353	1.43
Upper Bound		950	7970	201	1.575	3.09	31.0	11.4	14	15.7	274	1.57	0.31	20.7	0.443	1.98
OREAS 24b		670	23.3	165.0	<0.002	0.19	0.97	15.2	<1	4.2	122.0	1.22	<0.05	16.75	0.429	0.92
OREAS 24b		660	23.0	157.5	<0.002	0.19	0.90	15.5	<1	3.9	122.5	1.15	<0.05	16.40	0.426	0.82
OREAS 24b		700	20.5	157.5	<0.002	0.20	0.90	15.2	1	4.0	123.0	1.04	<0.05	15.50	0.441	0.76
Target Range - Lower Bound		610	20.3	147.5	<0.002	0.17	0.76	13.7	<1	3.6	111.5	0.99	<0.05	14.75	0.387	0.71
Upper Bound		770	25.9	180.5	0.006	0.23	1.15	16.9	3	4.9	136.5	1.33	0.10	18.05	0.484	1.01
OREAS 601		480	346	103.5	<0.002	1.08	33.5	5.2	13	4.5	237	1.12	16.30	11.35	0.183	1.35
OREAS 601		440	332	93.8	<0.002	1.03	30.7	4.8	13	4.2	226	0.99	15.35	10.65	0.175	1.14



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS							
AMIS0354							
AMIS0354							
Target Range - Lower Bound							
Upper Bound							
GBM908-10		2.2	141	3.4	38.5	1040	140.0
Target Range - Lower Bound		2.0	123	2.9	35.2	939	117.5
Upper Bound		2.6	153	4.1	43.2	1150	160.5
GPP-14							
GPP-14							
GPP-14							
GPP-14							
GPP-14							
Target Range - Lower Bound							
Upper Bound							
JK-17							
JK-17							
JK-17							
Target Range - Lower Bound							
Upper Bound							
LEA-16							
LEA-16							
Target Range - Lower Bound							
Upper Bound							
MRGeo08		5.8	110	4.7	28.8	794	107.5
Target Range - Lower Bound		4.9	97	4.1	23.8	722	92.2
Upper Bound		6.2	121	5.8	29.3	886	126.0
OGGeo08		5.3	84	4.5	23.4	6780	93.3
OGGeo08		5.3	84	4.2	24.9	6600	97.0
Target Range - Lower Bound		4.5	77	3.9	21.1	6500	78.6
Upper Bound		5.8	97	5.4	26.0	7950	107.5
OREAS 24b		3.1	103	4.1	19.3	104	130.0
OREAS 24b		2.8	105	3.7	20.5	102	131.5
OREAS 24b		2.7	109	3.0	18.7	107	131.0
Target Range - Lower Bound		2.7	96	3.0	18.3	93	113.5
Upper Bound		3.5	120	4.3	22.5	118	154.5
OREAS 601		4.2	26	6.1	12.1	1380	168.0
OREAS 601		3.8	25	5.4	11.7	1280	162.5



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
STANDARDS																
Target Range - Lower Bound					44.3	5.66	276	740	1.81	18.80	1.17	7.05	56.7	4.5	37	6.00
Upper Bound					54.1	6.94	338	1020	2.33	23.0	1.45	8.67	69.3	5.8	47	7.44
PK03		4.91	4.30	5.88												
PK03		5.08	4.30	6.04												
PK03		5.09	4.36	6.00												
Target Range - Lower Bound		4.73	4.03	5.67												
Upper Bound		5.34	4.55	6.39												
BLANKS																
BLANK					0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	0.1	2	<0.05
BLANK					<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05
BLANK					0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05
Target Range - Lower Bound					<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05
Upper Bound					0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10
BLANK		<0.001	<0.005	<0.001												
BLANK		<0.001	<0.005	<0.001												
BLANK		<0.001	<0.005	<0.001												
BLANK		<0.001	<0.005	0.003												
BLANK		<0.001	<0.005	<0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												
DUPLICATES																
YHD010					0.02	0.08	6.2	10	<0.05	<0.01	1.39	<0.02	0.41	66.0	1340	0.07
DUP					0.06	0.08	7.0	10	<0.05	0.01	1.45	<0.02	0.41	66.6	1380	0.07
Target Range - Lower Bound					0.03	0.07	6.1	<10	<0.05	<0.01	1.34	<0.02	0.38	62.9	1290	<0.05
Upper Bound					0.05	0.09	7.1	20	0.10	0.02	1.50	0.04	0.44	69.7	1430	0.10
YHD030		0.001	0.005	0.004	0.01	0.38	2.8	<10	<0.05	<0.01	0.39	<0.02	0.27	264	1730	0.13
DUP					0.02	0.38	2.6	<10	<0.05	<0.01	0.39	<0.02	0.28	259	1940	0.13
Target Range - Lower Bound					<0.01	0.35	2.4	<10	<0.05	<0.01	0.36	<0.02	0.25	248	1740	0.07
Upper Bound					0.02	0.41	3.0	20	0.10	0.02	0.42	0.04	0.30	275	1930	0.19



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**QC CERTIFICATE OF ANALYSIS BU18229879**

Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
Sample Description															
STANDARDS															
Target Range - Lower Bound	939	2.22	18.30	<0.05	4.0	1.550	1.88	27.3	18.3	0.34	427	3.43	1.30	11.2	21.7
Upper Bound	1080	2.74	22.5	0.27	5.1	1.910	2.32	34.5	22.8	0.44	533	4.31	1.61	14.0	26.9
PK03															
PK03															
PK03															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK	<0.2	0.02	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.7
BLANK	0.6	<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.05	<0.01	<0.1	0.4
BLANK	0.3	<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.4
Target Range - Lower Bound	<0.2	<0.01	<0.05	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2
Upper Bound	0.4	0.02	0.10	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
YHD010	1.0	5.79	0.24	<0.05	<0.1	<0.005	<0.01	<0.5	4.3	23.0	317	0.08	<0.01	0.1	2440
DUP	1.2	5.76	0.23	<0.05	<0.1	<0.005	<0.01	<0.5	4.1	23.2	323	0.13	<0.01	0.1	2420
Target Range - Lower Bound	0.9	5.48	0.17	<0.05	<0.1	<0.005	<0.01	<0.5	3.8	21.9	299	<0.05	<0.01	<0.1	2310
Upper Bound	1.3	6.07	0.30	0.10	0.2	0.010	0.02	1.0	4.6	24.3	341	0.16	0.02	0.2	2550
YHD030	3.4	6.44	0.89	<0.05	<0.1	<0.005	<0.01	<0.5	2.4	23.3	325	0.11	<0.01	0.2	2300
DUP	2.6	6.30	0.83	<0.05	<0.1	<0.005	<0.01	<0.5	2.4	23.0	327	0.11	<0.01	0.2	2260
Target Range - Lower Bound	2.7	6.04	0.77	<0.05	<0.1	<0.005	<0.01	<0.5	2.1	22.0	305	<0.05	<0.01	<0.1	2170
Upper Bound	3.3	6.70	0.95	0.10	0.2	0.010	0.02	1.0	2.7	24.3	347	0.17	0.02	0.3	2390



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
STANDARDS																
Target Range - Lower Bound		410	296	87.2	<0.002	0.95	25.8	4.3	9	3.5	207	0.89	14.35	9.80	0.157	1.01
Upper Bound		530	362	107.0	0.004	1.19	35.0	5.4	15	4.8	253	1.19	17.65	12.00	0.203	1.41
PK03																
PK03																
PK03																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<10	<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
BLANK		<10	<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
BLANK		<10	<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
Target Range - Lower Bound		<10	<0.5	<0.1	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02
Upper Bound		20	1.0	0.2	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
YHD010		20	1.7	<0.1	<0.002	0.07	9.76	3.1	<1	<0.2	84.3	<0.05	<0.05	0.01	<0.005	<0.02
DUP		10	2.2	0.1	<0.002	0.07	10.70	3.0	<1	<0.2	84.2	<0.05	<0.05	0.01	<0.005	<0.02
Target Range - Lower Bound		<10	1.4	<0.1	<0.002	0.06	9.41	2.8	<1	<0.2	79.8	<0.05	<0.05	<0.01	<0.005	<0.02
Upper Bound		20	2.5	0.2	0.004	0.08	11.05	3.3	2	0.4	88.7	0.10	0.10	0.02	0.010	0.04
YHD030		10	0.9	<0.1	<0.002	0.16	1.45	7.3	<1	<0.2	19.3	<0.05	<0.05	0.02	0.008	<0.02
DUP		20	0.9	<0.1	<0.002	0.16	1.37	7.1	<1	<0.2	18.6	<0.05	<0.05	0.01	0.009	<0.02
Target Range - Lower Bound		<10	<0.5	<0.1	<0.002	0.14	1.25	6.7	<1	<0.2	17.8	<0.05	<0.05	<0.01	<0.005	<0.02
Upper Bound		20	1.0	0.2	0.004	0.18	1.57	7.7	2	0.4	20.1	0.10	0.10	0.02	0.010	0.04





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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS							
Target Range - Lower Bound		3.5	22	4.8	10.0	1195	131.5
Upper Bound		4.5	29	6.8	12.4	1465	179.0
PK03							
PK03							
PK03							
Target Range - Lower Bound							
Upper Bound							
BLANKS							
BLANK		<0.1	<1	<0.1	<0.1	<2	<0.5
BLANK		<0.1	<1	<0.1	<0.1	<2	<0.5
BLANK		<0.1	<1	<0.1	<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<1	<0.1	<0.1	<2	<0.5
Upper Bound		0.2	2	0.2	0.2	4	1.0
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
DUPLICATES							
YHD010		<0.1	7	0.2	0.2	27	<0.5
DUP		<0.1	7	0.2	0.2	28	<0.5
Target Range - Lower Bound		<0.1	6	<0.1	<0.1	24	<0.5
Upper Bound		0.2	8	0.3	0.3	31	1.0
YHD030		<0.1	29	0.2	0.8	39	1.3
DUP		<0.1	29	0.2	0.8	39	0.9
Target Range - Lower Bound		<0.1	27	<0.1	0.7	35	<0.5
Upper Bound		0.2	31	0.3	0.9	43	1.7



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
		0.001	0.005	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
DUPLICATES																
YHD044					0.02	7.51	0.4	220	0.19	0.01	8.17	0.21	5.97	45.5	316	0.57
DUP					0.02	7.35	0.4	220	0.17	0.01	8.09	0.21	5.96	44.5	320	0.55
Target Range - Lower Bound					<0.01	7.05	<0.2	190	0.12	<0.01	7.71	0.18	5.66	42.7	301	0.48
Upper Bound					0.03	7.81	0.6	250	0.24	0.02	8.55	0.24	6.27	47.4	335	0.64
YHD064					0.09	0.29	2.5	<10	<0.05	<0.01	1.38	<0.02	0.17	93.5	1300	0.94
DUP					0.10	0.30	2.8	<10	<0.05	<0.01	1.41	<0.02	0.17	94.1	1380	0.92
Target Range - Lower Bound					0.08	0.27	2.3	<10	<0.05	<0.01	1.32	<0.02	0.15	89.0	1270	0.83
Upper Bound					0.11	0.32	3.0	20	0.10	0.02	1.47	0.04	0.19	98.6	1410	1.03
YHD078		0.002	<0.005	<0.001	0.13	3.81	6.3	330	0.69	0.18	14.35	0.13	40.6	18.9	70	7.15
DUP					0.24	4.14	13.1	360	0.65	0.48	15.60	0.15	41.4	18.5	72	7.20
Target Range - Lower Bound					0.17	3.77	9.0	310	0.59	0.30	14.20	0.11	38.9	17.7	66	6.77
Upper Bound					0.20	4.18	10.4	380	0.75	0.36	15.75	0.17	43.1	19.7	76	7.58
ORIGINAL		0.011	0.028	0.048												
DUP		0.010	0.028	0.048												
Target Range - Lower Bound		0.009	0.022	0.045												
Upper Bound		0.012	0.034	0.051												
ORIGINAL		0.011	<0.005	<0.001												
DUP		0.019	<0.005	<0.001												
Target Range - Lower Bound		0.013	<0.005	<0.001												
Upper Bound		0.017	0.010	0.002												
ORIGINAL		0.002	<0.005	<0.001												
DUP		0.002	<0.005	<0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.003	0.010	0.002												
ORIGINAL		0.009	0.009	0.012												
DUP		0.010	0.007	0.011												
Target Range - Lower Bound		0.008	<0.005	0.010												
Upper Bound		0.011	0.010	0.013												
ORIGINAL		0.022	<0.005	0.004												
DUP		0.017	0.005	0.004												
Target Range - Lower Bound		0.018	<0.005	0.003												
Upper Bound		0.021	0.010	0.005												



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
DUPLICATES																
YHD044		61.4	6.89	13.10	0.09	0.8	0.053	0.25	2.4	27.2	5.85	1660	0.26	1.26	2.8	161.0
DUP		59.9	6.64	12.95	0.07	0.7	0.053	0.25	2.4	26.8	5.71	1600	0.21	1.23	2.7	158.5
Target Range - Lower Bound		58.3	6.42	12.30	<0.05	0.6	0.045	0.23	1.8	25.5	5.48	1545	0.17	1.17	2.5	151.5
Upper Bound		63.0	7.11	13.75	0.10	0.9	0.061	0.27	3.0	28.6	6.08	1715	0.30	1.32	3.0	168.0
YHD064		8.8	6.39	0.68	<0.05	<0.1	<0.005	<0.01	<0.5	14.3	20.9	554	0.15	<0.01	0.1	2170
DUP		9.0	6.58	0.67	<0.05	<0.1	0.005	<0.01	<0.5	14.3	21.3	564	0.14	<0.01	0.1	2260
Target Range - Lower Bound		8.4	6.15	0.59	<0.05	<0.1	<0.005	<0.01	<0.5	13.4	20.0	526	0.09	<0.01	<0.1	2100
Upper Bound		9.4	6.82	0.76	0.10	0.2	0.010	0.02	1.0	15.2	22.2	592	0.20	0.02	0.2	2330
YHD078		47.5	4.53	10.60	0.07	1.7	0.056	0.97	18.2	18.6	1.27	463	0.82	1.49	12.5	45.2
DUP		80.7	4.95	10.40	0.08	1.7	0.072	1.03	18.7	17.7	1.34	482	0.89	1.61	12.5	43.4
Target Range - Lower Bound		61.7	4.49	9.93	<0.05	1.5	0.056	0.94	17.0	17.0	1.23	444	0.76	1.46	11.8	41.9
Upper Bound		66.5	4.99	11.10	0.10	1.9	0.072	1.06	19.9	19.3	1.38	501	0.95	1.64	13.2	46.7
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
DUPLICATES																
YHD044		220	2.5	8.2	<0.002	0.01	0.51	38.3	<1	0.3	315	0.17	<0.05	0.27	0.390	0.04
DUP		200	2.9	8.0	<0.002	<0.01	0.48	37.0	<1	0.3	308	0.16	<0.05	0.27	0.383	0.05
Target Range - Lower Bound		190	2.1	7.6	<0.002	<0.01	0.41	35.7	<1	<0.2	296	0.11	<0.05	0.25	0.362	<0.02
Upper Bound		230	3.3	8.6	0.004	0.02	0.58	39.6	2	0.4	327	0.22	0.10	0.29	0.411	0.07
YHD064		10	0.8	0.1	<0.002	0.22	3.63	5.5	<1	<0.2	16.5	<0.05	<0.05	0.01	<0.005	0.04
DUP		20	0.8	0.1	<0.002	0.24	4.03	5.4	<1	<0.2	16.1	<0.05	<0.05	0.01	0.005	0.04
Target Range - Lower Bound		<10	<0.5	<0.1	<0.002	0.21	3.49	5.1	<1	<0.2	15.3	<0.05	<0.05	<0.01	<0.005	<0.02
Upper Bound		20	1.0	0.2	0.004	0.25	4.17	5.8	2	0.4	17.3	0.10	0.10	0.02	0.010	0.06
YHD078		710	14.2	53.1	0.002	2.10	1.76	13.2	1	1.5	476	0.81	<0.05	4.22	0.558	0.45
DUP		740	17.2	54.3	0.002	2.30	2.66	13.3	1	1.6	501	0.83	0.09	4.18	0.588	0.47
Target Range - Lower Bound		680	14.4	50.9	<0.002	2.08	1.99	12.5	<1	1.3	464	0.73	<0.05	3.98	0.539	0.41
Upper Bound		770	17.0	56.5	0.004	2.32	2.43	14.0	2	1.8	513	0.91	0.10	4.42	0.607	0.51
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
DUPLICATES							
YHD044		0.3	227	0.2	19.5	138	17.3
DUP		0.3	224	0.2	19.3	132	16.7
Target Range - Lower Bound		0.2	213	<0.1	18.3	126	15.2
Upper Bound		0.4	238	0.3	20.5	144	18.8
YHD064		<0.1	20	0.2	0.5	31	0.7
DUP		<0.1	21	0.2	0.5	30	0.6
Target Range - Lower Bound		<0.1	18	<0.1	0.4	27	<0.5
Upper Bound		0.2	23	0.3	0.6	34	1.0
YHD078		1.7	89	0.5	16.1	64	83.0
DUP		1.7	95	0.6	17.2	81	86.0
Target Range - Lower Bound		1.5	86	0.4	15.7	67	77.7
Upper Bound		1.9	98	0.7	17.6	78	91.3
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							



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## QC CERTIFICATE OF ANALYSIS BU18229879

Sample Description	Method Analyte Units LOD	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
DUPLICATES																
ORIGINAL		0.011	<0.005	<0.001												
DUP		0.010	<0.005	0.001												
Target Range - Lower Bound		0.009	<0.005	<0.001												
Upper Bound		0.012	0.010	0.002												
ORIGINAL		<0.001	<0.005	<0.001												
DUP		<0.001	<0.005	<0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												
ORIGINAL		0.001	<0.005	<0.001												
DUP		<0.001	<0.005	<0.001												
Target Range - Lower Bound		<0.001	<0.005	<0.001												
Upper Bound		0.002	0.010	0.002												
ORIGINAL		0.233	<0.005	<0.001												
DUP		0.257	<0.005	<0.001												
Target Range - Lower Bound		0.232	<0.005	<0.001												
Upper Bound		0.258	0.010	0.002												



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32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 (7) 3243 7222 Fax: +61 (7) 3243 7218  
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Project: Henrietta

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**QC CERTIFICATE OF ANALYSIS BU18229879**

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



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Account: ACCELE

**QC CERTIFICATE OF ANALYSIS BU18229879**

Sample Description	Method Analyte Units LOD	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																





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Project: Henrietta

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**QC CERTIFICATE OF ANALYSIS BU18229879**

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



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Stafford  
Brisbane QLD 4053  
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**QC CERTIFICATE OF ANALYSIS BU18229879**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method:

REE's may not be totally soluble in this method.  
ME-MS61

**ACCREDITATION COMMENTS**

Applies to Method:

NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia  
ME-MS61 PGM-ICP23

Applies to Method:

Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.  
BAG-01 CRU-21 LEV-01 LOG-22  
PUL-23 PUL-QC SPL-21 WEI-21