



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

## QC CERTIFICATE AD17129407

Project: MH19

P.O. No.: 338170

This report is for 81 Percussion samples submitted to our lab in Adelaide, SA,  
Australia on 27-JUN-2017.

The following have access to data associated with this certificate:

PAUL BURTON  
CATH WETHERBY

KIM GREY

GAVIN OTTO

To: TODD RIVER METALS  
ATTN: CATH WETHERBY  
LEVEL 1  
282 ROKEBY ROAD  
SUBIACO WA 6008

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 \*\*\*\*\*

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## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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## QC CERTIFICATE OF ANALYSIS AD17129407

Sample Description	Method Analyte Units LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
STANDARDS																
AMIS0282																
AMIS0282																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
GBM306-12																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		3.0	7.27	59	1140	1.4	<2	3.85	1.7	28	136	3720	5.60	20	2.18	50
GBM908-10		2.8	7.34	58	1150	1.5	<2	3.93	1.6	28	134	3760	5.65	20	2.19	50
Target Range - Lower Bound		1.9	6.40	44	980	<0.5	<2	3.36	0.6	22	125	3370	4.98	<10	1.87	20
Upper Bound		4.2	7.84	70	1220	2.5	5	4.12	2.8	30	155	3890	6.10	40	2.31	70
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.2	7.57	32	1090	3.2	<2	2.60	2.1	21	85	621	3.84	20	3.15	30
MRGeo08		4.3	7.78	33	1100	3.2	<2	2.64	2.0	22	85	630	3.88	20	3.18	40
Target Range - Lower Bound		3.2	6.64	21	980	2.2	<2	2.35	1.1	17	81	586	3.55	<10	2.79	<10
Upper Bound		5.7	8.14	45	1210	4.5	5	2.90	3.4	23	102	676	4.37	40	3.43	60
OGGeo08		19.9	6.83	121	640	2.9	14	2.19	18.9	99	79	8550	5.31	10	2.93	30
OGGeo08		19.5	6.81	114	520	2.8	15	2.10	18.3	95	76	8420	5.22	20	2.92	30
Target Range - Lower Bound		17.7	6.07	102	750	1.8	6	1.98	16.2	86	78	7800	4.81	<10	2.59	<10
Upper Bound		22.7	7.44	136	930	4.1	15	2.44	21.0	108	98	8980	5.91	40	3.19	60
OREAS 134a																
Target Range - Lower Bound																
Upper Bound																
OREAS 601		48.7	6.26	316	460	2.0	23	1.32	8.1	6	41	987	2.38	20	2.08	30
OREAS 601		48.5	6.29	312	490	2.0	19	1.27	7.4	6	46	1000	2.37	20	2.09	30
Target Range - Lower Bound		43.8	5.66	271	780	1.0	16	1.17	6.5	3	37	938	2.22	<10	1.88	<10
Upper Bound		54.6	6.94	343	980	3.2	26	1.45	9.3	7	47	1080	2.74	40	2.32	50
OREAS-45e																



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## QC CERTIFICATE OF ANALYSIS AD17129407

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %	ME-ICP61 Tl ppm	ME-ICP61 U ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
STANDARDS																
AMIS0282																
AMIS0282																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
GBM306-12																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		1.85	815	70	2.16	2390	1020	2080	0.38	<5	18	303	20	0.66	<10	<10
GBM908-10		1.88	830	63	2.18	2290	1040	2110	0.38	<5	18	308	20	0.67	<10	<10
Target Range - Lower Bound		1.61	715	57	1.93	2030	880	1860	0.33	<5	14	260	<20	0.59	<10	<10
Upper Bound		1.99	885	72	2.38	2480	1100	2280	0.43	12	20	320	60	0.74	20	20
GLG912-5																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1.31	551	13	1.91	670	1040	1050	0.30	<5	12	308	20	0.48	<10	<10
MRGeo08		1.34	550	13	1.94	679	1050	1050	0.30	<5	12	314	20	0.49	<10	<10
Target Range - Lower Bound		1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44	<10	<10
Upper Bound		1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56	20	30
OGGeo08		1.25	507	896	1.80	8560	860	7170	2.80	27	10	252	20	0.39	<10	<10
OGGeo08		1.20	498	873	1.79	8790	850	7180	2.73	28	10	253	20	0.38	<10	<10
Target Range - Lower Bound		1.11	447	841	1.62	8000	760	6510	2.51	16	8	223	<20	0.35	<10	<10
Upper Bound		1.38	557	1030	2.00	9770	950	7970	3.09	38	13	275	60	0.45	20	30
OREAS 134a																
Target Range - Lower Bound																
Upper Bound																
OREAS 601		0.36	476	4	1.41	26	470	328	1.03	32	5	228	<20	0.18	<10	<10
OREAS 601		0.35	478	3	1.40	30	460	337	1.04	32	5	231	<20	0.18	<10	<10
Target Range - Lower Bound		0.34	427	2	1.30	21	410	294	0.95	19	3	206	<20	0.15	<10	<10
Upper Bound		0.44	533	6	1.61	28	530	364	1.19	42	7	254	50	0.21	20	20
OREAS-45e																



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Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001
STANDARDS									
AMIS0282									0.185
AMIS0282									0.184
AMIS0282									0.190
Target Range - Lower Bound									0.178
Upper Bound									0.202
GBM306-12					4	1.480	2.68	2.10	
Target Range - Lower Bound					3	1.430	2.59	1.975	
Upper Bound					7	1.535	2.77	2.12	
GBM908-10		141	<10	1085					
GBM908-10		143	<10	1125					
Target Range - Lower Bound		123	<10	939					
Upper Bound		153	20	1155					
GLG912-5									0.222
Target Range - Lower Bound									0.210
Upper Bound									0.239
LEA-16									0.501
LEA-16									0.483
Target Range - Lower Bound									0.470
Upper Bound									0.532
MP-1b					49	3.06	2.10	17.05	
Target Range - Lower Bound					44	2.96	2.02	16.10	
Upper Bound					50	3.18	2.17	17.25	
MRGeo08		108	<10	786					
MRGeo08		109	<10	795					
Target Range - Lower Bound		97	<10	722					
Upper Bound		121	30	886					
OGGeo08		86	<10	7120					
OGGeo08		84	<10	6920					
Target Range - Lower Bound		77	<10	6500					
Upper Bound		97	20	7950					
OREAS 134a					201	0.131	12.80	17.30	
Target Range - Lower Bound					193		12.35		
Upper Bound					209		13.25		
OREAS 601		25	<10	1345					
OREAS 601		25	<10	1350					
Target Range - Lower Bound		22	<10	1195					
Upper Bound		29	30	1465					
OREAS-45e									0.050



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STANDARDS																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.01	<5	<10	<0.5	2	<0.01	<0.5	1	<1	<1	<0.01	<10	<0.01	<10
BLANK		<0.5	0.01	<5	<10	<0.5	4	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	2	<0.01	<0.5	<1	<1	1	<0.01	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Target Range - Lower Bound		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01	<10
Upper Bound		1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02	20
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
MH22370		<0.5	7.12	<5	520	3.2	3	0.37	<0.5	9	42	9	2.91	20	3.11	30
DUP		<0.5	7.32	<5	540	3.3	<2	0.39	<0.5	8	43	8	3.00	20	3.21	30
Target Range - Lower Bound		<0.5	6.85	<5	490	2.6	<2	0.35	<0.5	7	39	7	2.80	<10	2.99	20
Upper Bound		1.0	7.59	10	570	3.9	4	0.41	1.0	10	46	10	3.11	30	3.33	40
22421		<0.5	3.49	<5	240	1.6	3	0.47	0.5	5	23	59	1.52	10	1.01	20
DUP		<0.5	3.40	<5	230	1.6	4	0.47	<0.5	4	23	61	1.49	10	0.99	20
Target Range - Lower Bound		<0.5	3.26	<5	210	1.0	<2	0.44	<0.5	3	21	57	1.42	<10	0.94	<10
Upper Bound		1.0	3.63	10	260	2.2	4	0.50	1.0	6	25	63	1.59	20	1.06	30



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		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
STANDARDS																
BLANKS																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	1	<20	<0.01	<10	<10
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
BLANK		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	1	<20	<0.01	<10	<10
Target Range - Lower Bound		<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10	<10
Upper Bound		0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20	20
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
MH22370		0.70	425	10	0.70	21	460	9	<0.01	<5	9	54	20	0.24	<10	<10
DUP		0.72	437	13	0.73	23	470	8	<0.01	<5	9	56	20	0.25	<10	<10
Target Range - Lower Bound		0.66	404	10	0.67	20	430	6	<0.01	<5	8	51	<20	0.22	<10	<10
Upper Bound		0.76	458	13	0.76	24	500	11	0.02	10	10	59	40	0.27	20	20
22421		0.31	260	2	0.92	12	270	58	0.01	<5	3	57	<20	0.11	<10	<10
DUP		0.30	250	2	0.91	13	280	55	0.01	<5	3	58	<20	0.11	<10	<10
Target Range - Lower Bound		0.28	237	<1	0.86	11	250	52	<0.01	<5	2	54	<20	0.09	<10	<10
Upper Bound		0.33	273	3	0.97	14	300	61	0.02	10	4	61	40	0.13	20	20



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Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001
<b>STANDARDS</b>									
OREAS-45e									0.051
OREAS-45e									0.052
Target Range - Lower Bound									0.049
Upper Bound									0.057
<b>BLANKS</b>									
BLANK									0.001
BLANK									<0.001
BLANK									0.001
Target Range - Lower Bound									<0.001
Upper Bound									0.002
BLANK		<1	<10	<2					
BLANK		<1	<10	<2					
BLANK		<1	<10	2					
BLANK		<1	<10	3					
Target Range - Lower Bound		<1	<10	<2					
Upper Bound		2	20	4					
BLANK					<1	<0.001	<0.001	0.001	
Target Range - Lower Bound					<1	<0.001	<0.001	<0.001	
Upper Bound					2	0.002	0.002	0.002	
<b>DUPLICATES</b>									
MH22370		43	<10	68					
DUP		45	<10	69					
Target Range - Lower Bound		41	<10	63					
Upper Bound		47	20	74					
22421		15	<10	119					
DUP		15	<10	119					
Target Range - Lower Bound		13	<10	111					
Upper Bound		17	20	127					



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Sample Description	Method Analyte Units LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
DUPLICATES																
22486		<0.5	7.73	6	750	3.3	3	0.22	<0.5	11	43	12	3.04	20	3.78	40
DUP		<0.5	7.77	10	750	3.3	<2	0.21	<0.5	12	46	9	3.07	20	3.81	40
Target Range - Lower Bound		<0.5	7.35	<5	700	2.6	<2	0.19	<0.5	10	41	9	2.89	<10	3.60	30
Upper Bound		1.0	8.15	10	800	4.0	4	0.24	1.0	13	48	12	3.22	30	3.99	50
22502																
DUP																
Target Range - Lower Bound																
Upper Bound																
22526																
DUP																
Target Range - Lower Bound																
Upper Bound																
22566		<0.5	5.28	6	500	2.0	<2	0.20	<0.5	7	35	24	2.22	10	1.98	30
DUP		<0.5	5.27	<5	500	2.0	<2	0.20	<0.5	6	37	24	2.22	10	1.98	30
Target Range - Lower Bound		<0.5	5.00	<5	470	1.4	<2	0.18	<0.5	5	33	22	2.10	<10	1.87	20
Upper Bound		1.0	5.55	10	540	2.6	4	0.22	1.0	8	39	26	2.34	20	2.09	40
22571																
DUP																
Target Range - Lower Bound																
Upper Bound																
20032		<0.5	9.72	<5	870	3.7	<2	0.21	<0.5	12	57	18	3.74	30	4.48	40
DUP		<0.5	9.97	<5	880	3.7	<2	0.21	<0.5	12	58	10	3.79	30	4.50	40
Target Range - Lower Bound		<0.5	9.34	<5	820	3.0	<2	0.19	<0.5	10	54	13	3.57	20	4.26	30
Upper Bound		1.0	10.35	10	930	4.4	4	0.23	1.0	14	61	15	3.96	40	4.72	50
20179																
DUP																
Target Range - Lower Bound																
Upper Bound																
20232																
DUP																
Target Range - Lower Bound																
Upper Bound																





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QC CERTIFICATE OF ANALYSIS AD17129407

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U
		%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
DUPLICATES																
22486		0.76	515	1	0.64	25	490	19	<0.01	<5	10	40	20	0.27	<10	<10
DUP		0.76	519	1	0.64	22	470	21	<0.01	<5	10	41	20	0.27	<10	<10
Target Range - Lower Bound		0.71	486	<1	0.60	21	450	17	<0.01	<5	9	37	<20	0.25	<10	<10
Upper Bound		0.81	548	2	0.68	26	510	23	0.02	10	12	44	40	0.29	20	20
22502																
DUP																
Target Range - Lower Bound																
Upper Bound																
22526																
DUP																
Target Range - Lower Bound																
Upper Bound																
22566		0.48	369	2	1.07	17	380	71	0.01	<5	6	61	<20	0.19	<10	<10
DUP		0.48	390	3	1.07	17	380	68	0.01	<5	6	60	<20	0.20	<10	<10
Target Range - Lower Bound		0.45	356	<1	1.01	15	350	64	<0.01	<5	5	56	<20	0.18	<10	<10
Upper Bound		0.51	403	4	1.13	19	410	75	0.02	10	7	65	40	0.21	20	20
22571																
DUP																
Target Range - Lower Bound																
Upper Bound																
20032		0.94	512	1	0.53	30	540	65	0.01	<5	12	32	20	0.29	<10	<10
DUP		0.96	517	<1	0.53	29	560	60	<0.01	<5	12	31	20	0.29	<10	<10
Target Range - Lower Bound		0.89	484	<1	0.49	27	510	57	<0.01	<5	10	29	<20	0.27	<10	<10
Upper Bound		1.01	545	2	0.57	32	590	68	0.02	10	14	34	40	0.31	20	20
20179																
DUP																
Target Range - Lower Bound																
Upper Bound																
20232																
DUP																
Target Range - Lower Bound																
Upper Bound																



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## QC CERTIFICATE OF ANALYSIS AD17129407

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001
DUPLICATES									
22486		49	<10	81					
DUP		49	<10	83					
Target Range - Lower Bound		46	<10	76					
Upper Bound		52	20	88					
22502									<0.001
DUP									0.001
Target Range - Lower Bound									<0.001
Upper Bound									0.002
22526						1.420	2.12	4.41	
DUP						1.425	2.14	4.42	
Target Range - Lower Bound						1.385	2.08	4.30	
Upper Bound						1.460	2.18	4.53	
22566		29	10	110					
DUP		29	<10	107					
Target Range - Lower Bound		27	<10	101					
Upper Bound		31	20	116					
22571									0.010
DUP									0.010
Target Range - Lower Bound									0.009
Upper Bound									0.012
20032		62	<10	91					
DUP		61	<10	87					
Target Range - Lower Bound		57	<10	83					
Upper Bound		66	20	95					
20179							1.160	2.06	
DUP							1.165	2.10	
Target Range - Lower Bound							1.130	2.03	
Upper Bound							1.195	2.13	
20232									0.001
DUP									0.001
Target Range - Lower Bound									<0.001
Upper Bound									0.002



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**QC CERTIFICATE OF ANALYSIS AD17129407**

Sample Description	Method Analyte Units LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
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																



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**QC CERTIFICATE OF ANALYSIS AD17129407**

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Mn ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 S %	ME-ICP61 Sb ppm	ME-ICP61 Sc ppm	ME-ICP61 Sr ppm	ME-ICP61 Th ppm	ME-ICP61 Ti %	ME-ICP61 Tl ppm	ME-ICP61 U ppm
		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
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																



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**QC CERTIFICATE OF ANALYSIS AD17129407**

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	Au-ICP22 Au ppm 0.001
DUPLICATES									
ORIGINAL									0.007
DUP									0.012
Target Range - Lower Bound									0.008
Upper Bound									0.011
ORIGINAL									0.003
DUP									0.003
Target Range - Lower Bound									0.002
Upper Bound									0.004
ORIGINAL									0.001
DUP									0.003
Target Range - Lower Bound									<0.001
Upper Bound									0.003



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<b>QC CERTIFICATE OF ANALYSIS</b>	<b>AD17129407</b>
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	CERTIFICATE COMMENTS			
	ANALYTICAL COMMENTS			
	Applies to Method:	NSS is non-sufficient sample. ALL METHODS		
	ACCREDITATION COMMENTS			
	Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist. Au-ICP22ME-ICP61ME-OG62		
	LABORATORY ADDRESSES			
	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia			
	Applies to Method:	Ag-OG62 ME-OG62	Au-ICP22 Pb-OG62	Cu-OG62 Zn-OG62 ME-ICP61
	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.			
	Applies to Method:	BAG-01 PUL-23	LEV-01 PUL-QC	LOG-22 SPL-21 LOG-24 WEI-21