



Australian Laboratory Services Pty. Ltd.

32 Shand Street
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Plus Appendix Pages
Finalized Date: 10-AUG-2018
This copy reported on 2-OCT-2018
Account: LOTTAH

QC CERTIFICATE BU18188227

Project: Moina Gold

This report is for 7 Crushed Rock samples submitted to our lab in Burnie, TAS, Australia on 3-AUG-2018.

The following have access to data associated with this certificate:

LOTTAH LABWORK
GEOFF SOMMERS

GRANT MACDONALD

ANDREW RAE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
BAG-01	Bulk Master for Storage
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	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:

Ricky Gelston, Laboratory Manager, Burnie



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Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 As ppm 5	ME-ICP61 Cu ppm 1	ME-ICP61 Pb ppm 2	ME-ICP61 Zn ppm 2	ME-ICP61 Ba ppm 10	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Zn-OG62 Zn % 0.001
STANDARDS											
GBM398-1									4	1.490	2.03
Target Range - Lower Bound									3	1.430	1.955
Upper Bound									7	1.535	2.10
GBM915-10		13.9	472	861	253	906	250				
Target Range - Lower Bound		12.5	442	843	233	842	200				
Upper Bound		16.3	552	971	289	1035	290				
OGGeo08		20.3	120	8260	7320	7190	680				
Target Range - Lower Bound		17.7	102	7800	6510	6500	700				
Upper Bound		22.7	136	8980	7970	7950	980				
OREAS 216	6.89										
Target Range - Lower Bound	6.25										
Upper Bound	7.07										
OREAS 228	8.83										
Target Range - Lower Bound	8.20										
Upper Bound	9.26										
OREAS 97									19	6.17	0.062
Target Range - Lower Bound									18	6.09	0.060
Upper Bound									21	6.53	0.067
OREAS-133b									101	0.033	11.25
Target Range - Lower Bound									99	0.030	10.95
Upper Bound									109	0.034	11.75
BLANKS											
BLANK	<0.01										
Target Range - Lower Bound	<0.01										
Upper Bound	0.02										
BLANK		<0.5	<5	<1	<2	<2	<10				
Target Range - Lower Bound		<0.5	<5	<1	<2	<2	<10				
Upper Bound		1.0	10	2	4	4	20				
BLANK									<1	<0.001	<0.001
Target Range - Lower Bound									<1	<0.001	<0.001
Upper Bound									2	0.002	0.002



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DUPLICATES											
ORIGINAL			5.4	4980	114	>10000	105	410			
DUP			5.5	4930	115	>10000	107	410			
Target Range - Lower Bound			4.7	4700	109	9500	99	370			
Upper Bound			6.2	5210	120	>10000	113	450			
MTCH2			13.0	375	295	3130	7680	380			
DUP			12.9	378	294	3000	7480	310			
Target Range - Lower Bound			11.8	353	283	2910	7200	310			
Upper Bound			14.1	400	306	3220	7960	380			
MTCH5											1.740
DUP									22	0.063	1.760
Target Range - Lower Bound									20	0.060	1.705
Upper Bound									24	0.066	1.795
ORIGINAL		0.52									
DUP		0.52									
Target Range - Lower Bound		0.48									
Upper Bound		0.56									



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	CERTIFICATE COMMENTS
	<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. Technical Signatory is Samantha Profke,ICPAES Supervising Chemist</p>
Applies to Method:	ME-ICP61 ME-OG62 Zn-OG62
	<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>
Applies to Method:	ME-ICP61 ME-OG62 Zn-OG62
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.
	Au-AA25 BAG-01 CRU-21 LEV-01 PUL-31b PUL-QC WEI-21