



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

Page: 1  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 4-SEP-2017  
Account: TODRIV

## QC CERTIFICATE AD17178512

P.O. No.: TRR17-007

This report is for 100 Percussion samples submitted to our lab in Adelaide, SA,  
Australia on 24-AUG-2017.

The following have access to data associated with this certificate:

PAUL BURTON  
CATH WETHERBY

KIM GREY

GAVIN OTTO

## 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
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES

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 \*\*\*\*\*

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Page: 2 - A  
Total # Pages: 4 (A - C)  
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## QC CERTIFICATE OF ANALYSIS AD17178512

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																
Target Range - Lower Bound																
Upper Bound																
AMIS0354																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		2.7	7.14	60	1100	1.4	3	3.85	1.7	26	139	3580	5.55	20	2.12	50
GBM908-10		2.9	7.44	52	1150	1.5	3	3.98	1.9	27	145	3750	5.79	20	2.20	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																
MRGeo08		4.2	7.81	33	1100	3.3	<2	2.70	2.0	20	96	621	4.01	20	3.17	40
MRGeo08		4.6	7.98	34	1130	3.4	<2	2.77	2.3	20	93	648	4.14	20	3.27	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		19.4	6.82	118	810	2.9	11	2.21	18.8	92	86	8280	5.30	20	2.89	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 601		47.8	6.24	306	1180	2.0	24	1.33	7.4	5	42	976	2.43	20	2.05	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																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																



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Page: 2 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 4-SEP-2017  
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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																
Target Range - Lower Bound																
Upper Bound																
AMIS0354																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		1.87	794	57	2.16	2300	1010	2060	0.37	<5	17	297	20	0.67	<10	<10
GBM908-10		1.94	832	61	2.26	2420	1060	2160	0.39	<5	18	309	20	0.69	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																
MRGeo08		1.39	559	15	1.99	717	1050	1100	0.31	8	12	312	30	0.51	<10	<10
MRGeo08		1.43	570	15	2.06	740	1100	1130	0.32	<5	12	323	30	0.52	<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		1.28	499	910	1.81	8870	840	7190	2.79	26	10	250	20	0.40	<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 601		0.38	473	4	1.43	21	470	336	1.07	33	5	228	<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																
OREAS-45e																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																



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Page: 2 - C  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 4-SEP-2017  
Account: TODRIV

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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	Au-ICP22 Au ppm 0.001
STANDARDS					
AMIS0282					0.199
Target Range - Lower Bound					0.178
Upper Bound					0.202
AMIS0354					0.724
AMIS0354					0.722
Target Range - Lower Bound					0.666
Upper Bound					0.754
GBM908-10		140	<10	1050	
GBM908-10		146	<10	1110	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.232
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.506
LEA-16					0.501
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		110	<10	792	
MRGeo08		111	<10	820	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		85	<10	6890	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		25	<10	1320	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.053
OREAS-45e					0.053
OREAS-45e					0.053
Target Range - Lower Bound					0.049
Upper Bound					0.057



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Page: 3 - A  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
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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
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	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
DUPLICATES																
W17633		<0.5	1.25	<5	30	<0.5	<2	10.25	0.7	79	1100	202	7.40	<10	0.10	<10
DUP		<0.5	1.31	<5	30	<0.5	<2	10.65	0.6	81	1120	208	7.76	<10	0.11	<10
Target Range - Lower Bound		<0.5	1.21	<5	20	<0.5	<2	9.92	<0.5	75	1055	197	7.19	<10	0.09	<10
Upper Bound		1.0	1.35	10	40	1.0	4	11.00	1.0	85	1165	213	7.97	20	0.12	20
W17641																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17653		<0.5	1.16	<5	20	<0.5	<2	10.90	0.6	79	813	273	7.79	<10	0.06	<10
DUP		<0.5	1.16	<5	10	<0.5	<2	11.00	0.5	82	811	272	7.82	<10	0.06	<10
Target Range - Lower Bound		<0.5	1.09	<5	<10	<0.5	<2	10.40	<0.5	75	770	262	7.40	<10	0.05	<10
Upper Bound		1.0	1.23	10	20	1.0	4	11.50	1.0	86	854	283	8.21	20	0.07	20
W17668		<0.5	1.75	<5	30	<0.5	2	10.25	0.6	76	720	230	7.97	<10	0.14	<10
DUP		<0.5	1.78	<5	30	<0.5	<2	10.40	0.7	78	728	233	8.10	10	0.14	<10
Target Range - Lower Bound		<0.5	1.67	<5	20	<0.5	<2	9.80	<0.5	72	687	222	7.62	<10	0.12	<10
Upper Bound		1.0	1.86	10	40	1.0	4	10.85	1.0	82	761	241	8.45	20	0.16	20
W17690		<0.5	1.85	<5	30	<0.5	2	10.00	0.5	79	886	202	7.90	10	0.13	<10
DUP		<0.5	1.97	<5	30	<0.5	<2	10.55	0.6	84	887	215	8.42	<10	0.13	<10
Target Range - Lower Bound		<0.5	1.80	<5	20	<0.5	<2	9.75	<0.5	76	841	200	7.74	<10	0.11	<10
Upper Bound		1.0	2.02	10	40	1.0	4	10.80	1.0	87	932	217	8.58	20	0.15	20



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Page: 3 - B  
Total # Pages: 4 (A - C)  
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		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
BLANKS																
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
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
DUPLICATES																
W17633		11.50	1460	3	0.21	265	50	5	0.27	<5	59	45	<20	0.18	<10	<10
DUP		11.85	1510	2	0.22	278	70	3	0.28	<5	62	47	<20	0.18	<10	<10
Target Range - Lower Bound		11.10	1405	<1	0.19	257	50	<2	0.25	<5	56	43	<20	0.16	<10	<10
Upper Bound		12.25	1565	4	0.24	286	70	6	0.30	10	65	49	40	0.20	20	20
W17641																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17653		11.10	1580	2	0.17	230	40	5	0.44	<5	72	37	<20	0.18	<10	<10
DUP		11.05	1570	2	0.17	228	40	8	0.44	<5	72	37	<20	0.18	<10	<10
Target Range - Lower Bound		10.50	1490	<1	0.15	217	30	4	0.41	<5	67	34	<20	0.16	<10	<10
Upper Bound		11.65	1660	3	0.19	241	50	9	0.47	10	77	40	40	0.20	20	20
W17668		10.50	1660	2	0.26	191	70	2	0.50	<5	72	57	<20	0.25	<10	<10
DUP		10.65	1690	2	0.26	191	80	5	0.51	<5	74	57	<20	0.25	<10	<10
Target Range - Lower Bound		10.05	1585	<1	0.24	180	60	<2	0.47	<5	68	53	<20	0.23	<10	<10
Upper Bound		11.10	1765	3	0.28	202	90	4	0.54	10	78	61	40	0.27	20	20
W17690		10.10	1410	2	0.27	217	70	5	0.62	<5	65	48	<20	0.24	<10	<10
DUP		10.65	1480	3	0.29	231	70	5	0.67	<5	68	50	<20	0.25	<10	<10
Target Range - Lower Bound		9.85	1370	<1	0.26	212	60	3	0.60	<5	62	46	<20	0.22	<10	<10
Upper Bound		10.90	1520	4	0.30	236	80	7	0.69	10	71	52	40	0.27	20	20



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Page: 3 - C  
Total # Pages: 4 (A - C)  
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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	Au-ICP22 Au ppm 0.001
BLANKS					
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	
Target Range - Lower Bound		<1	<10	<2	
Upper Bound		2	20	4	
DUPLICATES					
W17633		177	<10	79	
DUP		182	<10	81	
Target Range - Lower Bound		170	<10	74	
Upper Bound		189	20	86	
W17641					0.016
DUP					0.015
Target Range - Lower Bound					0.014
Upper Bound					0.017
W17653		195	<10	65	
DUP		195	<10	69	
Target Range - Lower Bound		184	<10	62	
Upper Bound		206	20	72	
W17668		231	<10	71	
DUP		242	<10	72	
Target Range - Lower Bound		224	<10	66	
Upper Bound		249	20	77	
W17690		219	<10	75	
DUP		230	<10	79	
Target Range - Lower Bound		212	<10	71	
Upper Bound		237	20	83	



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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																
W17694 DUP																
Target Range - Lower Bound																
Upper Bound																
W17705 DUP		<0.5	2.03	<5	30	<0.5	<2	9.48	0.6	85	1080	174	8.53	10	0.17	<10
Target Range - Lower Bound		<0.5	2.17	<5	30	<0.5	5	10.05	<0.5	91	1140	181	9.02	10	0.18	10
Upper Bound		<0.5	1.99	<5	20	<0.5	<2	9.27	<0.5	83	1055	170	8.33	<10	0.16	<10
		1.0	2.22	10	40	1.0	4	10.25	1.0	93	1165	185	9.22	20	0.19	20
W17723 DUP		<0.5	2.25	<5	70	<0.5	<2	8.91	0.5	85	1160	162	9.51	10	0.30	10
Target Range - Lower Bound		<0.5	2.37	<5	70	<0.5	<2	9.31	0.6	91	1200	176	10.00	10	0.31	10
Upper Bound		<0.5	2.18	<5	60	<0.5	<2	8.64	<0.5	83	1120	162	9.26	<10	0.28	<10
		1.0	2.44	10	80	1.0	4	9.58	1.0	93	1240	176	10.25	20	0.33	20
W17732 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																
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No: 825, Corporate Site No: 23001.

Page: 4 - B  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 4-SEP-2017  
Account: TODRIV

## QC CERTIFICATE OF ANALYSIS AD17178512

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
W17694 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
W17705 DUP Target Range - Lower Bound Upper Bound		10.50 11.05 10.25 11.30	1460 1540 1420 1580	2 2 <1 3	0.32 0.33 0.30 0.35	252 273 248 277	80 60 60 80	3 6 <2 7	0.64 0.67 0.61 0.70	<5 <5 <5 10	57 61 55 63	59 63 57 65	<20 <20 <20 40	0.27 0.29 0.26 0.30	<10 <10 <10 20	<10 <10 <10 20
W17723 DUP Target Range - Lower Bound Upper Bound		11.10 11.70 10.80 12.00	1580 1650 1530 1700	3 2 <1 4	0.36 0.37 0.34 0.39	283 299 275 307	130 150 120 160	6 <2 <2 6	0.23 0.24 0.21 0.26	<5 <5 <5 10	53 56 51 58	73 77 70 80	<20 <20 <20 40	0.26 0.27 0.24 0.29	<10 <10 <10 20	<10 <10 <10 20
W17732 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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Page: 4 - C  
Total # Pages: 4 (A - C)  
Plus Appendix Pages  
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QC CERTIFICATE OF ANALYSIS AD17178512

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001
DUPLICATES					
W17694					0.002
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17705		194	<10	68	
DUP		207	<10	72	
Target Range - Lower Bound		189	<10	65	
Upper Bound		212	20	76	
W17723		194	<10	111	
DUP		203	<10	117	
Target Range - Lower Bound		188	<10	106	
Upper Bound		209	20	122	
W17732					<0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					0.001
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					<0.001
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					0.005
DUP					0.004
Target Range - Lower Bound					0.003
Upper Bound					0.006



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 4-SEP-2017  
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**QC CERTIFICATE OF ANALYSIS AD17178512**

	CERTIFICATE COMMENTS
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
	<b>ACCREDITATION COMMENTS</b>
Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist. Au-ICP22 ME-ICP61
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	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 Au-ICP22 ME-ICP61
Applies to Method:	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. BAG-01 LEV-01 LOG-22 LOG-24 PUL-23 PUL-QC SPL-21 WEI-21