



Australian Laboratory Services Pty. Ltd.

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Plus Appendix Pages  
Finalized Date: 13-SEP-2017  
Account: TODRIV

## QC CERTIFICATE AD17182173

P.O. No.: TRR17-009

This report is for 87 Soil samples submitted to our lab in Adelaide, SA, Australia on  
31-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
LOG-24	Pulp Login - Rcd w/o Barcode
PUL-QC	Pulverizing QC Test
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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## QC CERTIFICATE OF ANALYSIS AD17182173

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		4.3	7.17	53	1130	1.4	2	3.79	2.5	29	142	3770	5.48	20	2.11	50
GBM908-10		2.9	7.45	57	1170	1.4	5	3.96	2.4	27	146	3790	5.69	20	2.21	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		4.3	7.65	30	1120	3.2	2	2.64	2.7	21	88	616	3.93	20	3.05	30
MRGeo08		4.3	7.82	37	1130	3.2	<2	2.64	2.5	21	90	631	3.95	20	3.11	30
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		20.0	6.96	123	610	2.9	16	2.18	20.1	98	80	8460	5.27	20	2.94	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		48.3	6.15	321	500	1.9	20	1.27	8.0	5	43	961	2.35	20	1.99	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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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		1.83	811	62	2.12	2220	1030	2250	0.40	<5	18	294	20	0.66	<10	<10
GBM908-10		1.92	845	55	2.22	2340	1060	2170	0.38	<5	18	303	20	0.68	<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		1.34	558	13	1.95	690	1070	1110	0.30	5	12	306	20	0.50	<10	<10
MRGeo08		1.36	565	14	1.97	697	1100	1100	0.31	7	12	310	20	0.50	<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	508	904	1.80	8690	860	7290	2.78	27	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		0.35	466	3	1.38	23	460	336	1.02	34	5	220	<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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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					0.191
Target Range - Lower Bound					0.178
Upper Bound					0.202
AMIS0354					0.746
AMIS0354					0.717
Target Range - Lower Bound					0.666
Upper Bound					0.754
GBM908-10		140	<10	1140	
GBM908-10		145	<10	1120	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.221
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.521
LEA-16					0.504
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		110	<10	805	
MRGeo08		108	<10	810	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		86	<10	7260	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		25	<10	1330	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.055
OREAS-45e					0.056
OREAS-45e					0.053
Target Range - Lower Bound					0.049
Upper Bound					0.057



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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																
W18012		<0.5	7.48	<5	220	7.2	3	0.07	0.5	96	30	121	11.30	20	1.55	10
DUP		<0.5	7.29	5	230	7.1	3	0.07	0.6	95	30	120	11.05	20	1.54	10
Target Range - Lower Bound		<0.5	7.01	<5	200	6.3	<2	0.06	<0.5	90	28	115	10.60	<10	1.46	<10
Upper Bound		1.0	7.76	10	250	8.0	4	0.08	1.0	101	33	126	11.75	30	1.63	20
W18109		<0.5	8.29	<5	780	4.4	<2	0.51	<0.5	13	78	8	3.69	20	2.84	20
DUP		<0.5	8.17	<5	760	4.4	<2	0.49	<0.5	13	78	7	3.63	20	2.78	10
Target Range - Lower Bound		<0.5	7.81	<5	720	3.7	<2	0.47	<0.5	11	73	6	3.47	<10	2.66	<10
Upper Bound		1.0	8.65	10	820	5.1	4	0.54	1.0	15	83	9	3.85	30	2.96	20
W18130		<0.5	8.09	<5	730	3.2	2	0.40	0.5	15	75	57	4.45	30	3.22	60
DUP		<0.5	8.14	<5	720	3.3	<2	0.40	<0.5	14	75	57	4.47	20	3.22	60
Target Range - Lower Bound		<0.5	7.70	<5	680	2.6	<2	0.37	<0.5	13	70	54	4.23	<10	3.05	50
Upper Bound		1.0	8.53	10	770	3.9	4	0.43	1.0	16	80	60	4.69	40	3.39	70
W18204		<0.5	8.39	<5	660	3.4	<2	0.69	0.5	19	98	58	4.82	20	2.87	50
DUP		<0.5	8.25	<5	650	3.4	2	0.66	<0.5	18	96	57	4.69	20	2.88	50
Target Range - Lower Bound		<0.5	7.89	<5	610	2.7	<2	0.63	<0.5	17	91	54	4.51	<10	2.72	40
Upper Bound		1.0	8.75	10	700	4.1	4	0.72	1.0	20	103	61	5.00	30	3.03	60
W18231		<0.5	7.23	<5	830	1.6	<2	0.56	<0.5	9	38	21	2.37	20	4.00	30
DUP		<0.5	7.13	5	770	1.6	<2	0.55	<0.5	9	40	20	2.35	20	3.84	20
Target Range - Lower Bound		<0.5	6.81	<5	750	1.0	<2	0.52	<0.5	8	36	19	2.23	<10	3.71	<10
Upper Bound		1.0	7.55	10	850	2.2	4	0.59	1.0	10	42	22	2.49	30	4.13	40



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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
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																
W18012		1.03	1060	1	0.32	100	590	9	0.03	<5	39	20	<20	1.29	<10	<10
DUP		1.01	1100	2	0.32	98	590	11	0.03	<5	39	20	<20	1.29	10	<10
Target Range - Lower Bound		0.96	1020	<1	0.29	93	550	8	0.02	<5	36	18	<20	1.22	<10	<10
Upper Bound		1.08	1140	2	0.35	105	630	13	0.04	10	42	22	40	1.36	20	20
W18109		1.72	496	2	1.31	38	260	10	0.02	<5	8	78	<20	0.25	<10	<10
DUP		1.67	477	2	1.33	38	270	14	0.02	<5	8	78	<20	0.23	<10	<10
Target Range - Lower Bound		1.60	457	<1	1.24	35	240	9	<0.01	<5	7	73	<20	0.22	<10	<10
Upper Bound		1.79	516	3	1.40	41	290	15	0.03	10	9	83	40	0.26	20	20
W18130		1.16	301	1	1.11	22	280	17	0.04	<5	4	72	30	0.38	<10	<10
DUP		1.15	308	1	1.11	23	290	18	0.04	<5	4	72	30	0.38	<10	<10
Target Range - Lower Bound		1.09	284	<1	1.04	20	260	15	0.03	<5	3	67	<20	0.35	<10	<10
Upper Bound		1.22	325	2	1.18	25	310	20	0.05	10	5	77	40	0.41	20	20
W18204		1.54	508	1	1.02	38	340	22	0.06	<5	11	80	30	0.42	<10	<10
DUP		1.48	487	1	0.99	35	320	22	0.06	<5	11	78	30	0.42	<10	<10
Target Range - Lower Bound		1.42	468	<1	0.94	34	300	19	0.05	<5	9	74	<20	0.39	<10	<10
Upper Bound		1.60	527	2	1.07	39	360	25	0.07	10	13	84	40	0.45	20	20
W18231		0.58	262	3	1.69	15	320	30	0.03	<5	5	160	<20	0.22	<10	<10
DUP		0.58	261	2	1.65	14	320	24	0.03	<5	5	156	<20	0.22	<10	<10
Target Range - Lower Bound		0.54	243	<1	1.58	13	290	24	0.02	<5	4	149	<20	0.20	<10	<10
Upper Bound		0.62	280	4	1.76	16	350	30	0.04	10	6	167	40	0.24	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	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					
W18012		438	<10	256	
DUP		433	<10	251	
Target Range - Lower Bound		413	<10	239	
Upper Bound		458	20	268	
W18109		60	<10	75	<0.001
DUP		59	<10	73	<0.001
Target Range - Lower Bound		56	<10	68	<0.001
Upper Bound		63	20	80	0.002
W18130		73	<10	88	
DUP		73	<10	88	
Target Range - Lower Bound		68	<10	82	
Upper Bound		78	20	94	
W18204		91	<10	115	0.001
DUP		88	<10	111	0.001
Target Range - Lower Bound		84	<10	105	<0.001
Upper Bound		95	20	121	0.002
W18231		38	<10	58	
DUP		38	<10	58	
Target Range - Lower Bound		35	<10	53	
Upper Bound		41	20	63	



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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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**QC CERTIFICATE OF ANALYSIS AD17182173**

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
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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No: 825, Corporate Site No: 23001.

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Total # Pages: 4 (A - C)  
Plus Appendix Pages  
Finalized Date: 13-SEP-2017  
Account: TODRIV

**QC CERTIFICATE OF ANALYSIS AD17182173**

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					
ORIGINAL					0.004
DUP					0.004
Target Range - Lower Bound					0.003
Upper Bound					0.005
ORIGINAL					0.003
DUP					0.002
Target Range - Lower Bound					<0.001
Upper Bound					0.004
ORIGINAL					<0.001
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					0.003
DUP					0.002
Target Range - Lower Bound					<0.001
Upper Bound					0.004



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**QC CERTIFICATE OF ANALYSIS AD17182173**

**CERTIFICATE COMMENTS**

**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-ICP22 ME-ICP61

**LABORATORY ADDRESSES**

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  
PUL-23 PUL-QC SPL-21

LOG-24  
WEI-21