



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

## QC CERTIFICATE AD17164544

P.O. No.: TRR17-006

This report is for 105 Soil samples submitted to our lab in Adelaide, SA, Australia on  
11-AUG-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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Plus Appendix Pages

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## 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

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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## QC CERTIFICATE OF ANALYSIS AD17164544

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																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		3.1	7.36	62	1210	1.5	<2	3.95	2.0	29	149	3860	5.93	20	2.26	60
GBM908-10		2.9	7.18	53	1180	1.5	<2	3.87	1.6	29	141	3810	5.76	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																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.3	7.43	30	1110	3.3	<2	2.56	2.3	20	93	625	3.95	20	3.14	40
MRGeo08		4.4	7.63	34	1150	3.3	<2	2.63	2.1	22	92	647	4.05	20	3.25	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		20.6	6.91	116	270	3.0	11	2.22	20.3	103	88	8690	5.57	20	2.99	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		52.7	6.61	339	220	2.2	20	1.39	8.4	6	49	1070	2.64	20	2.24	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																
Target Range - Lower Bound																
Upper Bound																



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		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																
AMIS0354																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		1.97	858	60	2.31	2480	1080	2200	0.40	<5	19	316	20	0.69	<10	<10
GBM908-10		1.93	843	62	2.25	2370	1040	2150	0.39	<5	18	308	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																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1.35	564	15	1.97	701	1050	1070	0.31	<5	12	307	20	0.48	<10	<10
MRGeo08		1.39	575	15	2.03	724	1070	1110	0.32	6	12	318	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		1.32	522	937	1.88	9070	860	7470	2.86	27	10	257	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		0.41	514	5	1.54	27	500	361	1.13	32	5	243	<20	0.19	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																
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					0.192
Target Range - Lower Bound					0.178
Upper Bound					0.202
AMIS0354					0.694
AMIS0354					0.708
AMIS0354					0.719
Target Range - Lower Bound					0.666
Upper Bound					0.754
GBM908-10		151	<10	1130	
GBM908-10		148	<10	1120	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.218
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.488
LEA-16					0.512
LEA-16					0.478
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		110	<10	807	
MRGeo08		112	<10	822	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		90	10	7200	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		28	10	1440	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.052
OREAS-45e					0.051
Target Range - Lower Bound					0.049
Upper Bound					0.057



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BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	2	1	0.02	<10	<0.01	<10
BLANK		<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	2	<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																
W17010																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17058																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17521		<0.5	3.31	<5	80	1.2	<2	0.26	<0.5	93	2490	536	27.1	10	0.08	10
DUP		<0.5	3.41	<5	80	1.2	<2	0.27	<0.5	96	2530	557	27.9	10	0.08	10
Target Range - Lower Bound		<0.5	3.18	<5	70	0.6	<2	0.24	<0.5	89	2380	526	26.1	<10	0.07	<10
Upper Bound		1.0	3.54	10	90	1.8	4	0.29	1.0	100	2640	567	28.9	20	0.09	20
W17541		<0.5	1.43	<5	100	5.3	<2	7.49	0.9	99	1660	303	11.20	<10	0.10	10
DUP		<0.5	1.42	<5	100	5.3	<2	7.45	0.8	100	1630	303	11.10	<10	0.10	10
Target Range - Lower Bound		<0.5	1.34	<5	90	4.5	<2	7.09	<0.5	94	1560	291	10.60	<10	0.09	<10
Upper Bound		1.0	1.51	10	120	6.1	4	7.85	1.0	105	1730	315	11.70	20	0.12	20
W17556		<0.5	1.48	<5	90	4.1	3	8.12	0.6	135	1440	299	11.15	<10	0.09	<10
DUP		<0.5	1.52	<5	90	4.2	<2	8.33	0.7	137	1470	308	11.45	<10	0.09	<10
Target Range - Lower Bound		<0.5	1.42	<5	80	3.4	<2	7.80	<0.5	128	1380	292	10.75	<10	0.08	<10
Upper Bound		1.0	1.59	10	100	4.9	4	8.65	1.0	144	1530	315	11.90	20	0.10	20



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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																
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																
W17010																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17058																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17521		0.96	479	<1	0.20	569	60	9	0.02	<5	148	75	<20	0.38	<10	<10
DUP		1.00	486	<1	0.20	588	70	12	0.02	<5	152	77	<20	0.40	10	<10
Target Range - Lower Bound		0.92	453	<1	0.18	549	50	8	<0.01	<5	142	71	<20	0.36	<10	<10
Upper Bound		1.04	512	2	0.22	608	80	13	0.03	10	159	81	40	0.42	20	20
W17541		7.28	1750	<1	0.37	515	30	4	<0.01	<5	78	116	<20	0.21	<10	<10
DUP		7.25	1770	1	0.37	513	30	4	0.01	<5	77	115	<20	0.21	<10	<10
Target Range - Lower Bound		6.89	1665	<1	0.34	487	20	<2	<0.01	<5	73	109	<20	0.19	<10	<10
Upper Bound		7.64	1855	2	0.40	541	40	6	0.02	10	82	122	40	0.23	20	20
W17556		8.11	2570	<1	0.40	408	60	<2	0.02	<5	80	103	<20	0.22	<10	<10
DUP		8.32	2640	1	0.41	416	60	5	0.03	<5	82	106	<20	0.23	<10	<10
Target Range - Lower Bound		7.79	2470	<1	0.37	390	50	<2	<0.01	<5	76	98	<20	0.20	<10	<10
Upper Bound		8.64	2740	2	0.44	434	70	4	0.04	10	86	111	40	0.25	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
<b>BLANKS</b>					
BLANK					<0.001
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	
<b>DUPLICATES</b>					
W17010					0.002
DUP					0.002
Target Range - Lower Bound					<0.001
Upper Bound					0.003
W17058					0.001
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17521		303	<10	215	
DUP		308	<10	221	
Target Range - Lower Bound		289	<10	205	
Upper Bound		322	20	231	
W17541		203	<10	114	<0.001
DUP		200	<10	113	<0.001
Target Range - Lower Bound		190	<10	106	<0.001
Upper Bound		213	20	121	0.002
W17556		198	<10	97	
DUP		204	<10	99	
Target Range - Lower Bound		190	<10	91	
Upper Bound		212	20	105	



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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																
W17578		<0.5	1.07	<5	20	<0.5	<2	9.36	0.6	100	1260	164	9.41	<10	0.07	<10
DUP		<0.5	1.04	<5	20	<0.5	<2	9.22	0.6	100	1270	161	9.15	<10	0.07	<10
Target Range - Lower Bound		<0.5	0.99	<5	<10	<0.5	<2	8.82	<0.5	94	1200	156	8.81	<10	0.06	<10
Upper Bound		1.0	1.12	10	30	1.0	4	9.76	1.0	106	1330	169	9.75	20	0.08	20
W17594		<0.5	1.57	<5	10	<0.5	<2	7.87	0.5	80	625	83	8.29	<10	0.11	<10
DUP		<0.5	1.57	<5	10	<0.5	<2	7.89	0.5	79	619	84	8.26	<10	0.11	10
Target Range - Lower Bound		<0.5	1.48	<5	<10	<0.5	<2	7.48	<0.5	75	590	80	7.85	<10	0.09	<10
Upper Bound		1.0	1.66	10	20	1.0	4	8.28	1.0	84	654	87	8.70	20	0.13	20
W17583		<0.5	1.14	<5	30	<0.5	<2	9.04	0.7	99	1310	166	9.60	<10	0.09	<10
DUP		<0.5	1.13	<5	20	<0.5	<2	9.04	0.6	99	1280	165	9.59	<10	0.08	<10
Target Range - Lower Bound		<0.5	1.07	<5	<10	<0.5	<2	8.58	<0.5	93	1230	159	9.11	<10	0.07	<10
Upper Bound		1.0	1.20	10	40	1.0	4	9.50	1.0	105	1360	172	10.10	20	0.10	20
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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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														
W17578		13.40	1740	3	0.16	347	40	3	0.17	<5	61	37	<20	0.17	<10	<10
DUP		13.10	1690	3	0.16	337	30	5	0.17	5	60	36	<20	0.16	<10	<10
Target Range - Lower Bound		12.60	1625	2	0.14	324	20	<2	0.15	<5	56	34	<20	0.15	<10	<10
Upper Bound		13.90	1805	4	0.18	360	50	6	0.19	10	65	39	40	0.18	20	20
W17594		11.85	1840	1	0.21	119	50	<2	0.10	6	68	28	<20	0.19	<10	<10
DUP		11.85	1840	2	0.21	118	70	4	0.10	<5	68	26	<20	0.19	<10	<10
Target Range - Lower Bound		11.25	1745	<1	0.19	112	50	<2	0.09	<5	64	25	<20	0.17	<10	<10
Upper Bound		12.45	1935	2	0.23	125	70	4	0.12	10	72	29	40	0.21	20	20
W17583		13.20	1780	3	0.17	328	50	4	0.17	<5	61	37	<20	0.18	<10	<10
DUP		13.20	1800	3	0.17	327	50	<2	0.17	<5	61	37	<20	0.18	<10	<10
Target Range - Lower Bound		12.55	1695	2	0.15	310	40	<2	0.15	<5	57	34	<20	0.16	<10	<10
Upper Bound		13.85	1885	4	0.19	345	60	4	0.19	10	65	40	40	0.20	20	20
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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Plus Appendix Pages  
Finalized Date: 24-AUG-2017  
Account: TODRIV

## QC CERTIFICATE OF ANALYSIS AD17164544

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					
W17578		198	<10	87	0.001
DUP		193	<10	86	0.001
Target Range - Lower Bound		185	<10	80	<0.001
Upper Bound		206	20	93	0.002
W17594		224	<10	89	
DUP		225	<10	89	
Target Range - Lower Bound		212	<10	83	
Upper Bound		237	20	95	
W17583		215	<10	88	
DUP		213	<10	89	
Target Range - Lower Bound		202	<10	82	
Upper Bound		226	20	95	
ORIGINAL					0.019
DUP					0.021
Target Range - Lower Bound					0.018
Upper Bound					0.022
ORIGINAL					0.006
DUP					0.005
Target Range - Lower Bound					0.004
Upper Bound					0.007
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



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Page: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 24-AUG-2017

Account: TODRIV

**QC CERTIFICATE OF ANALYSIS AD17164544**

**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