



Australian Laboratory Services Pty. Ltd.

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Finalized Date: 23-AUG-2017
Account: TODRIV

QC CERTIFICATE AD17164467

P.O. No.: TRR17-004

This report is for 85 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

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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QC CERTIFICATE OF ANALYSIS AD17164467

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																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		2.9	7.25	60	1140	1.5	<2	3.87	2.1	28	137	3760	5.66	20	2.21	50
GBM908-10		3.0	7.27	63	1150	1.4	<2	3.92	1.5	27	141	3820	5.92	20	2.23	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																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.2	7.71	31	1100	3.3	<2	2.64	2.1	19	84	619	3.96	20	3.03	40
MRGeo08		4.7	8.02	35	1160	3.4	<2	2.85	2.0	21	91	674	4.31	20	3.37	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		19.1	6.88	118	840	2.8	11	2.15	18.7	94	84	8100	5.31	20	2.79	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		48.1	6.40	313	1270	2.0	23	1.31	7.7	6	38	986	2.47	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																
OREAS-45e																
Target Range - Lower Bound																
Upper Bound																



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		Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	U
		%	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
STANDARDS															
AMIS0282															
Target Range - Lower Bound															
Upper Bound															
AMIS0354															
Target Range - Lower Bound															
Upper Bound															
GBM908-10		1.89	825	58	2.23	2220	1000	2150	0.39	<5	18	298	20	0.67	<10
GBM908-10		1.90	812	64	2.27	2370	1020	2140	0.38	6	18	302	20	0.66	<10
Target Range - Lower Bound		1.61	715	57	1.93	2030	880	1860	0.33	<5	14	260	<20	0.59	<10
Upper Bound		1.99	885	72	2.38	2480	1100	2280	0.43	12	20	320	60	0.74	20
GLG912-5															
Target Range - Lower Bound															
Upper Bound															
LEA-16															
Target Range - Lower Bound															
Upper Bound															
MRGeo08		1.36	559	14	1.95	666	1060	1090	0.31	<5	12	303	30	0.49	<10
MRGeo08		1.45	584	16	2.09	748	1110	1145	0.32	<5	12	324	20	0.52	<10
Target Range - Lower Bound		1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44	<10
Upper Bound		1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56	30
OGGeo08		1.26	491	875	1.78	8940	820	7070	2.75	24	9	237	20	0.38	<10
Target Range - Lower Bound		1.11	447	841	1.62	8000	760	6510	2.51	16	8	223	<20	0.35	<10
Upper Bound		1.38	557	1030	2.00	9770	950	7970	3.09	38	13	275	60	0.45	30
OREAS 601		0.37	475	3	1.46	21	470	340	1.08	31	5	229	<20	0.18	<10
Target Range - Lower Bound		0.34	427	2	1.30	21	410	294	0.95	19	3	206	<20	0.15	<10
Upper Bound		0.44	533	6	1.61	28	530	364	1.19	42	7	254	50	0.21	20
OREAS-45e															
OREAS-45e															
Target Range - Lower Bound															
Upper Bound															



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STANDARDS					
AMIS0282					0.189
Target Range - Lower Bound					0.178
Upper Bound					0.202
AMIS0354					0.699
Target Range - Lower Bound					0.666
Upper Bound					0.754
GBM908-10		141	<10	1130	
GBM908-10		140	<10	1080	
Target Range - Lower Bound		123	<10	939	
Upper Bound		153	20	1155	
GLG912-5					0.225
Target Range - Lower Bound					0.210
Upper Bound					0.239
LEA-16					0.512
Target Range - Lower Bound					0.470
Upper Bound					0.532
MRGeo08		108	<10	829	
MRGeo08		112	<10	853	
Target Range - Lower Bound		97	<10	722	
Upper Bound		121	30	886	
OGGeo08		84	<10	6830	
Target Range - Lower Bound		77	<10	6500	
Upper Bound		97	20	7950	
OREAS 601		25	<10	1395	
Target Range - Lower Bound		22	<10	1195	
Upper Bound		29	30	1465	
OREAS-45e					0.052
OREAS-45e					0.050
Target Range - Lower Bound					0.049
Upper Bound					0.057



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BLANKS																
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																
W17191																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17365		<0.5	8.65	<5	660	3.3	<2	0.50	<0.5	18	84	30	4.60	20	4.02	20
DUP		<0.5	9.14	<5	670	3.4	<2	0.52	<0.5	19	86	30	4.72	30	4.10	30
Target Range - Lower Bound		<0.5	8.44	<5	620	2.7	<2	0.47	<0.5	17	80	28	4.42	<10	3.85	<10
Upper Bound		1.0	9.35	10	710	4.0	4	0.55	1.0	20	90	32	4.90	40	4.27	40
W17396																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17425		<0.5	5.58	15	30	1.0	<2	1.68	<0.5	26	42	38	2.65	20	3.60	<10
DUP		<0.5	5.73	11	30	1.1	<2	1.72	<0.5	28	43	40	2.75	20	3.67	<10
Target Range - Lower Bound		<0.5	5.36	7	20	<0.5	<2	1.61	<0.5	25	39	37	2.56	<10	3.44	<10
Upper Bound		1.0	5.95	19	40	1.6	4	1.80	1.0	29	46	41	2.85	30	3.83	20
W17450		0.6	4.70	5	10	1.1	<2	0.13	0.7	1	13	186	0.22	10	4.32	<10
DUP		<0.5	4.80	<5	10	1.2	<2	0.12	0.8	1	12	188	0.21	10	4.35	<10
Target Range - Lower Bound		<0.5	4.50	<5	<10	0.6	<2	0.11	<0.5	<1	11	179	0.19	<10	4.11	<10
Upper Bound		1.0	5.00	10	20	1.7	4	0.14	1.0	2	14	195	0.24	20	4.56	20



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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																
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																
W17191																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17365		1.51	409	1	0.98	33	530	29	0.02	<5	15	80	<20	0.33	10	<10
DUP		1.58	414	<1	1.00	35	540	25	0.02	<5	16	84	20	0.34	<10	<10
Target Range - Lower Bound		1.46	386	<1	0.93	31	500	24	<0.01	<5	14	77	<20	0.31	<10	<10
Upper Bound		1.63	437	2	1.05	37	570	30	0.03	10	17	87	40	0.36	20	20
W17396																
DUP																
Target Range - Lower Bound																
Upper Bound																
W17425		0.78	346	9	1.47	28	590	38	0.02	<5	8	71	<20	0.29	<10	<10
DUP		0.80	359	9	1.54	27	620	44	0.02	<5	8	74	<20	0.30	10	<10
Target Range - Lower Bound		0.74	330	8	1.42	25	560	37	<0.01	<5	7	68	<20	0.27	<10	<10
Upper Bound		0.84	375	10	1.59	30	650	45	0.03	10	9	77	40	0.32	20	20
W17450		0.04	45	1	1.17	12	460	26	0.06	<5	<1	19	<20	0.02	10	<10
DUP		0.04	43	<1	1.19	13	480	28	0.07	<5	<1	20	<20	0.02	10	<10
Target Range - Lower Bound		0.03	37	<1	1.11	11	440	24	0.05	<5	<1	18	<20	<0.01	<10	<10
Upper Bound		0.05	51	2	1.25	14	500	30	0.08	10	2	21	40	0.03	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
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					
W17191					0.001
DUP					0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17365		84	<10	171	
DUP		86	<10	176	
Target Range - Lower Bound		80	<10	163	
Upper Bound		90	20	184	
W17396					<0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17425		65	<10	59	
DUP		66	<10	61	
Target Range - Lower Bound		61	<10	55	
Upper Bound		70	20	65	
W17450		3	<10	310	
DUP		2	<10	314	
Target Range - Lower Bound		<1	<10	294	
Upper Bound		4	20	330	



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DUPLICATES																
W17473 DUP																
Target Range - Lower Bound																
Upper Bound																
W17478 DUP		<0.5	6.86	7	380	3.4	2	2.67	0.5	10	52	26	3.67	20	1.88	40
Target Range - Lower Bound		<0.5	6.98	7	390	3.6	3	2.72	0.6	10	55	26	3.74	20	1.89	40
Upper Bound		<0.5	6.56	<5	360	2.8	<2	2.55	<0.5	9	50	24	3.51	<10	1.78	30
W17497 DUP		0.9	8.83	29	590	4.3	<2	0.51	0.9	46	269	38	5.07	30	3.59	20
Target Range - Lower Bound		1.0	9.43	20	620	4.5	<2	0.54	0.9	45	267	40	5.25	30	3.70	30
Upper Bound		<0.5	8.66	18	560	3.7	<2	0.49	<0.5	42	254	37	4.89	20	3.45	<10
W17054 DUP		1.0	9.60	31	650	5.1	4	0.56	1.0	49	282	41	5.43	40	3.84	40
W17059 DUP		<0.5	1.45	<5	20	<0.5	<2	8.48	<0.5	90	517	168	12.05	10	0.08	<10
Target Range - Lower Bound		<0.5	1.40	5	20	<0.5	<2	8.09	<0.5	84	496	160	11.60	10	0.08	<10
Upper Bound		<0.5	1.34	<5	<10	<0.5	<2	7.86	<0.5	82	480	157	11.20	<10	0.07	<10
		1.0	1.51	10	30	1.0	4	8.71	1.0	92	533	171	12.45	20	0.09	20



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		0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
W17473 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
W17478 DUP Target Range - Lower Bound Upper Bound		1.85 1.87 1.76 1.96	669 688 640 717	3 2 <1 4	0.88 0.90 0.84 0.94	22 21 19 24	610 650 590 670	82 86 78 90	0.10 0.11 0.09 0.12	<5 <5 <5 10	9 9 8 10	166 168 158 176	20 20 <20 40	0.28 0.28 0.26 0.30	<10 <10 <10 20	<10 <10 <10 20
W17497 DUP Target Range - Lower Bound Upper Bound		3.53 3.72 3.43 3.82	381 385 359 407	1 <1 <1 2	0.80 0.82 0.76 0.86	75 76 71 80	560 550 520 590	4310 4370 4120 4560	0.23 0.23 0.21 0.25	<5 <5 <5 10	20 21 18 23	54 56 51 59	<20 <20 <20 40	0.37 0.38 0.35 0.40	<10 <10 <10 20	<10 <10 <10 20
W17054 DUP Target Range - Lower Bound Upper Bound																
W17059 DUP Target Range - Lower Bound Upper Bound		11.15 10.65 10.35 11.45	2010 1915 1860 2070	3 3 2 4	0.16 0.15 0.14 0.17	108 105 100 113	40 40 30 50	<2 4 <2 4	0.32 0.31 0.29 0.34	<5 <5 <5 10	81 78 75 84	31 29 28 33	<20 <20 <20 40	0.39 0.38 0.36 0.41	<10 <10 <10 20	<10 <10 <10 20



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Plus Appendix Pages

Finalized Date: 23-AUG-2017

Account: TODRIV

QC CERTIFICATE OF ANALYSIS AD17164467

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					
W17473 DUP					0.001 0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17478 DUP		52 52	10 10	317 317	
Target Range - Lower Bound		48	<10	299	
Upper Bound		56	20	335	
W17497 DUP		127 127	<10 <10	442 444	
Target Range - Lower Bound		120	<10	419	
Upper Bound		134	20	467	
W17054 DUP					0.001 0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
W17059 DUP		489 480	<10 <10	112 107	
Target Range - Lower Bound		459	<10	102	
Upper Bound		510	20	117	



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QC CERTIFICATE OF ANALYSIS AD17164467

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