



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

CERTIFICATE AD17164503

P.O. No.: TRR17-005

This report is for 137 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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Finalized Date: 23-AUG-2017

Account: TODRIV

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample 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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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	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
W17033		2.12	<0.5	1.69	<5	360	<0.5	<2	9.94	<0.5	102	532	257	10.05	<10	0.18
W17034		2.05	<0.5	1.53	<5	140	<0.5	<2	8.97	<0.5	96	455	170	9.30	10	0.23
W17035		1.93	<0.5	1.61	6	70	<0.5	<2	9.34	<0.5	94	431	224	8.75	10	0.21
W17037		2.93	<0.5	1.54	<5	80	<0.5	<2	8.56	<0.5	83	490	176	9.26	10	0.25
W17038		2.16	<0.5	1.66	<5	250	<0.5	<2	8.94	<0.5	83	560	182	9.49	10	0.25
W17039		2.26	<0.5	1.62	<5	1510	<0.5	<2	8.73	<0.5	89	500	233	9.70	10	0.24
W17049		1.86	<0.5	1.49	<5	230	<0.5	<2	7.76	<0.5	87	242	190	10.20	10	0.16
W17050		Not Recvd														
W17051		1.34	<0.5	1.55	<5	210	<0.5	<2	8.94	<0.5	79	199	163	10.35	10	0.15
W17054		2.31	<0.5	1.66	<5	50	<0.5	<2	9.05	<0.5	80	198	142	10.95	10	0.14
W17055		2.10	<0.5	1.58	<5	30	<0.5	<2	8.34	<0.5	83	253	144	11.00	10	0.12
W17056		2.06	<0.5	1.61	<5	30	<0.5	<2	8.52	<0.5	87	237	148	12.20	10	0.11
W17057		2.48	<0.5	1.55	<5	20	<0.5	<2	8.30	<0.5	94	262	147	14.75	10	0.07
W17059		2.39	<0.5	1.45	<5	20	<0.5	<2	8.48	<0.5	90	517	168	12.05	10	0.08
W17060		2.21	<0.5	1.25	<5	10	<0.5	<2	9.19	<0.5	98	1145	132	11.80	<10	0.05
W17061		2.34	<0.5	1.08	<5	10	<0.5	<2	9.22	<0.5	99	1315	123	11.50	10	0.04
W17062		2.68	<0.5	1.38	5	20	<0.5	<2	9.13	<0.5	81	1220	191	9.45	<10	0.08
W17064		2.45	<0.5	1.01	10	10	<0.5	<2	7.72	<0.5	83	1295	152	12.35	<10	0.03
W17065		2.04	<0.5	1.04	<5	10	<0.5	<2	9.67	<0.5	92	1400	157	9.10	<10	0.04
W17066		1.67	<0.5	1.06	<5	10	<0.5	<2	9.74	<0.5	89	1465	114	8.68	<10	0.04
W17074		1.95	<0.5	0.83	18	10	<0.5	<2	7.90	<0.5	90	1340	537	10.40	<10	0.03
W17090		2.74	<0.5	0.99	<5	40	<0.5	<2	9.57	<0.5	102	1215	187	9.37	<10	0.06
W17091		3.35	<0.5	0.94	<5	20	<0.5	<2	9.52	<0.5	98	1230	183	9.32	<10	0.06
W17092		3.15	<0.5	0.93	<5	20	<0.5	<2	8.95	<0.5	95	1205	185	9.33	<10	0.05
W17093		2.21	<0.5	0.97	<5	20	<0.5	<2	9.62	<0.5	95	1230	198	9.25	<10	0.06
W17193		Not Recvd														
W17100		Not Recvd														
W17153		2.07	<0.5	1.40	<5	20	<0.5	<2	9.67	<0.5	92	1150	179	9.09	<10	0.08
W17154		2.78	<0.5	1.76	<5	30	<0.5	<2	9.56	<0.5	88	1065	159	8.80	<10	0.11
W17155		2.68	<0.5	1.25	<5	30	<0.5	<2	9.44	<0.5	85	1070	167	8.23	<10	0.13
W17156		1.24	<0.5	1.24	<5	30	<0.5	<2	9.30	<0.5	75	1095	169	7.99	10	0.11
W17159		2.40	<0.5	1.04	<5	20	<0.5	<2	9.62	<0.5	93	1245	185	8.99	<10	0.07
W17160		1.78	<0.5	0.97	<5	20	<0.5	<2	10.05	<0.5	92	1280	186	9.25	<10	0.06
W17161		2.37	<0.5	0.93	<5	10	<0.5	<2	9.68	<0.5	93	1280	192	9.12	<10	0.04
W17176		2.05	<0.5	0.86	<5	10	<0.5	<2	9.74	<0.5	98	1345	170	9.53	<10	0.03
W17177		1.79	<0.5	0.84	<5	10	<0.5	<2	9.39	<0.5	96	1345	164	9.27	<10	0.03
W17178		2.60	<0.5	0.89	<5	10	<0.5	<2	9.47	<0.5	92	1315	155	9.12	<10	0.03
W17180		1.09	<0.5	0.88	5	10	<0.5	<2	8.71	<0.5	94	1235	340	9.99	<10	0.02
W17181		1.95	<0.5	0.82	<5	10	<0.5	<2	9.59	<0.5	91	1330	154	8.98	<10	0.02
W17182		1.91	<0.5	0.82	<5	10	<0.5	<2	9.78	<0.5	95	1305	211	9.23	<10	0.02



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CERTIFICATE OF ANALYSIS AD17164503

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
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17033		10	9.33	1805	<1	0.28	142	40	<2	0.01	<5	72	75	<20	0.24	<10
W17034		10	10.10	1800	1	0.28	96	40	<2	<0.01	<5	69	48	<20	0.22	<10
W17035		10	10.10	2050	<1	0.33	129	30	2	<0.01	<5	72	47	<20	0.22	<10
W17037		10	10.40	2010	<1	0.32	87	40	3	<0.01	<5	76	47	<20	0.21	<10
W17038		10	10.35	1835	1	0.35	91	60	<2	0.01	<5	79	57	<20	0.22	<10
W17039		10	11.15	1890	1	0.32	107	70	4	0.04	<5	78	69	<20	0.21	<10
W17049		<10	9.92	2120	1	0.26	75	60	<2	0.04	<5	80	61	<20	0.22	<10
W17050																
W17051		10	10.55	2110	1	0.23	56	60	2	0.10	<5	85	71	<20	0.23	<10
W17054		<10	11.15	2170	3	0.20	53	50	<2	0.26	<5	93	41	<20	0.26	10
W17055		<10	11.10	2140	3	0.18	56	60	<2	0.27	5	88	34	<20	0.26	<10
W17056		<10	10.90	2200	4	0.16	55	50	<2	0.28	<5	91	33	<20	0.37	<10
W17057		<10	10.55	2180	3	0.14	54	50	5	0.30	5	90	30	<20	0.61	<10
W17059		<10	11.15	2010	3	0.16	108	40	<2	0.32	<5	81	31	<20	0.39	<10
W17060		<10	12.50	1945	4	0.14	325	30	3	0.19	<5	69	29	<20	0.28	<10
W17061		<10	13.05	1890	3	0.13	385	30	3	0.16	<5	62	26	<20	0.23	<10
W17062		<10	12.90	1735	4	0.18	363	50	2	0.15	<5	61	37	<20	0.21	<10
W17064		<10	13.55	1525	2	0.10	359	50	<2	0.14	<5	53	19	<20	0.17	<10
W17065		<10	13.60	1555	3	0.13	388	20	<2	0.13	<5	57	29	<20	0.18	<10
W17066		<10	14.05	1525	3	0.12	394	40	<2	0.13	<5	58	26	<20	0.18	10
W17074		<10	13.40	1440	2	0.10	390	70	2	0.17	<5	52	19	<20	0.14	10
W17090		<10	13.10	1725	3	0.18	331	50	2	0.18	<5	57	36	<20	0.16	<10
W17091		<10	13.20	1655	5	0.15	338	40	2	0.17	<5	57	31	<20	0.15	<10
W17092		<10	13.10	1715	4	0.14	330	40	<2	0.18	<5	57	31	<20	0.15	<10
W17093		<10	13.50	1645	3	0.14	334	50	<2	0.17	<5	58	30	<20	0.15	<10
W17193																
W17100																
W17153		10	12.80	1640	4	0.15	327	60	<2	0.16	<5	55	30	<20	0.17	<10
W17154		10	12.10	1755	2	0.17	305	110	<2	0.20	<5	54	31	<20	0.19	<10
W17155		10	12.45	1525	2	0.18	328	70	3	0.14	<5	55	35	<20	0.16	<10
W17156		10	12.35	1620	4	0.20	299	90	2	0.13	<5	57	36	<20	0.16	<10
W17159		<10	13.30	1590	4	0.15	334	40	<2	0.18	<5	57	27	<20	0.15	<10
W17160		<10	13.75	1715	3	0.14	337	30	<2	0.17	<5	59	29	<20	0.16	<10
W17161		<10	13.40	1705	3	0.14	338	40	<2	0.22	<5	59	27	<20	0.15	<10
W17176		<10	14.05	1605	2	0.12	377	50	<2	0.17	<5	59	27	<20	0.15	<10
W17177		<10	13.80	1650	3	0.12	358	30	<2	0.17	<5	58	26	<20	0.14	<10
W17178		<10	13.50	1605	3	0.11	345	40	<2	0.17	<5	59	25	<20	0.15	<10
W17180		<10	13.60	1675	2	0.08	316	50	<2	0.33	<5	58	18	<20	0.15	<10
W17181		<10	13.35	1555	2	0.11	323	40	<2	0.19	<5	58	25	<20	0.14	<10
W17182		<10	13.65	1675	4	0.11	321	30	<2	0.19	<5	60	25	<20	0.14	<10



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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um %
W17033		<10	229	<10	86	0.010	
W17034		<10	227	<10	83	0.008	
W17035		<10	232	<10	88	0.003	
W17037		<10	242	<10	86	0.011	
W17038		<10	261	<10	86	0.018	94.0
W17039		<10	244	<10	96	0.007	
W17049		<10	275	<10	119	0.005	
W17050							
W17051		<10	289	<10	102	0.002	
W17054		<10	304	<10	130	0.001	
W17055		<10	339	<10	108	0.001	
W17056		<10	500	<10	131	0.001	
W17057		<10	882	<10	128	0.001	
W17059		<10	489	<10	112	0.002	
W17060		<10	321	<10	108	0.001	
W17061		<10	247	<10	109	0.001	
W17062		<10	214	<10	104	0.002	
W17064		<10	181	<10	87	0.004	
W17065		<10	189	<10	89	0.003	
W17066		<10	192	<10	93	0.004	
W17074		<10	155	<10	185	0.006	
W17090		<10	172	<10	415	0.002	
W17091		<10	168	<10	118	0.001	
W17092		<10	166	<10	113	0.002	
W17093		<10	170	<10	86	0.003	
W17193							
W17100							
W17153		<10	169	<10	81	0.002	
W17154		<10	168	<10	99	0.001	
W17155		<10	153	<10	72	0.001	
W17156		<10	172	<10	77	0.002	
W17159		<10	167	<10	75	0.002	
W17160		<10	174	<10	80	0.002	
W17161		<10	169	<10	88	0.002	
W17176		<10	172	<10	71	0.002	
W17177		<10	174	<10	70	0.003	
W17178		<10	174	<10	62	0.002	
W17180		<10	169	<10	276	0.005	
W17181		<10	170	<10	85	0.002	
W17182		<10	172	<10	82	0.003	



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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	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
W17183		1.53	<0.5	0.83	<5	10	<0.5	<2	9.45	<0.5	98	1180	260	9.33	<10	0.03
W17189		1.81	<0.5	0.82	<5	10	<0.5	<2	10.00	<0.5	97	1305	184	9.61	<10	0.02
W17190		1.79	<0.5	0.82	<5	10	<0.5	<2	9.96	<0.5	96	1365	178	9.68	<10	0.02
W17196		1.76	<0.5	0.88	<5	10	<0.5	<2	9.66	<0.5	96	1240	181	9.55	<10	0.04
W17197		1.71	<0.5	0.85	<5	10	<0.5	<2	9.87	<0.5	95	1365	141	9.48	<10	0.03
W17198		1.69	<0.5	0.86	<5	10	<0.5	<2	9.61	<0.5	97	1360	170	9.72	<10	0.03
W17200		Not Recvd														
W17201		1.34	<0.5	0.83	<5	10	<0.5	<2	9.71	<0.5	96	1385	123	9.62	<10	0.03
W17202		1.54	<0.5	0.84	<5	10	<0.5	<2	9.76	<0.5	96	1395	115	9.49	<10	0.03
W17203		1.82	<0.5	0.83	<5	10	<0.5	<2	9.56	<0.5	97	1355	108	9.50	<10	0.02
W17204		1.41	<0.5	0.84	<5	10	<0.5	<2	9.78	<0.5	99	1270	131	9.68	<10	0.02
W17207		1.97	<0.5	0.95	<5	10	<0.5	<2	9.58	<0.5	92	1085	280	9.41	<10	0.03
W17208		1.35	<0.5	0.86	6	10	<0.5	<2	9.45	<0.5	93	1305	184	9.38	<10	0.03
W17209		1.64	<0.5	0.89	<5	10	<0.5	2	9.84	<0.5	96	1345	207	9.88	<10	0.03
W17212		Not Recvd														
W17213		2.36	<0.5	0.91	<5	10	<0.5	<2	9.75	<0.5	93	1340	164	9.70	<10	0.04
W17214		1.87	<0.5	0.89	<5	10	<0.5	<2	9.65	<0.5	92	1335	137	9.62	<10	0.03
W17215		2.89	<0.5	1.50	5	20	<0.5	<2	9.56	<0.5	86	1210	139	9.48	10	0.05
W17226		0.53	<0.5	5.12	11	240	1.2	<2	1.44	<0.5	27	1630	143	19.30	20	0.65
W17227		0.57	<0.5	3.93	<5	800	0.6	<2	11.90	<0.5	58	742	109	6.52	10	0.48
W17228		1.14	<0.5	3.95	<5	1490	0.8	<2	8.57	<0.5	102	607	130	7.24	10	0.36
W17229		1.40	<0.5	4.34	<5	700	0.8	<2	6.62	<0.5	100	721	158	8.71	10	0.33
W17230		1.27	<0.5	5.40	<5	430	0.9	<2	4.03	<0.5	99	880	152	10.20	10	0.45
W17231		0.99	<0.5	5.78	<5	510	1.1	<2	4.47	<0.5	81	349	157	9.50	10	0.83
W17232		1.50	<0.5	5.99	<5	630	1.1	<2	4.01	<0.5	80	377	157	9.06	10	0.92
W17233		1.50	<0.5	5.89	<5	430	0.9	<2	5.10	<0.5	69	405	144	8.83	10	0.99
W17234		1.12	<0.5	6.71	<5	1090	1.4	2	2.78	<0.5	98	359	175	9.51	10	1.32
W17235		1.13	<0.5	6.50	<5	1420	1.3	<2	2.89	<0.5	111	526	161	9.59	10	1.88
W17236		1.82	<0.5	5.11	<5	730	1.2	<2	5.63	<0.5	76	374	151	8.81	10	1.42
W17237		1.66	<0.5	5.92	8	990	1.6	<2	3.81	<0.5	98	430	125	10.15	10	1.50
W17238		1.95	<0.5	7.43	<5	790	1.9	<2	1.21	<0.5	91	400	160	10.75	20	1.31
W17239		1.17	<0.5	6.69	<5	1450	1.8	<2	1.86	<0.5	109	360	160	9.28	10	1.33
W17240		0.64	<0.5	6.70	<5	710	1.8	<2	2.00	<0.5	82	379	160	9.10	20	1.07
W17241		0.87	<0.5	6.21	<5	600	1.7	<2	3.67	<0.5	83	403	149	9.31	10	1.04
W17242		1.61	<0.5	5.92	<5	760	1.8	<2	4.29	<0.5	104	463	175	10.55	10	0.96
W17243		0.92	<0.5	4.29	<5	900	1.6	<2	4.39	<0.5	109	580	205	9.40	10	0.75
W17244		0.63	<0.5	4.29	<5	1550	2.2	<2	4.27	<0.5	171	670	250	10.05	10	0.85
W17245		1.18	<0.5	4.40	<5	700	1.5	<2	4.27	<0.5	102	705	207	9.82	10	0.73
W17246		1.42	<0.5	4.79	<5	2130	2.1	<2	3.76	<0.5	164	651	242	10.50	10	1.00
W17247		0.32	<0.5	5.54	<5	1990	2.1	<2	2.37	<0.5	146	714	230	11.20	10	1.02

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS AD17164503

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
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Ti
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17183		<10	13.40	1665	3	0.12	328	30	<2	0.25	<5	59	26	<20	0.14	<10
W17189		<10	13.85	1720	4	0.12	349	40	2	0.17	<5	60	25	<20	0.14	<10
W17190		<10	13.90	1765	3	0.11	345	20	5	0.17	<5	61	25	<20	0.14	10
W17196		<10	13.50	1735	5	0.12	351	30	2	0.21	<5	60	27	<20	0.14	<10
W17197		<10	13.75	1755	4	0.12	342	40	<2	0.17	7	61	26	<20	0.14	<10
W17198		<10	14.05	1750	3	0.13	362	30	2	0.20	<5	61	25	<20	0.15	<10
W17200		<10	13.85	1715	3	0.11	341	20	2	0.19	<5	61	25	<20	0.14	<10
W17201		<10	13.65	1710	3	0.12	341	30	<2	0.18	<5	61	25	<20	0.15	<10
W17202		<10	13.55	1725	4	0.11	339	30	<2	0.18	<5	60	23	<20	0.14	<10
W17203		<10	13.80	1745	4	0.11	309	40	<2	0.20	<5	62	24	<20	0.14	<10
W17204		<10	13.45	1770	4	0.13	338	40	3	0.27	<5	64	25	<20	0.15	<10
W17207		<10	13.50	1700	3	0.12	360	30	<2	0.19	<5	60	24	<20	0.14	<10
W17208		<10	14.00	1775	5	0.13	376	40	<2	0.19	<5	62	27	<20	0.15	<10
W17209		<10	13.70	1750	3	0.12	368	30	2	0.17	<5	61	26	<20	0.15	<10
W17212		<10	13.65	1765	3	0.12	353	30	2	0.13	<5	60	26	<20	0.15	<10
W17213		10	12.85	1860	3	0.13	315	110	<2	0.13	<5	60	27	<20	0.20	<10
W17214		30	1.14	616	1	0.07	116	190	21	0.03	<5	52	44	20	0.40	<10
W17215		30	3.22	545	1	0.22	144	90	10	0.02	<5	39	382	<20	0.31	10
W17226		40	5.01	3880	1	0.46	174	100	70	0.02	<5	48	349	<20	0.37	10
W17227		70	5.45	2390	1	0.62	196	90	23	0.04	<5	57	340	<20	0.46	<10
W17228		230	4.18	1150	1	0.70	207	180	2	0.06	<5	67	248	<20	0.56	10
W17229		220	4.02	1165	1	0.92	150	200	16	0.04	<5	61	222	<20	0.45	<10
W17230		130	4.05	1620	<1	0.96	141	140	28	0.05	<5	59	340	<20	0.41	<10
W17231		60	4.67	1090	<1	0.96	131	90	11	0.04	<5	56	231	<20	0.41	<10
W17232		110	3.32	2880	<1	1.04	159	110	132	0.05	<5	60	226	<20	0.47	<10
W17233		110	4.10	3710	<1	1.27	163	130	115	0.04	<5	66	269	<20	0.37	<10
W17234		60	5.58	2000	1	1.01	124	110	6	0.04	<5	57	245	<20	0.36	<10
W17235		40	5.01	2830	1	1.11	136	140	4	0.06	<5	59	228	<20	0.45	<10
W17236		30	2.25	1810	<1	1.25	149	140	<2	0.06	<5	56	227	<20	0.61	<10
W17237		30	2.50	3710	1	1.41	147	110	3	0.05	<5	52	289	<20	0.47	10
W17238		20	2.98	1795	<1	1.26	127	120	<2	0.04	<5	48	219	<20	0.43	<10
W17239		30	4.39	1905	1	1.04	120	130	4	0.03	<5	52	217	<20	0.41	<10
W17240		20	5.33	2670	<1	0.98	132	150	3	0.03	5	60	212	<20	0.40	<10
W17241		20	5.87	3000	<1	0.97	150	150	<2	0.03	<5	66	174	<20	0.27	10
W17242		30	5.95	5360	1	1.09	181	190	19	0.03	<5	70	130	<20	0.28	<10
W17243		20	5.89	2370	<1	1.10	161	140	8	0.03	<5	71	131	<20	0.28	<10
W17244		40	5.29	6710	<1	1.12	179	240	<2	0.04	<5	76	203	<20	0.29	<10
W17245		30	3.83	5820	1	1.26	181	240	7	0.05	<5	77	158	<20	0.33	<10



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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Au-ICP22 Au ppm 0.001	PUL-QC Pass75um %
W17183		<10	170	<10	75	0.003	
W17189		<10	173	<10	80	0.002	
W17190		<10	177	<10	80	0.001	
W17196		<10	177	<10	80	0.002	
W17197		<10	177	<10	82	0.001	95.0
W17198		<10	178	<10	94	0.002	
W17200							
W17201		<10	178	<10	75	0.002	
W17202		<10	180	<10	78	0.002	
W17203		<10	178	<10	72	0.002	
W17204		<10	181	<10	79	0.002	
W17207		<10	184	<10	84	0.003	
W17208		<10	177	<10	86	0.002	
W17209		<10	182	<10	85	0.002	
W17212							
W17213		<10	181	<10	82	0.002	
W17214		<10	182	<10	84	0.001	
W17215		<10	190	<10	81	0.002	
W17226		<10	420	<10	395	0.001	
W17227		<10	73	<10	150	0.002	
W17228		<10	135	<10	169	0.002	
W17229		<10	117	<10	354	0.007	
W17230		<10	102	<10	262	0.015	
W17231		<10	125	<10	215	0.005	
W17232		<10	142	<10	219	0.008	
W17233		<10	141	<10	216	0.004	
W17234		<10	156	<10	397	0.010	
W17235		<10	174	<10	447	0.002	
W17236		<10	159	<10	200	0.002	
W17237		<10	202	<10	189	0.003	
W17238		<10	153	<10	191	0.001	
W17239		<10	171	<10	191	0.002	
W17240		<10	150	<10	198	0.005	
W17241		<10	181	<10	222	0.003	
W17242		<10	223	<10	198	<0.001	
W17243		<10	187	<10	174	<0.001	
W17244		<10	263	<10	193	0.003	
W17245		<10	162	<10	175	0.001	
W17246		<10	257	<10	174	0.001	
W17247		<10	260	<10	253	0.004	



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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	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
W17248		0.44	<0.5	5.23	5	1020	1.9	<2	2.93	<0.5	91	872	191	11.45	10	0.99
W17249		1.74	<0.5	4.32	<5	470	1.3	<2	5.97	<0.5	66	740	120	9.39	10	0.38
W17250	Not Recvd															
W17251		0.95	<0.5	5.83	6	920	2.1	<2	1.48	<0.5	100	949	213	12.30	10	0.48
W17252		1.63	<0.5	6.12	5	650	2.0	<2	1.83	<0.5	80	715	217	11.05	10	0.86
W17253		1.04	<0.5	5.75	5	260	1.4	<2	3.15	<0.5	66	609	150	11.05	10	0.67
W17254		1.42	<0.5	7.18	<5	710	2.0	<2	1.58	<0.5	71	493	162	10.95	20	1.02
W17255		1.62	<0.5	9.07	<5	370	2.5	<2	0.51	<0.5	71	327	307	12.05	20	1.36
W17256		1.02	<0.5	6.91	<5	230	1.7	<2	1.56	<0.5	65	837	235	12.75	20	0.68
W17257		1.37	<0.5	7.54	<5	330	2.1	<2	1.15	<0.5	70	774	244	13.35	20	1.01
W17258		1.38	<0.5	7.51	<5	450	1.7	<2	0.72	<0.5	68	620	190	12.30	20	1.27
W17259		1.15	<0.5	6.93	<5	360	1.5	<2	0.56	<0.5	74	1025	176	12.65	20	1.01
W17260		1.56	<0.5	6.18	<5	720	1.7	<2	0.44	<0.5	85	1100	275	12.00	20	0.80
W17261		2.08	<0.5	5.92	<5	620	1.7	<2	0.82	<0.5	83	1065	197	11.15	20	0.79
W17262		0.60	<0.5	5.83	<5	430	1.5	2	0.95	<0.5	66	1210	148	9.61	20	1.41
W17263		2.45	<0.5	7.74	<5	400	2.2	<2	0.33	<0.5	60	511	112	8.13	20	2.25
W17264		2.53	<0.5	7.18	<5	580	2.9	<2	0.68	<0.5	35	132	52	5.34	20	2.00
W17265		2.58	<0.5	7.27	<5	460	2.6	<2	0.55	<0.5	39	132	73	6.38	20	2.03
W17266		1.60	<0.5	7.39	<5	370	3.0	<2	1.04	<0.5	50	396	130	9.92	20	1.59
W17267		2.23	<0.5	7.60	<5	380	4.3	4	0.97	0.6	47	244	174	10.75	20	1.28
W17268		2.11	<0.5	7.01	8	560	4.8	<2	0.62	<0.5	61	129	125	11.15	20	1.74
W17269		1.12	<0.5	8.13	<5	360	4.1	3	1.10	0.6	43	208	122	9.40	20	1.71
W17270		1.56	<0.5	7.83	<5	350	3.6	<2	1.22	<0.5	38	236	101	8.70	20	1.68
W17271		1.16	<0.5	7.96	<5	300	3.7	<2	2.11	0.5	42	107	87	9.05	20	1.73
W17272		1.75	<0.5	7.21	<5	350	3.6	4	2.25	0.5	45	98	96	9.84	20	1.57
W17273		1.40	<0.5	7.13	<5	410	3.9	4	1.63	0.5	46	116	116	9.27	20	1.71
W17274		2.29	<0.5	7.42	<5	590	4.2	<2	1.51	<0.5	44	121	249	9.57	20	2.14
W17275	Not Recvd															
W17276		2.20	<0.5	6.95	<5	680	3.6	<2	0.67	<0.5	68	743	125	9.42	20	1.68
W17277		2.00	<0.5	6.96	<5	400	4.0	2	1.43	0.5	58	740	122	9.43	20	1.67
W17278		0.60	<0.5	7.28	<5	470	3.7	<2	1.42	0.5	55	815	107	8.46	20	1.98
W17279		2.13	<0.5	5.32	<5	370	2.6	<2	3.39	<0.5	58	1225	80	7.30	10	1.52
W12282		1.89	<0.5	7.12	<5	860	2.1	<2	0.75	<0.5	22	111	46	4.42	20	2.69
W17284		3.26	<0.5	8.35	<5	1050	1.7	<2	1.99	<0.5	25	122	39	5.88	20	3.63
W17285		1.84	<0.5	8.39	<5	770	2.0	5	2.52	<0.5	37	126	223	8.73	20	2.83
W17286		2.78	<0.5	7.95	<5	590	2.2	<2	2.60	<0.5	43	158	249	9.38	20	2.18
W17287		1.76	<0.5	7.56	<5	580	1.5	<2	4.08	<0.5	37	355	73	7.83	20	2.69
W17434		1.30	<0.5	10.30	5	930	4.6	2	0.50	<0.5	18	77	33	4.69	30	4.34
W17435		1.87	<0.5	8.80	6	770	3.4	2	0.56	<0.5	18	87	21	4.47	20	3.56
W17436		1.66	<0.5	7.70	9	640	2.6	<2	0.48	<0.5	12	60	14	3.79	20	3.05



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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
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
		ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	ppm 1	ppm 20	% 0.01	ppm 10
W17248		40	4.47	2720	<1	0.95	171	200	7	0.06	<5	86	163	<20	0.36	<10
W17249		20	6.98	1590	1	0.61	129	160	5	0.03	<5	69	97	<20	0.29	<10
W17250																
W17251		30	3.03	2500	<1	1.25	189	210	5	0.06	<5	82	174	<20	0.39	<10
W17252		40	3.26	1570	<1	1.27	168	240	12	0.05	5	74	168	<20	0.35	<10
W17253		40	4.38	826	<1	1.07	129	180	4	0.04	<5	75	176	<20	0.41	10
W17254		60	2.69	1720	1	0.98	130	260	5	0.05	6	67	193	<20	0.44	<10
W17255		40	1.73	457	<1	0.99	150	280	<2	0.06	<5	53	184	<20	0.59	10
W17256		50	2.78	573	<1	0.67	157	160	<2	0.06	<5	69	141	<20	0.51	<10
W17257		70	2.39	588	<1	0.77	171	230	5	0.06	8	70	169	<20	0.51	<10
W17258		40	2.02	653	1	0.83	159	190	4	0.06	<5	63	169	<20	0.60	<10
W17259		40	2.06	343	1	0.88	186	170	<2	0.06	5	66	190	<20	0.68	<10
W17260		90	2.06	1680	1	0.79	193	410	9	0.06	<5	68	151	<20	0.69	<10
W17261		60	2.37	1185	<1	1.02	185	270	2	0.05	<5	62	195	<20	0.56	<10
W17262		20	2.36	443	1	0.95	168	120	12	0.05	<5	52	148	<20	0.58	<10
W17263		30	2.59	412	<1	0.67	122	100	5	0.03	<5	34	116	<20	0.45	10
W17264		50	1.68	607	1	0.91	53	150	14	0.03	<5	24	134	20	0.45	<10
W17265		40	1.59	462	1	0.81	62	120	19	0.03	<5	25	136	<20	0.59	<10
W17266		30	1.85	627	1	1.10	109	790	9	0.04	<5	43	198	<20	0.76	<10
W17267		20	1.60	752	<1	1.54	105	1180	5	0.04	<5	44	197	<20	0.98	<10
W17268		30	1.54	898	<1	1.21	98	1290	6	0.03	<5	40	182	<20	1.04	10
W17269		20	1.69	753	<1	1.16	95	1390	7	0.03	<5	38	182	<20	1.01	10
W17270		20	1.89	645	<1	1.12	92	1170	11	0.03	<5	36	194	<20	0.81	<10
W17271		20	2.18	844	1	1.25	78	1360	11	0.02	<5	34	207	<20	0.85	<10
W17272		20	2.07	1010	<1	1.53	84	1130	14	0.02	<5	38	255	<20	0.97	10
W17273		20	1.83	953	<1	1.49	85	1060	11	0.02	<5	39	294	<20	0.95	<10
W17274		20	1.76	865	<1	1.37	93	1250	7	0.02	<5	41	312	<20	0.97	10
W17275																
W17276		20	2.52	956	<1	1.51	180	810	4	0.03	<5	38	225	<20	0.52	<10
W17277		20	3.06	833	<1	1.47	170	860	5	0.03	<5	42	238	<20	0.80	<10
W17278		20	2.99	685	<1	1.63	169	750	5	0.03	<5	39	277	<20	0.60	<10
W17279		20	5.37	889	1	1.03	220	600	8	0.02	<5	43	174	<20	0.30	<10
W12282		30	1.42	501	<1	1.40	49	740	15	0.01	<5	16	317	20	0.39	<10
W17284		30	1.89	770	1	1.11	39	930	9	0.06	<5	21	368	<20	0.56	<10
W17285		30	2.62	1080	2	1.00	49	1100	9	0.75	<5	31	278	<20	0.81	10
W17286		30	2.98	1270	2	1.26	77	890	13	0.75	<5	33	255	<20	0.82	<10
W17287		20	4.21	1300	2	1.03	99	800	10	0.09	<5	33	255	<20	0.51	<10
W17434		30	1.69	443	1	1.24	36	560	71	0.09	<5	17	97	20	0.38	<10
W17435		40	1.55	435	1	1.24	34	550	28	0.07	<5	15	115	20	0.36	<10
W17436		40	1.24	359	1	1.04	23	550	45	0.06	<5	12	112	20	0.31	10



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001	% 0.01
W17248		<10	200	<10	198	0.007	
W17249		<10	185	<10	219	0.033	
W17250							
W17251		<10	185	<10	213	0.002	
W17252		<10	199	<10	208	0.001	98.0
W17253		<10	159	<10	150	0.003	
W17254		10	168	<10	159	0.001	
W17255		10	233	10	154	<0.001	
W17256		<10	178	<10	169	<0.001	
W17257		<10	179	<10	162	<0.001	
W17258		<10	153	<10	170	<0.001	
W17259		<10	125	<10	189	<0.001	
W17260		20	163	<10	274	<0.001	
W17261		10	151	<10	244	0.002	
W17262		<10	133	<10	209	<0.001	
W17263		<10	142	<10	252	<0.001	
W17264		<10	117	<10	159	<0.001	
W17265		<10	137	<10	151	<0.001	
W17266		<10	185	<10	191	0.002	
W17267		<10	269	<10	190	<0.001	
W17268		<10	268	<10	217	0.001	
W17269		<10	254	<10	152	0.003	
W17270		<10	191	<10	137	0.006	
W17271		<10	217	<10	145	0.004	
W17272		<10	263	<10	238	0.005	
W17273		<10	258	<10	154	0.014	
W17274		<10	286	<10	126	0.018	
W17275							
W17276		<10	145	<10	175	0.001	
W17277		<10	210	<10	162	0.011	
W17278		<10	179	<10	158	0.012	
W17279		<10	149	<10	156	0.017	
W12282		<10	101	<10	92	0.001	
W17284		<10	145	<10	99	0.002	
W17285		<10	225	<10	124	0.003	
W17286		<10	249	<10	200	0.002	
W17287		<10	198	<10	123	0.001	
W17434		<10	91	<10	194	0.003	
W17435		<10	82	<10	203	0.001	
W17436		<10	63	<10	164	0.002	



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CERTIFICATE OF ANALYSIS AD17164503

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	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
W17437		1.52	<0.5	9.85	15	760	3.3	<2	0.41	1.2	16	73	45	4.66	30	4.15
W17451		1.20	<0.5	9.02	5	630	2.8	<2	0.59	0.5	14	74	20	4.30	30	3.78
W17452		1.11	<0.5	8.31	<5	660	2.5	<2	0.46	<0.5	16	64	59	4.04	20	3.58
W17453		1.28	<0.5	10.10	<5	720	3.2	4	0.58	<0.5	19	81	33	5.53	30	4.12
W17461		1.16	<0.5	8.65	8	640	4.2	<2	0.30	<0.5	15	73	16	4.78	30	3.04
W17462		0.94	<0.5	8.03	<5	780	2.2	<2	0.36	<0.5	15	56	23	3.62	20	3.00
W17463		1.01	<0.5	7.50	<5	710	1.9	<2	0.42	<0.5	17	55	32	3.60	20	2.60
W17464		1.23	0.5	10.30	8	770	3.2	3	0.48	<0.5	19	73	85	5.05	30	3.80
W17475	Not Recvd															
W17486		1.31	<0.5	8.69	7	680	2.9	<2	0.34	<0.5	23	68	51	4.37	20	3.50
W17487		1.42	0.5	7.26	11	570	2.8	2	0.60	<0.5	15	52	55	3.38	20	2.67
W17488		1.69	<0.5	6.91	<5	510	2.5	<2	0.69	0.7	9	49	19	2.64	20	2.45
W17492		2.58	<0.5	8.46	<5	640	3.4	<2	0.39	<0.5	14	57	29	3.91	20	3.21
W17504		1.91	<0.5	9.79	<5	790	4.3	3	0.45	<0.5	17	67	53	4.51	30	4.20
W17507		1.85	<0.5	7.32	6	760	2.7	<2	0.89	<0.5	12	55	21	3.53	20	2.39
W17511		1.64	<0.5	6.97	<5	820	2.7	<2	0.61	<0.5	9	52	11	3.18	20	2.56
W17095		1.71	<0.5	1.00	<5	20	<0.5	<2	9.49	0.8	98	1275	168	8.69	<10	0.07



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Sample Description	Method Analyte Units LOR	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10
W17437		30	1.62	379	1	1.01	33	510	100	0.13	<5	16	73	20	0.34	<10
W17451		40	1.37	378	<1	1.00	36	570	117	0.18	<5	15	81	20	0.38	<10
W17452		40	1.18	386	2	0.99	32	540	34	0.35	<5	13	82	20	0.33	<10
W17453		30	1.66	459	<1	1.17	39	520	31	0.19	<5	17	87	20	0.39	10
W17461		20	2.75	418	1	0.76	31	480	22	0.14	<5	14	42	<20	0.32	<10
W17462		50	1.80	307	2	0.87	25	490	18	0.15	<5	12	48	20	0.30	<10
W17463		30	1.66	314	1	1.13	22	530	26	0.25	<5	11	59	20	0.28	<10
W17464		40	2.10	431	<1	1.33	30	530	52	0.19	<5	16	85	20	0.33	<10
W17475																
W17486		30	1.76	345	1	0.93	32	480	47	0.13	<5	13	58	20	0.31	<10
W17487		50	1.48	300	1	1.10	25	490	69	0.10	<5	10	84	20	0.26	<10
W17488		40	0.85	279	2	1.24	19	550	57	0.11	<5	9	110	20	0.27	<10
W17492		40	1.64	328	1	1.02	26	520	26	0.04	<5	13	53	20	0.31	10
W17504		40	1.48	375	<1	0.98	33	510	46	0.10	<5	16	84	20	0.34	<10
W17507		40	1.34	400	<1	1.72	22	530	36	0.03	<5	11	129	20	0.29	<10
W17511		40	1.27	320	2	1.61	19	520	21	0.03	<5	10	129	20	0.27	<10
W17095		<10	13.20	1700	3	0.15	343	40	6	0.18	<5	59	29	<20	0.16	<10

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-ICP22	PUL-QC
		U	V	W	Zn	Au	Pass75um
		ppm	ppm	ppm	ppm	ppm	%
		10	1	10	2	0.001	0.01
W17437		<10	85	<10	534	0.003	
W17451		<10	86	<10	257	0.001	
W17452		<10	76	10	103	0.004	
W17453		<10	89	10	140	0.001	
W17461		<10	84	<10	118	0.001	97.0
W17462		<10	67	<10	70	0.001	
W17463		<10	59	<10	75	0.002	
W17464		<10	81	<10	180	0.003	
W17475							
W17486		<10	73	10	202	0.001	
W17487		<10	54	<10	150	0.002	
W17488		<10	52	10	316	<0.001	
W17492		<10	65	<10	104	<0.001	
W17504		<10	80	<10	130	0.001	
W17507		<10	57	<10	80	<0.001	
W17511		<10	54	<10	60	<0.001	
W17095		10	175	<10	86	0.001	



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CERTIFICATE OF ANALYSIS AD17164503

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-QC SPL-21 WEI-21

PUL-23