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## QC CERTIFICATE AD17182210

P.O. No.: TRR17-011

This report is for 65 Rock 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
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-23	Pulv Sample - Split/Retain

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
B-MS89L	Boron Add-on to ME-MS89L
ME-MS89L	Super Trace DL Na2O2 by ICP-MS ICP-MS

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:

Colin Ramshaw, Vancouver Laboratory Manager



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## QC CERTIFICATE OF ANALYSIS AD17182210

Method Analyte Units LOR	ME-MS89L Ag ppm 5	ME-MS89L As ppm 4	ME-MS89L Ba ppm 2	ME-MS89L Be ppm 0.4	ME-MS89L Bi ppm 0.1	ME-MS89L Ca % 0.1	ME-MS89L Cd ppm 0.8	ME-MS89L Ce ppm 0.2	ME-MS89L Co ppm 0.5	ME-MS89L Cs ppm 0.1	ME-MS89L Cu ppm 20	ME-MS89L Dy ppm 0.03	ME-MS89L Er ppm 0.02	ME-MS89L Eu ppm 0.03	ME-MS89L Fe % 0.05
Sample Description															
STANDARDS															
AMIS0343	<5	14	73	240	2.7	0.4	<0.8	1.1	2.2	340	50	0.16	0.12	0.04	0.85
Target Range - Lower Bound	<5	<4	68	209	2.4	<0.1	<0.8	<0.2	1.5	0.8	<20	<0.03	<0.02	<0.03	0.65
Upper Bound	10	22	87	257	3.2	0.5	1.6	1.1	3.7	1.4	90	0.14	0.10	0.09	0.93
GBW07249	<5	139	1110	4.2	11.5	1.6	3.3	716	2690	0.3	2030	37.0	21.1	9.11	14.10
GBW07249	<5	159	1200	4.3	11.2	1.5	2.8	706	2990	0.4	2220	36.6	19.70	9.10	15.60
Target Range - Lower Bound															
Upper Bound															
GBW07709	11	<4	8940	97.2	79.4	0.9	9.0	885	0.8	0.1	930	<0.03	<0.02	0.03	2.49
Target Range - Lower Bound															
Upper Bound															
GTA-01	<5	<4	51	176.5	1.6	0.3	<0.8	0.2	0.7	145.5	<20	0.08	<0.02	<0.03	0.56
Target Range - Lower Bound	<5	<4	48	165.0	1.4	0.3	<0.8	<0.2	<0.5	132.5	<20	<0.03	<0.02	0.23	0.41
Upper Bound	15	10	64	202	2.0	0.8	2.1	0.7	1.6	162.0	50	0.15	0.07	0.38	0.66
GTA-02	<5	<4	53	182.0	1.2	0.4	<0.8	0.2	0.7	182.5	<20	0.05	0.02	<0.03	0.54
Target Range - Lower Bound	<5	<4	48	172.0	1.1	0.4	<0.8	<0.2	<0.5	157.0	<20	<0.03	<0.02	<0.03	0.39
Upper Bound	14	10	63	211	1.7	0.8	2.0	0.6	1.6	192.0	40	0.10	0.07	0.12	0.64
OREAS 146	<5	10	12500	13.2	2.8	12.2	1.7	4250	33.0	0.6	30	212	80.2	116.0	19.70
Target Range - Lower Bound	<5	<4	11900	11.8	2.3	12.1	<0.8	3910	30.0	0.5	<20	202	78.3	111.0	18.30
Upper Bound	15	22	14600	15.3	3.1	15.1	3.7	4790	37.8	0.9	80	246	95.7	136.0	22.5
STSD-3	<5	29	1340	2.3	1.2	2.3	1.4	56.4	16.7	4.9	40	4.87	3.02	1.21	4.23
Target Range - Lower Bound															
Upper Bound															
SY-4	<5	<4	317	3.0	0.1	5.7	<0.8	113.0	2.3	1.6	<20	19.40	14.80	1.92	4.47
Target Range - Lower Bound	<5	<4	299	2.1	<0.1	5.1	<0.8	107.5	1.7	1.2	<20	16.35	12.75	1.75	3.91
Upper Bound	15	12	369	4.0	0.4	6.4	1.6	131.5	3.9	1.8	60	20.1	15.65	2.21	4.89
BLANKS															
BLANK	5	<4	<2	<0.4	<0.1	0.2	<0.8	<0.2	<0.5	0.1	<20	<0.03	<0.02	<0.03	<0.05
BLANK	5	<4	<2	<0.4	0.2	0.1	0.8	0.3	<0.5	0.1	<20	<0.03	<0.02	<0.03	<0.05
BLANK	6	<4	<2	<0.4	0.2	0.1	0.9	<0.2	<0.5	0.2	<20	0.04	<0.02	<0.03	<0.05
BLANK	<5	<4	<2	<0.4	0.1	0.2	<0.8	<0.2	<0.5	0.1	<20	<0.03	<0.02	<0.03	<0.05
Target Range - Lower Bound	<5	<4	<2	<0.4	<0.1	<0.1	<0.8	<0.2	<0.5	<0.1	<20	<0.03	<0.02	<0.03	<0.05
Upper Bound	10	8	4	0.8	0.2	0.2	1.6	0.4	1.0	0.2	40	0.06	0.04	0.06	0.10



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## QC CERTIFICATE OF ANALYSIS AD17182210

Sample Description	Method Analyte Units LOR	ME-MS89L Ga ppm 0.5	ME-MS89L Gd ppm 0.03	ME-MS89L Ge ppm 0.5	ME-MS89L Ho ppm 0.01	ME-MS89L In ppm 0.3	ME-MS89L K % 0.05	ME-MS89L La ppm 0.08	ME-MS89L Li ppm 2	ME-MS89L Lu ppm 0.05	ME-MS89L Mn ppm 10	ME-MS89L Mo ppm 2	ME-MS89L Nb ppm 0.8	ME-MS89L Nd ppm 0.07	ME-MS89L Ni ppm 10	ME-MS89L Pb ppm 0.5
<b>STANDARDS</b>																
AMIS0343		45.8	0.19	7.3	0.03	<0.3	2.55	0.52	7320	<0.05	970	4	44.7	0.47	20	6.0
Target Range - Lower Bound		39.7	0.09	6.1	<0.01	<0.3	2.16	0.26	6310	<0.05	810	<2	37.0	0.44	<10	4.3
Upper Bound		49.7	0.23	8.9	0.05	0.7	2.76	0.62	7720	0.12	1010	8	47.0	0.78	30	6.9
GBW07249		14.3	40.4	<0.5	7.44	0.4	0.55	169.0	7	3.07	>25000	297	49.6	157.5	2690	658
GBW07249		17.7	39.6	1.0	7.40	0.5	0.54	177.5	7	2.88	>25000	308	50.0	160.5	2910	689
Target Range - Lower Bound																
Upper Bound																
GBW07709		16.4	<0.03	1.6	<0.01	<0.3	1.13	0.10	1040	<0.05	9720	103	15.1	<0.07	<10	837
Target Range - Lower Bound																
Upper Bound																
GTA-01		56.9	0.09	6.1	0.01	<0.3	2.23	0.28	3310	<0.05	940	2	49.6	0.08	10	11.7
Target Range - Lower Bound		47.5	<0.03	5.7	<0.01	<0.3	1.91	<0.08	3020	<0.05	800	<2	41.5	<0.07	<10	10.2
Upper Bound		59.1	0.13	8.5	0.03	0.7	2.45	0.42	3700	0.13	1000	6	52.5	0.25	40	13.6
GTA-02		57.0	0.04	7.5	<0.01	<0.3	2.58	0.11	1820	<0.05	750	2	60.7	0.08	10	13.4
Target Range - Lower Bound		49.5	<0.03	6.2	<0.01	<0.3	2.19	<0.08	1615	<0.05	630	<2	50.5	<0.07	<10	11.5
Upper Bound		61.7	0.11	9.0	0.02	0.6	2.79	0.28	1975	0.13	790	6	63.5	0.21	40	15.1
OREAS 146		34.5	323	5.4	34.5	<0.3	1.11	2350	22	6.32	18600	59	401	1935	60	672
Target Range - Lower Bound		28.8	309	4.3	31.8	<0.3	0.90	2260	21	5.62	18550	52	348	1935	60	657
Upper Bound		36.4	377	6.9	38.8	1.0	1.22	2760	31	6.98	22700	68	428	2370	110	804
STSD-3		14.5	6.08	0.6	1.12	<0.3	1.57	32.6	29	0.61	2650	7	13.5	29.5	30	39.3
Target Range - Lower Bound																
Upper Bound																
SY-4		36.8	14.90	1.6	4.70	<0.3	1.42	54.8	36	2.26	870	<2	14.6	55.8	10	8.7
Target Range - Lower Bound		32.7	12.75	<0.5	3.86	<0.3	1.19	52.1	32	1.84	760	<2	11.3	52.0	<10	8.5
Upper Bound		41.1	15.65	2.6	4.74	1.0	1.57	63.9	44	2.36	950	6	15.9	63.8	30	11.5
<b>BLANKS</b>																
BLANK		<0.5	<0.03	0.6	<0.01	<0.3	0.09	<0.08	<2	<0.05	<10	<2	0.9	<0.07	<10	<0.5
BLANK		0.9	<0.03	4.0	<0.01	<0.3	0.09	<0.08	<2	<0.05	<10	<2	0.8	<0.07	<10	<0.5
BLANK		<0.5	<0.03	0.6	0.01	<0.3	0.09	<0.08	<2	<0.05	<10	<2	1.1	<0.07	<10	<0.5
BLANK		<0.5	<0.03	2.3	<0.01	<0.3	0.09	<0.08	<2	<0.05	<10	<2	0.8	<0.07	<10	<0.5
Target Range - Lower Bound		<0.5	<0.03	<0.5	<0.01	<0.3	<0.05	<0.08	<2	<0.05	<10	<2	<0.8	<0.07	<10	<0.5
Upper Bound		1.0	0.06	1.0	0.02	0.6	0.10	0.16	4	0.10	20	4	1.6	0.14	20	1.0



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Sample Description	Method Analyte Units LOR	ME-MS89L Pr ppm 0.03	ME-MS89L Rb ppm 0.5	ME-MS89L Re ppm 0.01	ME-MS89L Sb ppm 0.3	ME-MS89L Se ppm 3	ME-MS89L Sm ppm 0.04	ME-MS89L Sn ppm 3	ME-MS89L Sr ppm 20	ME-MS89L Ta ppm 0.04	ME-MS89L Tb ppm 0.01	ME-MS89L Te ppm 0.5	ME-MS89L Th ppm 0.1	ME-MS89L Ti % 0.005	ME-MS89L Tl ppm 0.02	ME-MS89L Tm ppm 0.01
STANDARDS																
AMIS0343		0.13	3760	<0.01	6.6	<3	0.11	81	20	169.5	0.03	<0.5	3.0	0.005	29.8	0.02
Target Range - Lower Bound		0.04	3280	<0.01	6.0	<3	<0.04	74	<20	160.0	<0.01	<0.5	1.7	<0.005	29.7	<0.01
Upper Bound		0.18	4000	0.03	8.0	8	0.20	97	60	196.0	0.04	1.5	2.3	0.021	36.3	0.03
GBW07249		42.6	5.7	0.01	21.0	<3	37.0	4	870	1.26	6.38	11.1	25.2	0.816	96.9	3.23
GBW07249		38.9	5.6	<0.01	22.3	<3	36.1	3	900	0.87	6.00	10.6	26.3	0.797	97.7	2.82
Target Range - Lower Bound																
Upper Bound																
GBW07709		<0.03	0.7	<0.01	91.0	<3	0.06	94	920	0.61	0.04	<0.5	<0.1	0.962	0.04	<0.01
Target Range - Lower Bound																
Upper Bound																
GTA-01		<0.03	3710	<0.01	<0.3	<3	0.06	423	20	402	<0.01	<0.5	4.1	<0.005	27.5	<0.01
Target Range - Lower Bound		<0.03	3310	<0.01	<0.3	<3	<0.04	391	<20	373	<0.01	<0.5	3.3	<0.005	24.3	<0.01
Upper Bound		0.09	4040	0.03	1.4	10	0.15	485	70	457	0.04	1.9	4.3	0.010	29.7	0.03
GTA-02		<0.03	3950	<0.01	<0.3	<3	<0.04	383	20	675	0.03	<0.5	3.9	<0.005	31.4	<0.01
Target Range - Lower Bound		<0.03	3510	<0.01	<0.3	<3	<0.04	353	<20	622	<0.01	<0.5	3.1	<0.005	27.4	<0.01
Upper Bound		0.06	4290	0.03	1.0	11	0.12	438	80	760	0.02	2.1	4.0	0.010	33.6	0.02
OREAS 146		512	26.5	<0.01	<0.3	<3	401	43	2860	3.62	40.9	<0.5	861	0.856	0.43	9.90
Target Range - Lower Bound		493	24.6	<0.01	<0.3	<3	390	38	2770	3.10	37.0	<0.5	805	0.752	0.41	8.45
Upper Bound		603	31.2	0.03	1.3	6	476	54	3430	3.88	45.2	1.0	985	1.030	0.55	10.35
STSD-3		7.72	62.3	<0.01	3.6	<3	6.08	3	220	0.84	0.79	<0.5	7.6	0.393	0.59	0.44
Target Range - Lower Bound																
Upper Bound																
SY-4		13.75	54.1	<0.01	<0.3	<3	12.45	7	1150	1.16	2.82	<0.5	1.1	0.173	0.25	2.45
Target Range - Lower Bound		13.05	50.5	<0.01	<0.3	<3	11.40	<3	1050	0.59	2.33	<0.5	1.0	0.140	0.20	2.06
Upper Bound		16.05	62.9	0.02	1.0	9	14.00	15	1330	0.83	2.87	1.0	1.6	0.201	0.30	2.54
BLANKS																
BLANK		<0.03	<0.5	0.01	<0.3	<3	<0.04	<3	<20	<0.04	0.01	<0.5	<0.1	<0.005	<0.02	<0.01
BLANK		<0.03	<0.5	<0.01	<0.3	<3	<0.04	<3	<20	0.05	0.01	<0.5	<0.1	<0.005	<0.02	0.01
BLANK		<0.03	<0.5	<0.01	<0.3	6	<0.04	<3	<20	0.16	<0.01	<0.5	<0.1	<0.005	<0.02	0.01
BLANK		<0.03	<0.5	<0.01	<0.3	<3	<0.04	<3	<20	0.06	<0.01	<0.5	<0.1	<0.005	<0.02	<0.01
Target Range - Lower Bound		<0.03	<0.5	<0.01	<0.3	<3	<0.04	<3	<20	<0.04	<0.01	<0.5	<0.1	<0.005	<0.02	<0.01
Upper Bound		0.06	1.0	0.02	0.6	6	0.08	6	40	0.08	0.02	1.0	0.2	0.010	0.04	0.02



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Sample Description	Method Analyte Units LOR	ME-MS89L U ppm 0.2	ME-MS89L V ppm 1	ME-MS89L W ppm 0.3	ME-MS89L Y ppm 0.2	ME-MS89L Yb ppm 0.02	ME-MS89L Zn ppm 10	B-MS89L B ppm 8
STANDARDS								
AMIS0343		5.8	6	3.1	1.3	0.13	70	191
Target Range - Lower Bound		5.5	<1	2.7	0.4	<0.02	60	
Upper Bound		7.1	6	4.3	1.2	0.09	100	
GBW07249		7.1	497	52.4	126.0	19.75	420	215
GBW07249		7.3	555	52.0	125.0	19.00	430	214
Target Range - Lower Bound								175
Upper Bound								255
GBW07709		0.2	1040	97.2	<0.2	101.0	1050	1140
Target Range - Lower Bound								842
Upper Bound								1160
GTA-01		5.6	2	4.7	0.5	<0.02	60	36
Target Range - Lower Bound		5.0	<1	4.5	0.3	<0.02	50	
Upper Bound		6.6	4	6.2	1.2	0.06	90	
GTA-02		6.2	1	5.7	0.3	0.02	40	158
Target Range - Lower Bound		4.8	<1	4.4	<0.2	<0.02	30	
Upper Bound		6.4	5	6.1	0.7	0.06	70	
OREAS 146		2.4	161	27.0	881	52.3	1390	10
Target Range - Lower Bound		1.9	144	25.8	814	47.1	1360	
Upper Bound		2.9	178	32.2	996	57.7	1680	
STSD-3		8.9	140	1.7	34.7	3.06	190	100
Target Range - Lower Bound								64
Upper Bound								114
SY-4		0.7	8	<0.3	120.5	16.65	90	19
Target Range - Lower Bound		0.4	6	<0.3	107.0	13.65	80	
Upper Bound		1.2	10	0.9	131.0	16.75	130	
BLANKS								
BLANK		0.2	<1	<0.3	<0.2	<0.02	<10	16
BLANK		0.2	<1	0.3	<0.2	<0.02	<10	<8
BLANK		0.2	2	<0.3	<0.2	<0.02	20	<8
BLANK		0.2	6	<0.3	<0.2	<0.02	10	<8
Target Range - Lower Bound		<0.2	<1	<0.3	<0.2	<0.02	<10	
Upper Bound		0.4	2	0.6	0.4	0.04	20	



Sample Description	Method Analyte Units LOR	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L	ME-MS89L
		Ag	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cs	Cu	Dy	Er	Eu	Fe
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		5	4	2	0.4	0.1	0.1	0.8	0.2	0.5	0.1	20	0.03	0.02	0.03	0.05
		DUPLICATES														
B037		<5	<4	50	18.2	0.1	0.1	<0.8	3.0	0.7	42.5	<20	0.06	0.04	<0.03	0.41
DUP		<5	<4	54	16.8	0.1	0.1	<0.8	3.2	0.5	45.6	<20	0.15	0.09	<0.03	0.47
Target Range - Lower Bound		<5	<4	47	15.8	<0.1	<0.1	<0.8	2.7	<0.5	41.7	<20	0.07	0.04	<0.03	0.37
Upper Bound		10	8	57	19.2	0.2	0.2	1.6	3.5	1.0	46.4	40	0.14	0.09	0.06	0.51
B068		<5	<4	147	123.0	0.2	0.3	<0.8	9.5	1.8	320	<20	0.88	0.46	0.27	0.98
DUP		<5	<4	149	106.5	0.2	0.3	<0.8	9.2	1.8	313	<20	0.82	0.33	0.18	0.94
Target Range - Lower Bound		<5	<4	139	105.5	<0.1	0.2	<0.8	8.7	1.2	301	<20	0.78	0.36	0.18	0.86
Upper Bound		10	8	157	124.0	0.3	0.4	1.6	10.0	2.4	332	40	0.92	0.43	0.27	1.06



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Sample Description	Method Analyte Units LOR	ME-MS89L Ga ppm 0.5	ME-MS89L Gd ppm 0.03	ME-MS89L Ge ppm 0.5	ME-MS89L Ho ppm 0.01	ME-MS89L In ppm 0.3	ME-MS89L K % 0.05	ME-MS89L La ppm 0.08	ME-MS89L Li ppm 2	ME-MS89L Lu ppm 0.05	ME-MS89L Mn ppm 10	ME-MS89L Mo ppm 2	ME-MS89L Nb ppm 0.8	ME-MS89L Nd ppm 0.07	ME-MS89L Ni ppm 10	ME-MS89L Pb ppm 0.5
DUPLICATES																
B037		16.3	0.10	5.3	0.01	<0.3	0.81	2.01	8	<0.05	80	<2	15.1	1.04	10	1.6
DUP		16.1	0.15	3.5	0.02	<0.3	0.80	1.97	9	<0.05	100	<2	15.0	1.44	<10	2.0
Target Range - Lower Bound		14.9	0.09	3.7	<0.01	<0.3	0.71	1.81	6	<0.05	80	<2	13.5	1.11	<10	1.2
Upper Bound		17.5	0.16	5.1	0.02	0.6	0.90	2.17	11	0.10	100	4	16.6	1.37	20	2.4
B068		37.7	1.05	6.0	0.14	<0.3	1.74	5.53	157	0.07	300	<2	35.2	4.80	<10	5.2
DUP		37.9	1.00	5.7	0.15	<0.3	1.81	5.42	159	<0.05	290	<2	34.5	4.53	10	5.0
Target Range - Lower Bound		35.4	0.94	5.1	0.13	<0.3	1.64	5.12	148	<0.05	270	<2	32.3	4.36	<10	4.3
Upper Bound		40.2	1.11	6.6	0.16	0.6	1.91	5.83	168	0.10	320	4	37.4	4.97	20	5.9



## QC CERTIFICATE OF ANALYSIS AD17182210

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





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Finalized Date: 17-SEP-2017  
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**QC CERTIFICATE OF ANALYSIS AD17182210**

	CERTIFICATE COMMENTS														
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <table><tr><td>Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.</td><td></td></tr><tr><td>CRU-21</td><td>LEV-01</td></tr><tr><td>PUL-QC</td><td>WEI-21</td></tr><tr><td></td><td>LOG-22</td></tr><tr><td></td><td>PUL-23</td></tr></table> <table><tr><td>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</td><td></td></tr><tr><td>B-MS89L</td><td>ME-MS89L</td></tr></table>	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia.		CRU-21	LEV-01	PUL-QC	WEI-21		LOG-22		PUL-23	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		B-MS89L	ME-MS89L
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