



Australian Laboratory Services Pty. Ltd.

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Finalized Date: 8-MAR-2018

This copy reported on 14-MAR-2018

Account: TNTMIN

## QC CERTIFICATE BU18037339

Project: TNT\_272004\_190218

This report is for 135 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 20-FEB-2018.

The following have access to data associated with this certificate:

NICK CASTLEDEN

ROBERT REID

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
CRU-21	Crush entire sample >70% -6 mm
PUL-31b	Pulv. Lg split to >80% -75um
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	ICP-AES
ME-XRF15d	Sulphide BM Conc. by XRF	XRF
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: TNT MINES LTD  
ATTN: NICK CASTLEDEN  
SUITE 50  
NARABANG WAY  
BELROSE NSW 2085

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:

Ricky Gelston, Laboratory Manager, Burnie



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**QC CERTIFICATE OF ANALYSIS BU18037339**

Sample Description	Method Analyte Units LOR	ME-XRF15d	ME-XRF15d	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
		Sn	WO3	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>STANDARDS</b>																
CPB-2		0.02	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.03	0.04													
CZN-4		0.06	0.02													
Target Range - Lower Bound		0.03	<0.01													
Upper Bound		0.07	0.02													
GBM398-1																
Target Range - Lower Bound																
Upper Bound																
GBM908-10				2.9	7.32	57	1120	1.4	5	3.73	1.9	25	142	3520	5.46	20
GBM908-10				3.0	7.60	61	1160	1.4	<2	3.89	2.2	25	147	3680	5.74	20
Target Range - Lower Bound				1.8	6.40	43	930	<0.5	<2	3.36	0.6	23	125	3350	4.98	<10
Upper Bound				4.0	7.84	69	1280	2.5	5	4.12	2.8	30	155	3850	6.10	40
GBM915-10				14.4	7.84	491	250	1.1	3	3.53	3.3	146	70	866	14.15	20
GBM915-10				14.2	8.09	508	260	1.1	5	3.59	3.3	150	71	877	14.60	30
Target Range - Lower Bound				12.5	6.82	442	200	<0.5	<2	3.14	1.5	133	62	843	12.65	<10
Upper Bound				16.3	8.36	552	290	2.3	6	3.86	3.7	165	78	971	15.50	50
MRGeo08				4.4	7.78	36	1110	3.1	2	2.62	2.5	19	89	605	3.94	20
MRGeo08				4.4	6.67	37	1100	3.2	4	2.65	2.5	20	92	624	3.97	20
Target Range - Lower Bound				3.2	6.64	21	920	2.2	<2	2.35	1.1	17	81	586	3.55	<10
Upper Bound				5.7	8.14	45	1270	4.5	5	2.90	3.4	23	102	676	4.37	40
NBS-2430		<0.01	70.1													
NBS-2430		0.02	70.4													
NBS-2430		0.02	70.1													
Target Range - Lower Bound		<0.01	63.2													
Upper Bound		0.02	77.3													
NCSDC35002		62.8	0.22													
NCSDC35002		62.3	0.22													
NCSDC35002		62.4	0.22													
Target Range - Lower Bound		59.4	0.15													
Upper Bound		65.6	0.21													
NCSDC35009		0.98	<0.01													
Target Range - Lower Bound		0.87	<0.01													
Upper Bound		0.99	0.02													



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**QC CERTIFICATE OF ANALYSIS BU18037339**

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	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 %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
<b>STANDARDS</b>																
CPB-2																
Target Range - Lower Bound																
Upper Bound																
CZN-4																
Target Range - Lower Bound																
Upper Bound																
GBM398-1																
Target Range - Lower Bound																
Upper Bound																
GBM908-10		2.07	50	1.80	781	57	2.13	2290	1000	2050	0.37	<5	17	304	20	0.65
GBM908-10		2.17	50	1.90	823	59	2.26	2430	1050	2140	0.39	<5	18	318	20	0.68
Target Range - Lower Bound		1.87	20	1.61	715	57	1.93	2020	880	1840	0.33	<5	14	260	<20	0.59
Upper Bound		2.31	70	1.99	885	72	2.38	2470	1100	2260	0.43	12	20	320	60	0.74
GBM915-10		0.78	10	1.55	1055	8	1.57	316	770	253	0.29	16	21	150	20	0.95
GBM915-10		0.80	10	1.58	1075	8	1.60	326	820	262	0.30	20	21	153	20	0.95
Target Range - Lower Bound		0.68	<10	1.39	963	6	1.40	284	690	233	0.25	8	20	138	<20	0.85
Upper Bound		0.86	40	1.72	1190	10	1.74	350	870	289	0.33	33	27	171	60	1.06
MRGeo08		3.09	30	1.33	547	15	1.94	692	1060	1095	0.30	5	12	316	20	0.50
MRGeo08		3.11	20	1.25	564	15	2.03	729	1050	1115	0.31	<5	10	313	20	0.51
Target Range - Lower Bound		2.79	<10	1.17	497	12	1.76	621	930	969	0.27	<5	10	276	<20	0.44
Upper Bound		3.43	60	1.45	619	18	2.18	761	1160	1190	0.35	15	15	340	60	0.56
NBS-2430																
NBS-2430																
NBS-2430																
Target Range - Lower Bound																
Upper Bound																
NCSDC35002																
NCSDC35002																
NCSDC35002																
Target Range - Lower Bound																
Upper Bound																
NCSDC35009																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP61 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Zn-OG62 Zn % 0.001
<b>STANDARDS</b>							
CPB-2							
Target Range - Lower Bound							
Upper Bound							
CZN-4							
Target Range - Lower Bound							
Upper Bound							
GBM398-1							2.08
Target Range - Lower Bound							1.955
Upper Bound							2.10
GBM908-10		10	<10	138	<10	1050	
GBM908-10		<10	<10	145	<10	1110	
Target Range - Lower Bound		<10	<10	123	<10	939	
Upper Bound		20	20	153	20	1150	
GBM915-10		<10	<10	276	<10	927	
GBM915-10		<10	<10	276	<10	945	
Target Range - Lower Bound		<10	<10	253	<10	842	
Upper Bound		20	20	312	20	1035	
MRGeo08		<10	10	109	10	792	
MRGeo08		<10	10	113	<10	819	
Target Range - Lower Bound		<10	<10	97	<10	722	
Upper Bound		20	30	121	30	886	
NBS-2430							
NBS-2430							
NBS-2430							
Target Range - Lower Bound							
Upper Bound							
NCSDC35002							
NCSDC35002							
NCSDC35002							
Target Range - Lower Bound							
Upper Bound							
NCSDC35009							
Target Range - Lower Bound							
Upper Bound							



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Sample Description	Method Analyte Units LOR	ME-XRF15d	ME-XRF15d	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
		Sn	WO3	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.01	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
STANDARDS																
NCSDC70017		0.02	4.59													
Target Range - Lower Bound		<0.01	4.14													
Upper Bound		0.04	5.09													
OGGeo08				19.9	7.03	125	860	2.8	17	2.20	19.1	96	82	8130	5.31	20
OGGeo08				20.1	7.23	124	630	2.9	13	2.22	19.4	98	80	8360	5.38	20
Target Range - Lower Bound				17.7	6.07	102	700	1.8	6	1.98	16.2	86	78	7800	4.81	<10
Upper Bound				22.7	7.44	136	980	4.1	15	2.44	21.0	108	98	8980	5.91	40
OREAS 622		0.01	<0.01													
OREAS 622		0.02	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
OREAS 97																
Target Range - Lower Bound																
Upper Bound																
OREAS-133b																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	1	<1	<0.01	<10
BLANK				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK				<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	1	<1	<1	<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
Upper Bound				1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20
BLANK		<0.01	<0.01													
BLANK		<0.01	<0.01													
BLANK		<0.01	<0.01													
BLANK		<0.01	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
BLANK																
Target Range - Lower Bound																
Upper Bound																



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		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
<b>STANDARDS</b>																
NCSDC70017																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		2.88	30	1.25	499	935	1.82	8770	860	7350	2.81	27	10	258	20	0.40
OGGeo08		3.00	30	1.28	511	947	1.86	8940	890	7410	2.85	21	10	263	20	0.41
Target Range - Lower Bound		2.59	<10	1.11	447	841	1.62	8000	760	6510	2.51	14	8	223	<20	0.35
Upper Bound		3.19	60	1.38	557	1030	2.00	9770	950	7970	3.09	40	13	275	60	0.45
OREAS 622																
OREAS 622																
Target Range - Lower Bound																
Upper Bound																
OREAS 97																
Target Range - Lower Bound																
Upper Bound																
OREAS- 133b																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
BLANK		<0.01	<10	<0.01	<5	<1	<0.01	<1	10	<2	<0.01	<5	<1	1	<20	<0.01
BLANK		<0.01	<10	<0.01	<5	1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
BLANK		<0.01	<10	<0.01	<5	1	<0.01	<1	10	<2	<0.01	<5	<1	<1	<20	<0.01
Target Range - Lower Bound		<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
Upper Bound		0.02	20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP61 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Zn-OG62 Zn % 0.001
<b>STANDARDS</b>							
NCSDC70017							
Target Range - Lower Bound							
Upper Bound							
OGGeo08		<10	10	88	<10	7110	
OGGeo08		<10	<10	89	<10	7220	
Target Range - Lower Bound		<10	<10	77	<10	6500	
Upper Bound		20	30	97	30	7950	
OREAS 622							
OREAS 622							
Target Range - Lower Bound							
Upper Bound							
OREAS 97							0.067
Target Range - Lower Bound							0.060
Upper Bound							0.067
OREAS-133b							11.35
Target Range - Lower Bound							10.95
Upper Bound							11.75
<b>BLANKS</b>							
BLANK		<10	<10	<1	<10	<2	
BLANK		<10	<10	<1	<10	<2	
BLANK		<10	<10	<1	<10	<2	
BLANK		<10	<10	<1	<10	<2	
Target Range - Lower Bound		<10	<10	<1	<10	<2	
Upper Bound		20	20	2	20	4	
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK							0.001
Target Range - Lower Bound							<0.001
Upper Bound							0.002



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Sample Description	Method Analyte Units LOR	ME-XRF15d Sn %	ME-XRF15d WO3 %	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm
		0.01	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>DUPLICATES</b>																
711404		0.24	0.01	2.5	6.78	43	780	37.9	2	0.67	14.4	17	63	562	3.56	20
DUP		0.24	<0.01	2.4	6.62	39	750	35.7	4	0.63	13.8	16	60	533	3.43	20
Target Range - Lower Bound		0.22	<0.01	1.8	6.36	34	700	34.5	<2	0.61	12.9	15	57	527	3.31	<10
Upper Bound		0.26	0.02	3.1	7.05	48	830	39.1	4	0.69	15.3	18	66	568	3.68	30
711419				1.3	4.57	11	470	9.7	3	0.28	6.0	5	36	95	1.68	10
DUP				1.3	4.33	13	440	9.1	5	0.26	5.5	5	35	91	1.60	10
Target Range - Lower Bound				0.7	4.22	6	410	8.4	<2	0.25	5.0	4	33	89	1.55	<10
Upper Bound				1.9	4.68	18	500	10.4	6	0.29	6.5	6	38	97	1.73	20
711424		<0.01	<0.01													
DUP		<0.01	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
711439				0.6	6.16	31	580	9.3	2	0.16	0.6	9	48	49	2.34	20
DUP				0.6	5.97	42	580	9.3	<2	0.16	0.7	9	48	51	2.35	20
Target Range - Lower Bound				<0.5	5.75	30	530	8.3	<2	0.14	<0.5	8	45	47	2.22	<10
Upper Bound				1.0	6.38	43	630	10.3	4	0.18	1.0	10	51	53	2.47	30
711447		0.01	0.01													
DUP		0.01	0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
711454				0.5	8.27	233	870	20.6	2	0.20	0.5	14	62	76	3.87	20
DUP				0.5	7.92	220	840	20.3	<2	0.20	0.5	14	60	75	3.76	20
Target Range - Lower Bound				<0.5	7.68	210	780	18.9	<2	0.18	<0.5	12	57	72	3.61	<10
Upper Bound				1.0	8.51	243	930	22.0	4	0.22	1.0	16	65	79	4.02	30
711467		<0.01	<0.01													
DUP		<0.01	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
711474				<0.5	4.77	150	540	9.6	4	0.01	<0.5	1	35	32	1.40	10
DUP				<0.5	4.79	146	540	9.8	4	0.01	<0.5	1	35	33	1.39	10
Target Range - Lower Bound				<0.5	4.53	136	490	8.7	<2	<0.01	<0.5	<1	32	30	1.32	<10
Upper Bound				1.0	5.03	160	590	10.7	6	0.02	1.0	2	38	35	1.47	20





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## QC CERTIFICATE OF ANALYSIS BU18037339

Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	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 %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
DUPLICATES																
711404		3.53	30	1.07	637	<1	0.37	36	600	9	0.58	<5	10	75	20	0.37
DUP		3.38	30	1.04	601	<1	0.36	35	600	7	0.57	<5	10	72	<20	0.36
Target Range - Lower Bound		3.27	20	0.99	583	<1	0.34	33	560	6	0.54	<5	9	69	<20	0.34
Upper Bound		3.64	40	1.12	655	2	0.39	38	640	10	0.61	10	12	78	40	0.39
711419		2.42	30	0.49	548	1	0.06	16	620	9	0.44	<5	5	43	<20	0.22
DUP		2.27	30	0.46	521	1	0.06	15	580	10	0.42	<5	5	41	<20	0.20
Target Range - Lower Bound		2.22	20	0.44	503	<1	0.05	14	560	7	0.40	<5	4	39	<20	0.19
Upper Bound		2.47	40	0.51	566	2	0.07	17	640	12	0.46	10	6	45	40	0.23
711424																
DUP																
Target Range - Lower Bound																
Upper Bound																
711439		2.77	30	0.72	395	1	0.12	26	550	5	0.45	<5	9	55	<20	0.29
DUP		2.81	30	0.72	393	<1	0.12	27	570	5	0.46	<5	8	54	<20	0.30
Target Range - Lower Bound		2.64	20	0.67	369	<1	0.10	24	520	3	0.42	<5	7	51	<20	0.27
Upper Bound		2.94	40	0.77	419	2	0.14	29	600	7	0.49	10	10	58	40	0.32
711447																
DUP																
Target Range - Lower Bound																
Upper Bound																
711454		3.94	40	1.27	934	1	0.22	43	600	4	1.05	<5	13	82	20	0.22
DUP		3.86	30	1.22	911	<1	0.22	42	600	5	1.02	<5	12	80	<20	0.22
Target Range - Lower Bound		3.70	20	1.17	871	<1	0.20	39	560	<2	0.97	<5	11	76	<20	0.20
Upper Bound		4.11	50	1.32	974	2	0.24	46	640	7	1.10	10	14	86	40	0.24
711467																
DUP																
Target Range - Lower Bound																
Upper Bound																
711474		2.48	30	0.51	323	1	0.06	5	230	10	0.01	<5	6	36	<20	0.20
DUP		2.54	30	0.51	329	1	0.06	4	210	13	0.01	<5	6	37	<20	0.21
Target Range - Lower Bound		2.37	20	0.47	305	<1	0.05	3	200	9	<0.01	<5	5	34	<20	0.18
Upper Bound		2.65	40	0.55	347	2	0.07	6	240	14	0.02	10	7	39	40	0.23



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**QC CERTIFICATE OF ANALYSIS BU18037339**

Sample Description	Method Analyte Units LOR	ME-ICP61 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Zn-OG62 Zn % 0.001
<b>DUPLICATES</b>							
711404		<10	<10	71	40	261	
DUP		<10	<10	70	40	248	
Target Range - Lower Bound		<10	<10	66	30	240	
Upper Bound		20	20	75	50	269	
711419		10	<10	33	20	259	
DUP		<10	<10	31	20	242	
Target Range - Lower Bound		<10	<10	29	<10	236	
Upper Bound		20	20	35	30	265	
711424							
DUP							
Target Range - Lower Bound							
Upper Bound							
711439		10	<10	55	40	90	
DUP		10	<10	56	40	91	
Target Range - Lower Bound		<10	<10	52	30	84	
Upper Bound		20	20	59	50	97	
711447							
DUP							
Target Range - Lower Bound							
Upper Bound							
711454		<10	<10	82	20	108	
DUP		<10	<10	79	20	106	
Target Range - Lower Bound		<10	<10	75	<10	100	
Upper Bound		20	20	86	30	114	
711467							
DUP							
Target Range - Lower Bound							
Upper Bound							
711474		<10	<10	35	30	48	
DUP		<10	<10	34	30	48	
Target Range - Lower Bound		<10	<10	32	20	44	
Upper Bound		20	20	37	40	52	



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**QC CERTIFICATE OF ANALYSIS BU18037339**

Sample Description	Method Analyte Units LOR	ME-XRF15d Sn %	ME-XRF15d WO3 %	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm
		0.01	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>DUPLICATES</b>																
711489				0.8	6.85	180	670	12.8	2	0.15	11.2	11	53	148	2.70	20
DUP				0.8	6.74	174	650	12.4	3	0.15	10.7	10	51	148	2.62	20
Target Range - Lower Bound				<0.5	6.45	163	600	11.5	<2	0.13	9.9	9	48	142	2.52	<10
Upper Bound				1.0	7.14	191	720	13.7	4	0.17	12.0	12	56	154	2.80	30
711490		0.21	<0.01													
DUP		0.21	<0.01													
Target Range - Lower Bound		0.19	<0.01													
Upper Bound		0.23	0.02													
711509				<0.5	3.29	48	200	3.3	2	0.06	<0.5	4	23	21	0.72	10
DUP				<0.5	3.34	46	200	3.3	<2	0.06	<0.5	3	24	22	0.73	10
Target Range - Lower Bound				<0.5	3.14	40	180	2.6	<2	0.05	<0.5	2	21	20	0.68	<10
Upper Bound				1.0	3.49	54	230	4.0	4	0.07	1.0	5	26	23	0.77	20
711510		<0.01	<0.01													
DUP		<0.01	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
711524				<0.5	4.14	38	360	3.5	<2	0.18	3.8	6	34	13	1.56	10
DUP				<0.5	4.10	36	350	3.5	<2	0.18	3.7	6	33	12	1.56	10
Target Range - Lower Bound				<0.5	3.90	30	320	2.8	<2	0.16	3.1	5	31	11	1.47	<10
Upper Bound				1.0	4.34	44	390	4.2	4	0.20	4.4	7	36	14	1.65	20
ORIGINAL		<0.01	<0.01													
DUP		0.01	<0.01													
Target Range - Lower Bound		<0.01	<0.01													
Upper Bound		0.02	0.02													
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOR	ME-ICP61 K %	ME-ICP61 La ppm	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 %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
DUPLICATES																
711489		3.54	30	0.92	712	2	0.15	29	710	9	0.86	<5	9	73	<20	0.21
DUP		3.49	30	0.88	680	1	0.15	30	680	10	0.84	<5	9	73	<20	0.20
Target Range - Lower Bound		3.33	20	0.85	656	<1	0.13	27	650	7	0.80	<5	8	68	<20	0.18
Upper Bound		3.70	40	0.96	736	2	0.17	32	740	12	0.90	10	10	78	40	0.23
711490																
DUP																
Target Range - Lower Bound																
Upper Bound																
711509		1.04	20	0.20	93	1	0.02	12	280	28	0.09	<5	3	43	<20	0.19
DUP		1.05	20	0.20	97	1	0.02	12	270	27	0.09	<5	4	43	<20	0.20
Target Range - Lower Bound		0.98	<10	0.18	85	<1	<0.01	10	250	24	0.08	<5	2	40	<20	0.18
Upper Bound		1.11	30	0.22	105	2	0.03	14	300	31	0.10	10	5	46	40	0.21
711510																
DUP																
Target Range - Lower Bound																
Upper Bound																
711524		1.36	30	0.34	224	1	0.03	12	470	6	0.09	<5	5	57	<20	0.24
DUP		1.37	30	0.34	227	1	0.03	13	480	5	0.09	<5	5	56	<20	0.25
Target Range - Lower Bound		1.29	20	0.31	209	<1	0.02	11	440	3	0.08	<5	4	53	<20	0.22
Upper Bound		1.44	40	0.37	242	2	0.04	14	510	8	0.10	10	6	60	40	0.27
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 Ti ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Zn-OG62 Zn % 0.001
<b>DUPLICATES</b>							
711489		10	<10	58	20	442	
DUP		10	<10	55	20	427	
Target Range - Lower Bound		<10	<10	53	<10	411	
Upper Bound		20	20	60	30	458	
711490							
DUP							
Target Range - Lower Bound							
Upper Bound							
711509		<10	<10	21	10	49	
DUP		<10	<10	22	10	55	
Target Range - Lower Bound		<10	<10	19	<10	47	
Upper Bound		20	20	24	20	57	
711510							
DUP							
Target Range - Lower Bound							
Upper Bound							
711524		<10	<10	31	20	144	
DUP		<10	<10	31	20	142	
Target Range - Lower Bound		<10	<10	28	<10	134	
Upper Bound		20	20	34	30	152	
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL						3.74	
DUP						3.85	
Target Range - Lower Bound						3.70	
Upper Bound						3.89	



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**QC CERTIFICATE OF ANALYSIS BU18037339**

	CERTIFICATE COMMENTS
	<p style="text-align: center;"><b>ACCREDITATION COMMENTS</b></p> <p>NATA Accreditation covers the performance of this service but does not cover the performance of ALS Brisbane Sample Preparation. Corporate Accreditation No:825, Corporate Site No:818. Technical Signatory is Samantha Profke,ICPAES Supervising Chemist</p>
Applies to Method:	ME-ICP61 ME-OG62 Zn-OG62
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 116 Delta Street, Geebung, QLD 4034, Australia</p>
Applies to Method:	ME-ICP61 ME-OG62 Zn-OG62
Applies to Method:	Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia. CRU-21 LEV-01 ME-XRF15d PUL-31b PUL-QC WEI-21