



Australian Laboratory Services Pty. Ltd.

32 Shand Street  
Stafford  
Brisbane QLD 4053  
Phone: +61 7 3243 7222 Fax: +61 7 3243 7218  
www.alsglobal.com/geochemistry

ALS Brisbane is a NATA Accredited Testing Laboratory. Corporate Accreditation  
No: 825, Corporate Site No: 818.

To: **ALS METALLURGY PTY LTD**  
**ATF AMMTEC UNIT TRUST**  
**PO BOX 952**  
**BURNIE TAS 7320**

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Plus Appendix Pages  
Finalized Date: 30-AUG-2023  
Account: BURRE

## CERTIFICATE BU23197384

Project: A24204

P.O. No.: 24204076

This report is for 26 samples of Pulp submitted to our lab in Burnie, TAS, Australia on 19-JUL-2023.

The following have access to data associated with this certificate:

BURNIE ADMIN  
DEREK LU  
CAROLYNE SULLIVAN

TIMOTHY FIST  
DREW REDPATH  
SHENGLI ZHAO

DWAYNE GARDAM  
BEN SHEAHEN

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LOG-22	Sample login – Rcd w/o BarCode
WEI-21	Received Sample Weight

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ni-OG62	Ore Grade Ni – Four Acid	
ME-ICP81	ICP Fusion – Ore Grade	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES

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:

Shaun Kenny, Brisbane Laboratory Manager



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# CERTIFICATE OF ANALYSIS BU23197384

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. g 20	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
24204076		40	<0.5	0.08	<5	<10	<0.5	<2	0.04	<0.5	319	>10000	11	12.95	<10	<0.01
24204077		30	<0.5	0.06	<5	<10	<0.5	<2	0.03	<0.5	255	>10000	3	13.40	<10	<0.01
24204078		40	<0.5	0.06	<5	10	<0.5	<2	0.03	<0.5	244	>10000	5	12.60	<10	<0.01
24204079		40	<0.5	0.09	<5	<10	<0.5	<2	0.02	<0.5	384	>10000	7	17.70	<10	<0.01
24204080		30	<0.5	0.08	<5	<10	<0.5	<2	0.02	<0.5	308	>10000	3	18.20	<10	<0.01
24204081		30	<0.5	0.09	<5	<10	<0.5	<2	0.03	0.5	328	>10000	3	14.90	<10	<0.01
24204082		30	<0.5	0.16	<5	<10	<0.5	<2	0.02	<0.5	359	>10000	3	15.20	<10	<0.01
24204083		40	<0.5	0.08	<5	<10	<0.5	<2	0.03	<0.5	294	>10000	3	13.45	<10	<0.01
24204084		30	<0.5	0.11	<5	<10	<0.5	<2	0.03	<0.5	287	>10000	3	15.45	<10	<0.01
24204085		40	<0.5	0.08	<5	<10	<0.5	<2	0.03	<0.5	177	9770	2	12.10	<10	<0.01
24204086		40	<0.5	0.19	<5	<10	<0.5	<2	0.02	<0.5	217	>10000	4	16.00	<10	<0.01
24204087		30	<0.5	0.11	<5	<10	<0.5	<2	0.03	<0.5	198	>10000	6	13.80	10	<0.01
24204088		40	<0.5	0.09	<5	<10	<0.5	<2	0.03	<0.5	227	>10000	5	14.10	10	<0.01
24204089		40	<0.5	0.13	<5	<10	<0.5	<2	0.02	<0.5	270	>10000	5	19.35	10	<0.01
24204090		30	<0.5	0.06	<5	<10	<0.5	<2	0.02	<0.5	223	9150	4	15.65	<10	<0.01
24204091		40	<0.5	0.06	<5	<10	<0.5	<2	0.02	0.5	263	9530	6	24.7	10	<0.01
24204092		30	<0.5	0.06	<5	<10	<0.5	<2	0.03	0.5	223	9010	17	19.35	<10	<0.01
24204093		40	<0.5	0.05	<5	<10	<0.5	<2	0.02	<0.5	212	6790	9	18.20	<10	<0.01
24204094		40	<0.5	0.05	<5	<10	<0.5	<2	0.02	<0.5	213	8860	12	17.40	<10	<0.01
24204095		30	<0.5	0.04	<5	<10	<0.5	<2	0.01	0.5	237	8470	9	18.60	<10	<0.01
24204096		40	<0.5	0.04	<5	<10	<0.5	<2	0.01	<0.5	323	7070	10	21.8	<10	<0.01
24204097		40	<0.5	0.05	<5	<10	<0.5	<2	0.01	0.6	280	9200	10	18.35	10	<0.01
24204098		30	<0.5	0.04	11	<10	<0.5	<2	0.01	<0.5	313	5320	6	19.05	<10	<0.01
24204099		40	<0.5	0.04	<5	<10	<0.5	<2	0.01	0.5	301	7010	7	20.7	<10	<0.01
24204100		30	<0.5	0.03	6	10	<0.5	<2	0.01	0.5	270	5560	9	17.40	<10	<0.01
24204101		30	<0.5	0.06	<5	<10	<0.5	<2	0.01	<0.5	295	>10000	9	16.10	<10	<0.01



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## CERTIFICATE OF ANALYSIS BU23197384

Sample Description	Method Analyte Units LOD	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	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
24204076		<10	<10	21.1	665	2	<0.01	9080	10	7	0.04	56	1	1	<20
24204077		<10	<10	20.5	646	1	<0.01	7460	<10	5	0.03	49	1	1	<20
24204078		<10	<10	19.20	598	2	<0.01	7070	10	11	0.02	53	1	2	<20
24204079		<10	<10	18.70	667	3	<0.01	>10000	<10	17	0.02	75	1	1	<20
24204080		<10	<10	18.05	654	1	<0.01	9430	<10	3	0.02	68	1	2	<20
24204081		<10	<10	19.55	648	3	<0.01	>10000	<10	4	0.02	61	1	1	<20
24204082		<10	<10	18.50	688	3	<0.01	>10000	<10	2	0.02	137	1	3	<20
24204083		<10	<10	20.2	648	2	<0.01	9000	<10	5	0.02	52	1	3	<20
24204084		<10	<10	19.00	673	2	<0.01	8010	<10	<2	0.02	59	2	1	<20
24204085		<10	<10	21.0	691	1	<0.01	4440	<10	3	0.01	43	2	2	<20
24204086		<10	<10	20.1	672	1	<0.01	5630	<10	4	0.07	17	1	5	<20
24204087		<10	<10	21.4	681	1	<0.01	4950	<10	3	0.01	11	2	7	<20
24204088		<10	<10	21.3	655	2	<0.01	5950	20	5	0.01	10	1	5	<20
24204089		<10	<10	18.90	697	2	<0.01	6520	<10	3	0.01	17	2	6	<20
24204090		<10	<10	20.9	582	1	<0.01	6950	<10	2	0.01	10	1	6	<20
24204091		<10	<10	18.10	701	2	<0.01	6730	<10	8	0.01	14	1	6	<20
24204092		<10	<10	19.60	667	2	<0.01	5750	10	3	0.02	11	1	7	<20
24204093		<10	<10	19.45	660	1	<0.01	5370	<10	9	0.01	5	1	5	<20
24204094		<10	<10	19.80	654	1	<0.01	5370	10	4	0.01	13	1	5	<20
24204095		<10	<10	19.15	667	1	<0.01	6020	<10	30	0.02	11	1	5	<20
24204096		<10	<10	18.20	670	2	<0.01	8790	<10	5	0.01	10	1	3	<20
24204097		<10	<10	19.25	741	2	<0.01	7690	<10	49	0.02	9	1	4	<20
24204098		<10	<10	19.50	624	1	<0.01	8960	<10	11	0.02	6	1	3	<20
24204099		<10	<10	19.15	672	1	<0.01	6550	<10	22	0.01	7	1	4	<20
24204100		<10	<10	20.2	625	2	<0.01	6310	<10	25	0.02	6	1	2	<20
24204101		<10	<10	20.1	637	2	<0.01	7030	10	36	0.02	9	1	5	<20



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Sample Description	Method Analyte Units LOD	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ni-OG62	ME-ICP81
		Ti	U	V	W	Zn	Ni	Cr
		ppm	ppm	ppm	ppm	ppm	%	%
		10	10	1	10	2	0.001	0.01
24204076		<10	<10	16	<10	71		1.46
24204077		<10	<10	14	<10	65		1.26
24204078		<10	<10	16	<10	76		1.48
24204079		<10	<10	19	<10	103	1.170	1.89
24204080		<10	<10	22	<10	80		1.76
24204081		10	<10	24	<10	75	1.055	1.59
24204082		10	10	35	<10	116	1.085	3.14
24204083		<10	10	21	<10	75		1.42
24204084		<10	<10	37	<10	76		1.63
24204085		<10	<10	23	<10	79		
24204086		<10	<10	28	<10	91		1.50
24204087		<10	<10	25	<10	78		1.17
24204088		<10	<10	23	<10	93		1.46
24204089		<10	<10	32	<10	83		1.68
24204090		<10	<10	13	<10	63		
24204091		<10	<10	17	<10	68		
24204092		<10	<10	17	<10	60		
24204093		<10	<10	18	<10	55		
24204094		<10	<10	15	<10	62		
24204095		<10	<10	12	<10	71		
24204096		<10	<10	11	<10	54		
24204097		<10	<10	15	<10	96		
24204098		<10	<10	11	<10	54		
24204099		<10	<10	16	<10	70		
24204100		<10	<10	10	<10	83		
24204101		<10	<10	19	<10	102		1.36



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**CERTIFICATE OF ANALYSIS BU23197384**

**CERTIFICATE COMMENTS**

**ACCREDITATION COMMENTS**

Applies to Method:

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: Christopher Snowdon, ICPAES Reporting Chemist  
ME-ICP61 ME-OG62

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Brisbane located at 32 Shand Street, Stafford, Brisbane, QLD, Australia. Processed at ALS Brisbane Sample Preparation at 23 Pineapple Street, Zillmere, QLD, 4034, Australia  
ME-ICP61 ME-ICP81 ME-OG62 Ni-OG62

Applies to Method:

Processed at ALS Burnie located at 39 River Road, Burnie, TAS, Australia.  
LOG-22 WEI-21