BAUXITE & RARE EARTH ELEMENT ASSAY QAQC
Redacted & extracted from locked PDF certificate for BAUXITE & REE assays
BAUXITE QUALITY CONTROL CERTIFICATE "A4QC"

Australian Laboratory Services Pty. Ltd.
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To: ABX GROUP LTD
LEVEL 5,
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SYDNEY NSW 2000

QC CERTIFICATE BR23215621

Project: [redacted]
P.O. No.:
This report is for 1 sample of Bauxite submitted to our lab in Brisbane, QLD, Australia on 3-AUG-2023.
The following have access to data associated with this certificate:

MARK COOKSEY IAN LEVY NATHAN TOWNS	PAUL GLOVER CONNOR MAGUIRE	LEON HAWKER ABX TASMANIAN LAB

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-21	Pulverize entire sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF13n	Bauxite By fusion XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA

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SYDNEY NSW 2000

Project: [redacted]

QC CERTIFICATE OF ANALYSIS BR23215621

Sample Description	Method	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n
	Analyte	Al2O3	SiO2	Fe2O3	TiO2	BaO	CaO	Cr2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	SrO	V2O5
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
STANDARDS																
BAUX-CS5																
Target Range - Lower Bound																
Upper Bound																
BCS395		52.29	1.24	16.30	1.90	<0.01	0.05	0.06	0.01	0.01	<0.01	0.01	0.14	0.10	<0.01	0.04
Target Range - Lower Bound		51.77	1.12	15.80	1.82	<0.01	0.03	0.04	<0.01	<0.01	<0.01	<0.01	0.11	0.08	<0.01	0.03
Upper Bound		53.03	1.36	16.80	2.04	0.02	0.07	0.09	0.04	0.04	0.03	0.04	0.17	0.13	0.02	0.08
SARM-44		58.95	34.7	2.03	1.88	0.01	0.13	0.06	0.18	0.16	0.02	0.07	0.10	0.02	<0.01	0.08
Target Range - Lower Bound		58.12	33.9	1.94	1.73	<0.01	0.12	0.03	0.16	0.12	<0.01	0.06	0.08	<0.01	<0.01	0.05
Upper Bound		59.48	35.8	2.18	1.93	0.03	0.16	0.08	0.20	0.16	0.05	0.10	0.13	0.04	0.02	0.09
SRM-696		54.57	3.77	8.66	2.65	<0.01	0.01	0.03	0.01	0.01	<0.01	0.01	0.04	0.12	<0.01	0.07
Target Range - Lower Bound		53.86	3.57	8.37	2.50	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	0.12	<0.01	0.05
Upper Bound		55.14	4.01	9.03	2.78	0.02	0.04	0.07	0.03	0.03	0.02	0.03	0.07	0.18	0.02	0.10
BLANKS																
BLANK		<0.01	100.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Target Range - Lower Bound		<0.01	98.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Upper Bound		0.02	100.0	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
[redacted]		45.74	4.47	18.40	5.80	<0.01	0.01	0.07	0.01	0.07	0.02	0.01	0.05	0.19	<0.01	0.08
DUP		45.88	4.48	18.30	5.80	<0.01	0.01	0.06	0.01	0.07	0.02	<0.01	0.05	0.19	<0.01	0.08
Target Range - Lower Bound		45.57	4.38	18.15	5.65	<0.01	<0.01	0.05	<0.01	0.06	<0.01	<0.01	0.04	0.17	<0.01	0.07
Upper Bound		46.05	4.57	18.55	5.96	0.02	0.02	0.08	0.02	0.08	0.03	0.02	0.06	0.21	0.02	0.09

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SYDNEY NSW 2000

Project: [redacted]

QC CERTIFICATE OF ANALYSIS BR23215621

Sample Description	Method	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-GRA05
	Analyte	Zn	ZrO2	Total	LOI
	Units	%	%	%	%
	LOD	0.01	0.01	0.01	0.01
STANDARDS					
BAUX-CS5					21.16
Target Range - Lower Bound					20.78
Upper Bound					22.08
BCS395		<0.01	0.06	100.0	
Target Range - Lower Bound		<0.01	0.04	99.0	
Upper Bound		0.02	0.08	101.0	
SARM-44		0.03	0.06	100.0	
Target Range - Lower Bound		<0.01	0.03	99.0	
Upper Bound		0.05	0.08	101.0	
SRM-696		<0.01	0.14	100.0	
Target Range - Lower Bound		<0.01	0.11	99.0	
Upper Bound		0.02	0.17	101.0	
BLANKS					
BLANK		<0.01	<0.01	100.0	
Target Range - Lower Bound		<0.01	<0.01	99.0	
Upper Bound		0.02	0.02	101.0	
DUPLICATES					
ORIGINAL					24.76
DUP					24.69
Target Range - Lower Bound					24.10
Upper Bound					25.35
[redacted]		<0.01	0.06	99.98	
DUP		<0.01	0.06	100.0	
Target Range - Lower Bound		<0.01	0.05	99.5	
Upper Bound		0.02	0.07	100.5	

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Total # Appendix Pages: 1
Finalized Date: 7-AUG-2023
Account: AUSBAU

Project: [redacted]

QC CERTIFICATE OF ANALYSIS BR23215621

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. The Technical Signatory is James Lo, XRF Supervising Chemist ME-GRA05 ME-XRF13n

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 LEV-01 LOG-22 ME-GRA05 ME-XRF13n PUL-21 WEI-21

BAUXITE CERTIFICATE OF ANALYSIS "A4COA"

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Plus Appendix Pages
Finalized Date: 7-AUG-2023
Account: AUSBAU

CERTIFICATE BR23215621

Project: [redacted] Bauxite Project
P.O. No.: SSF 292396
This report is for 1 sample of Bauxite submitted to our lab in Brisbane, QLD, Australia on 3-AUG-2023.
The following have access to data associated with this certificate:

MARK COOKSEY IAN LEVY NATHAN TOWNS	PAUL CLOVER CONNOR MAGUIRE	LEON HAWKER ABX TASMANIAN LAB

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-21	Pulverize entire sample

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF13n	Bauxite By fusion XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA

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Plus Appendix Pages
Finalized Date: 7-AUG-2023
Account: AUSBAU

Project: [redacted] Bauxite Project

CERTIFICATE OF ANALYSIS BR23215621

Sample Description	Method	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-XRF13n
	Analyte	Al2O3	SiO2	Fe2O3	TiO2	BaO	CaO	Cr2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	SrO	V2O5
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
[redacted] Bauxite Project		45.74	4.47	18.40	5.80	<0.01	0.01	0.07	0.01	0.07	0.02	0.01	0.05	0.19	<0.01	0.08

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Total # Pages: 2 (A - B)
Plus Appendix Pages
Finalized Date: 7-AUG-2023
Account: AUSBAU

Project: [redacted] Bauxite Project

CERTIFICATE OF ANALYSIS BR23215621

Sample Description	Method	ME-XRF13n	ME-XRF13n	ME-XRF13n	ME-GRA05	WEI-21
	Analyte	Zn	ZrO2	Total	LOI	Recvd Wt.
	Units	%	%	%	%	kg
	LOD	0.01	0.01	0.01	0.01	0.02
[redacted] Bauxite Project		<0.01	0.06	99.98	24.99	0.25

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Total # Appendix Pages: 1
Finalized Date: 7-AUG-2023
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Project: [redacted] Bauxite Project

CERTIFICATE OF ANALYSIS BR23215621

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. The Technical Signatory is James Lo, XRF Supervising Chemist ME-GRA05 ME-XRF13n

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 LEV-01 LOG-22 ME-GRA05 ME-XRF13n PUL-21 WEI-21

RARE EARTH ELEMENTS QUALITY CONTROL CERTIFICATE "A4QC"

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Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 31-JUL-2023
Account: AUSBAU

QC CERTIFICATE BR23203753

Project: ABx REE

P.O. No.: SSF 292395

This report is for 1 sample of Bauxite submitted to our lab in Brisbane, QLD, Australia on 25-JUL-2023.

The following have access to data associated with this certificate:

MARK COOKSEY IAN LEVY NATHAN TOWNS	PAUL GLOVER CONNOR MAGUIRE	LEON HAWKER ABX TASMANIAN LAB

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize up to 250g 85% <75 um
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

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Project: ABx REE

QC CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05	0.1
STANDARDS																
CGL 208		1040	93.4	55	15.90	6.30	3.64	1.30	25.3	6.78	3.30	1.30	43.3	0.48	12.55	37.5
Target Range - Lower Bound		935	83.9	41	14.75	5.70	3.32	1.11	23.3	6.41	3.15	1.16	39.2	0.44	11.55	33.9
Upper Bound		1145	103.0	67	18.05	7.08	4.12	1.40	28.7	7.95	3.97	1.44	48.2	0.56	14.20	41.7
OREAS 460		851	1835	376	3.59	19.85	6.16	21.6	25.5	47.2	11.05	2.58	1345	0.56	691	819
Target Range - Lower Bound		727	1620	349	3.30	17.75	5.38	20.4	23.8	45.0	10.55	2.48	1230	0.46	628	739
Upper Bound		889	1980	437	4.06	21.8	6.64	25.0	29.3	55.1	13.05	3.06	1505	0.58	768	903
BLANKS																
BLANK		<0.5	<0.1	<5	<0.01	0.05	<0.03	0.02	<0.1	<0.05	<0.05	<0.01	<0.1	<0.01	<0.05	0.1
Target Range - Lower Bound		<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.05	<0.01	<0.1	<0.01	<0.05	<0.1
Upper Bound		1.0	0.2	10	0.02	0.10	0.06	0.04	0.2	0.10	0.10	0.02	0.2	0.02	0.10	0.2
DUPLICATES																
HP Water Sample		190.5	77.7	61	3.13	33.1	16.85	11.55	24.0	36.2	4.26	6.05	93.6	2.10	6.74	159.5
DUP		184.5	77.7	65	3.09	32.7	16.85	11.75	23.5	37.7	4.10	6.05	93.2	2.00	6.44	160.5
Target Range - Lower Bound		177.5	73.7	55	2.94	31.2	16.00	11.05	22.5	35.1	3.92	5.74	88.6	1.94	6.21	152.0
Upper Bound		197.5	81.7	71	3.28	34.6	17.70	12.25	25.0	38.8	4.44	6.36	98.2	2.16	6.97	168.0

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Project: ABx REE

QC CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05	0.1
STANDARDS																
CGL 208		1040	93.4	55	15.90	6.30	3.64	1.30	25.3	6.78	3.30	1.30	43.3	0.48	12.55	37.5
Target Range - Lower Bound		935	83.9	41	14.75	5.70	3.32	1.11	23.3	6.41	3.15	1.16	39.2	0.44	11.55	33.9
Upper Bound		1145	103.0	67	18.05	7.08	4.12	1.40	28.7	7.95	3.97	1.44	48.2	0.56	14.20	41.7
OREAS 460		851	1835	376	3.59	19.85	6.16	21.6	25.5	47.2	11.05	2.58	1345	0.56	691	819
Target Range - Lower Bound		727	1620	349	3.30	17.75	5.38	20.4	23.8	45.0	10.55	2.48	1230	0.46	628	739
Upper Bound		889	1980	437	4.06	21.8	6.64	25.0	29.3	55.1	13.05	3.06	1505	0.58	768	903
BLANKS																
BLANK		<0.5	<0.1	<5	<0.01	0.05	<0.03	0.02	<0.1	<0.05	<0.05	<0.01	<0.1	<0.01	<0.05	0.1
Target Range - Lower Bound		<0.5	<0.1	<5	<0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<0.05	<0.01	<0.1	<0.01	<0.05	<0.1
Upper Bound		1.0	0.2	10	0.02	0.10	0.06	0.04	0.2	0.10	0.10	0.02	0.2	0.02	0.10	0.2
DUPLICATES																
HP Water Sample		190.5	77.7	61	3.13	33.1	16.85	11.55	24.0	36.2	4.26	6.05	93.6	2.10	6.74	159.5
DUP		184.5	77.7	65	3.09	32.7	16.85	11.75	23.5	37.7	4.10	6.05	93.2	2.00	6.44	160.5
Target Range - Lower Bound		177.5	73.7	55	2.94	31.2	16.00	11.05	22.5	35.1	3.92	5.74	88.6	1.94	6.21	152.0
Upper Bound		197.5	81.7	71	3.28	34.6	17.70	12.25	25.0	38.8	4.44	6.36	98.2	2.16	6.97	168.0

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Project: ABx REE

QC CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	ME-MS81	ME-MS81
	Analyte	Yb	Zr
	Units	ppm	ppm
	LOD	0.03	1
STANDARDS			
CGL 208		3.13	125
Target Range - Lower Bound		2.99	117
Upper Bound		3.72	145
OREAS 460		3.62	473
Target Range - Lower Bound		3.49	424
Upper Bound		4.33	520
BLANKS			
BLANK		<0.03	<1
Target Range - Lower Bound		<0.03	<1
Upper Bound		0.06	2
DUPLICATES			
HP Water Sample		14.90	148
DUP		14.70	150
Target Range - Lower Bound		14.05	141
Upper Bound		15.55	157

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Project: ABx REE

QC CERTIFICATE OF ANALYSIS BR23203753

	CERTIFICATE COMMENTS			
	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 LEV-01 WEI-21	LOG-22	ME-MS81	PUL-31

RARE EARTH ELEMENTS CERTIFICATE OF ANALYSIS "A4COA"

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CERTIFICATE BR23203753

Project: ABx REE
P.O. No.: SSF 292395
This report is for 1 sample of Bauxite submitted to our lab in Brisbane, QLD, Australia on 25-JUL-2023.
The following have access to data associated with this certificate:

MARK COOKSEY IAN LEVY NATHAN TOWNS	PAUL GLOVER CONNOR MACUIRE	LEON HAWKER ABX TASMANIAN LAB

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize up to 250g 85% <75 um
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

Australian Laboratory Services Pty. Ltd.
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Stafford
Brisbane QLD 4053
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www.alsglobal.com/geochemistry

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LEVEL 5,
52 PHILLIP STREET
SYDNEY NSW 2000

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Project: ABx REE

CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Recvd Wt.	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
	Units	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.5	0.1	5	0.01	0.05	0.03	0.02	0.1	0.05	0.05	0.01	0.1	0.01	0.05
HP Water Sample		<0.02	190.5	77.7	61	3.13	33.1	16.85	11.55	24.0	36.2	4.26	6.05	93.6	2.10	6.74

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CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Nd	Pr	Rb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tm	U	V	W
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.1	0.02	0.2	0.5	0.03	0.5	0.1	0.1	0.01	0.05	0.01	0.01	0.05	5	0.5
HP Water Sample		159.5	34.0	36.1	47.7	42.2	2.2	28.8	0.5	5.68	4.55	0.39	2.20	1.04	198	1.9

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CERTIFICATE OF ANALYSIS BR23203753

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81
	Analyte	Y	Yb	Zr
	Units	ppm	ppm	ppm
	LOD	0.1	0.03	1
HP Water Sample		153.5	14.90	148

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CERTIFICATE OF ANALYSIS BR23203753

	CERTIFICATE COMMENTS			
	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 LEV-01 WEI-21	LOG-22	ME-MS81	PUL-31

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