



Australian Laboratory Services Pty. Ltd.
 32 Shand Street
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 Phone: +61 7 3243 7222 Fax: +61 7 3243 7218
 www.alsglobal.com/geochemistry

To: **COOK INDUSTRIAL MINERALS**
28 CUTLER ROAD
JANDAKOT WA 6164

Page: 1
 Total # Pages: 2 (A - B)
 Plus Appendix Pages
 Finalized Date: 8-FEB-2021
 Account: COOIND

CERTIFICATE PH21015793

This report is for 1 sample of Rock submitted to our lab in Perth, WA, Australia on 22-JAN-2021.
 The following have access to data associated with this certificate:
 BEN COOK

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
TRA-21	Transfer sample
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage
CRU-21	Crush entire sample
PUL-31h	Pulverize 750g to 85% < 75 um
BAG-21	Raw Sample in a new bag
CRU-31	Fine crushing - 70% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF26	Whole Rock By Fusion/XRF	XRF
ME-GRA05	H2O/LOI by TGA furnace	TGA

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:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS PH21015793

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-XRF26 Al2O3 %	ME-XRF26 BaO %	ME-XRF26 CaO %	ME-XRF26 Cr2O3 %	ME-XRF26 Fe2O3 %	ME-XRF26 K2O %	ME-XRF26 MgO %	ME-XRF26 MnO %	ME-XRF26 Na2O %	ME-XRF26 P2O5 %	ME-XRF26 SO3 %	ME-XRF26 SiO2 %
Sample 1		0.79	71.7	97.0	0.20	0.01	0.04	0.01	0.67	0.03	0.14	0.01	<0.01	0.01	0.03	98.33

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CERTIFICATE OF ANALYSIS PH21015793

Sample Description	Method Analyte Units LOD	ME-XRF26	ME-XRF26	ME-XRF26	ME-GRA05
		SrO	TiO2	Total	LOI
		%	%	%	%
Sample 1		<0.01	0.02	99.49	-0.02



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Sample Description	Method Analyte Units LOD	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26	ME-XRF26
		Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SO3	SiO2	SrO	TiO2	Total
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
		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	0.01	0.01
STANDARDS																
BCS-381		0.63	0.04	49.2	0.34	19.07	0.06	0.97	3.30	0.27	15.75	0.43	8.65	0.05	0.34	100.75
Target Range - Lower Bound		0.61	0.03	47.8	0.29	18.43	0.03	0.96	3.00	0.23	15.20	0.41	8.45	0.02	0.31	97.24
Upper Bound		0.73	0.08	50.2	0.37	19.61	0.08	1.10	3.32	0.29	16.20	0.53	9.11	0.06	0.39	101.20
SARM-4		16.67	0.02	11.65	0.01	9.03	0.25	7.64	0.19	2.57	0.01	0.01	53.07	0.03	0.20	101.50
Target Range - Lower Bound		15.97	<0.01	11.10	<0.01	8.63	0.22	7.20	0.15	2.33	<0.01	<0.01	51.39	<0.01	0.17	<0.01
Upper Bound		17.03	0.03	11.90	0.03	9.31	0.28	7.80	0.21	2.59	0.03	0.02	53.89	0.05	0.23	0.02
ST-392																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.01	0.01	<0.01	<0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	98.16	<0.01	0.01	98.22
Target Range - Lower Bound		<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	<0.01	<0.01
Upper Bound		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	0.02	0.02
DUPLICATES																
Sample 1		0.20	0.01	0.04	0.01	0.67	0.03	0.14	0.01	<0.01	0.01	0.03	98.33	<0.01	0.02	99.49
DUP		0.20	0.01	0.04	0.01	0.66	0.03	0.14	0.01	<0.01	0.01	0.03	98.23	<0.01	0.03	99.38
Target Range - Lower Bound		0.19	<0.01	0.03	<0.01	0.65	0.02	0.13	<0.01	<0.01	<0.01	0.02	96.80	<0.01	<0.01	98.43
Upper Bound		0.21	0.02	0.05	0.02	0.68	0.04	0.15	0.02	0.02	0.02	0.04	99.76	0.02	0.04	100.45

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Sample Description	Method Analyte Units LOD	
	ME-GRA05 LOI % 0.01	
		STANDARDS
BCS-381		
Target Range - Lower Bound		
Upper Bound		
SARM-4		
Target Range - Lower Bound		
Upper Bound		
ST-392	5.58	
Target Range - Lower Bound	5.35	
Upper Bound	5.71	
		BLANKS
BLANK		
Target Range - Lower Bound		
Upper Bound		
		DUPLICATES
Sample 1	-0.02	
DUP	-0.02	
Target Range - Lower Bound	-0.03	
Upper Bound	-0.01	



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QC CERTIFICATE OF ANALYSIS PH21015793

	CERTIFICATE COMMENTS																
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia</p> <table><tbody><tr><td>BAG-01</td><td>BAG-21</td><td>CRU-21</td><td>CRU-31</td></tr><tr><td>CRU-QC</td><td>LEV-01</td><td>LOG-22</td><td>ME-GRA05</td></tr><tr><td>ME-XRF26</td><td>PUL-31h</td><td>PUL-QC</td><td>SPL-22Y</td></tr><tr><td>TRA-21</td><td>WEI-21</td><td></td><td></td></tr></tbody></table>	BAG-01	BAG-21	CRU-21	CRU-31	CRU-QC	LEV-01	LOG-22	ME-GRA05	ME-XRF26	PUL-31h	PUL-QC	SPL-22Y	TRA-21	WEI-21		
BAG-01	BAG-21	CRU-21	CRU-31														
CRU-QC	LEV-01	LOG-22	ME-GRA05														
ME-XRF26	PUL-31h	PUL-QC	SPL-22Y														
TRA-21	WEI-21																