



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: MUNASH PTY LTD  
 MUNASH NATURAL FERTILISERS  
 560 BALLARAT-DAYLESFORD ROAD  
 BALLARAT VIC 3352

Page: 1  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 10-DEC-2022  
 This copy reported on 9-MAR-2023  
 Account: MUNASH

**CERTIFICATE BR21307964**

Project: Rock Dust

This report is for 2 samples of Rock submitted to our lab in Brisbane, QLD, Australia on 12-DEC-2022.

The following have access to data associated with this certificate:

REBECCA DJORDJEVIC

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SND-01	Send samples to external laboratory
LEV-01	Waste Disposal Levy
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
TRA-21	Transfer sample
PUL-31	Pulverize up to 250g 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
B-ICP69	Boron - HF Digest ICP-AES	ICP-AES
Ge-MS66	Ge by mixed acid, ICPMS	ICP-MS
EA-005	pH (1:5)	
ME-GRA05CE	LOI by CERES Furnace TGA System	HAG
ME-MS61	48 element four acid ICP-MS	
ME-XRF15b	Various elements in ores by fusion XRF	XRF
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:

Shaun Kenny, Brisbane Laboratory Manager



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**CERTIFICATE OF ANALYSIS BR21307964**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	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 %	ME-XRF26 SrO %	ME-XRF26 TiO2 %
Eco-Min Rockdust		0.24	13.98	0.04	4.59	0.01	7.26	2.78	3.81	0.11	3.33	0.32	0.01	62.22	0.04	1.16
Balance Rockdust		0.24	12.70	0.04	6.53	0.01	7.28	2.29	3.81	0.11	4.98	0.28	0.02	57.12	0.04	1.16

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



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**CERTIFICATE OF ANALYSIS BR21307964**

Sample Description	Method Analyte Units LOD	ME-XRF26	ME-GRA05	ME-MS42	B-ICP69	Ge-MS66	EA-005	PUL-QC	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Total %	LOI %	Hg ppm	B ppm	Ge ppm	pH Unity	Pass75um %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
Eco-Min Rockdust		100.20	0.42	<0.005	<10	2	9.2	92.6	0.10	6.89	1.7	280	2.98	1.79	3.15	0.11
Balance Rockdust		103.60	4.78	<0.005	10	1	9.0	96.1	0.03	6.32	1.4	270	3.33	0.77	4.45	0.09

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



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**CERTIFICATE OF ANALYSIS BR21307964**

Sample Description	Method Analyte Units LOD	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2 0.01	ME-MS61 Fe % 0.05 0.05 0.1	ME-MS61 Ga ppm 0.005 0.01	ME-MS61 Ge ppm 0.5 0.2 0.01 5	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm
Eco-Min Rockdust		45.9	26.7	105	19.10	38.8	4.83	19.75	0.20	3.3	0.098	2.13	22.3	78.7	2.09	801
Balance Rockdust		50.8	27.3	100	10.35	27.5	4.75	18.60	0.24	3.4	0.079	1.73	25.4	44.8	2.09	777

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**CERTIFICATE OF ANALYSIS BR21307964**

Sample Description	Method Analyte Units LOD	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm
Eco-Min Rockdust		1.42	2.32	25.2	91.0	1530	12.2	191.0	<0.002	0.01	0.05	11.9	<1	12.4	296	2.87
Balance Rockdust		1.13	3.45	23.3	88.8	1360	10.3	121.5	<0.002	0.01	0.07	12.3	<1	5.5	308	2.18



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**CERTIFICATE OF ANALYSIS BR21307964**

Sample Description	Method Analyte Units LOD	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	ME-XRF15b Cl % 0.005
Eco-Min Rockdust		<0.05	5.68	0.653	1.05	7.2	87	4.8	16.3	95	123.5	0.025
Balance Rockdust		<0.05	6.38	0.657	0.58	3.9	87	10.3	17.1	89	126.5	1.970



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<b>CERTIFICATE OF ANALYSIS BR21307964</b>
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	CERTIFICATE COMMENTS																
	<b>ANALYTICAL COMMENTS</b>																
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61																
	<b>ACCREDITATION COMMENTS</b>																
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 David Jones, ICPMS Supervising Chemist ME-MS42 ME-MS61																
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-XRF26																
	<b>LABORATORY ADDRESSES</b>																
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia B-ICP69																
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 <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ge-MS66</td> <td style="width: 33%;">LEV-01</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">ME-GRA05</td> </tr> <tr> <td>ME-GRA05CE</td> <td>ME-MS42</td> <td>ME-MS61</td> <td>ME-XRF15b</td> </tr> <tr> <td>ME-XRF26</td> <td>PUL-31</td> <td>PUL-QC</td> <td>SND-01</td> </tr> <tr> <td>TRA-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	Ge-MS66	LEV-01	LOG-22	ME-GRA05	ME-GRA05CE	ME-MS42	ME-MS61	ME-XRF15b	ME-XRF26	PUL-31	PUL-QC	SND-01	TRA-21	WEI-21		
Ge-MS66	LEV-01	LOG-22	ME-GRA05														
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ME-XRF26	PUL-31	PUL-QC	SND-01														
TRA-21	WEI-21																
Applies to Method:	Processed at Environmental BR Inorganic, Stafford, Queensland, Australia EA-005																