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## **ANALYSIS REPORT**

CLIENT: Eclips
TEST REQUEST: AS 44
ADDRESS: 40 St
CLIENT SAMPLE ID: Blows

AS 4454-2012 Test Methods B-G, I-J<sup>(1)</sup> 40 Subiaco Square Rd, Subiaco WA Blowable Aquamor Mulch (ES712) Abercrombie

LAB SAMPLE ID: 202
DATE RECEIVED: 21/
DATE TESTED: 21/
DATE REPORTED: 10/

**REPORT NO:** 

2024\_0648 2024\_0648 21/05/2024 21/05/24-10/06/24 10/06/2024

## **TEST RESULTS**

SAMPLING LOCATION:

Analyte	Result	Unit	<b>AS4454 Compliance Requirement</b>	
			Composted product	Mature compost
Electrical Conductivity	0.300	mS/cm	≤10	≤10
$pH({\rm H_2O})$	7.84		> 5	>5
$pH({\rm CaCl_2})$	7.28			
Ammonium-N (in extract)	0.59	mg/L	<200	<100
Ammonium-N (dry weight)	3.22	mg/kg		
Nitrate-N (in extract)	1.94	mg/L		
Nitrate-N (dry weight)	10.6	mg/kg	≥10 <sup>(2)</sup>	≥10 <sup>(2)</sup>
Total N (dry weight)	0.463	%	$\geq 0.8^{(2)}$	$\geq 0.8^{(2)}$
Phosphate-P (in extract)	0.658	mg/L	$\leq 5^{(3)}, <1^{(4)}$	$\leq 5^{(3)}, <1^{(4)}$
Phosphate-P (dry weight)	3.10	mg/kg		
Total P (dry weight)	0.0077	%	$\leq 0.1^{(3)}$	$\leq 0.1^{(3)}$
Carbon (dry weight)	43.1	%	≥ 20	≥ 20
C:N Ratio	93.3			
Organic Matter (dry weight)	73.3	%		
Calcium (dry weight)	16,000	mg/kg		
Magnesium (dry weight)	480	mg/kg		
Sodium (dry weight)	360	mg/kg	< 10 000	< 10 000
Potassium (dry weight)	170	mg/kg		
Chemical Contaminants <sup>(5)</sup>				
Cadmium	< 0.1	mg/kg	≤1	≤ 1
Chromium	1.5	mg/kg	≤ 100	≤ 100
Copper	<1	mg/kg	$\leq 150^{(6)}$	$\leq 150^{(6)}$
Lead	<1	mg/kg	≤ 150	≤ 150
Mercury	< 0.02	mg/kg	≤ 1	≤1
Nickel	1.1	mg/kg	≤ 60	≤ 60
Zinc	7.4	mg/kg	$\leq 300^{(6)}$	$\leq 300^{(6)}$



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## **TEST RESULTS**

Analyte	Result	Unit	AS4454 Compliance Requirement	
			Composted product	Mature compost
Phytotoxicity	98.3	Growth Index %	>70	>70
Apparent Density	0.315	kg/L		
Dry Bulk Density	0.216	kg/L		
Moisture content (as received)	45.9	%	25-80.1 (7)	25-80.1 <sup>(7)</sup>
Particle Size Grading				
• > 16mm	63.6	%		_
• > 5mm to < 16mm	23.0	%		
• < 5mm	13.4	%		
Physical Contaminants				
• glass, metal and hard plastic > 2mm	0	%	≤ 0.5	≤ 0.5
• light plastic, plastic film > 5mm	0	%	≤ 0.05	≤ 0.05
• stones and clods of clay >5mm	0	%	≤ 5	≤ 5

<sup>1)</sup> Appendix D includes the following parameters not tested by Bioscience Pty. Ltd.: boron, selenium, molybdenum, organohalides, chlorinated organic pesticides (OCPs), polychlorinated biphenyls (PCBs), and pathogens (Salmonella, Escherichia coli, thermotolerant coliforms).

(2) If a contribution to plant nutrition is claimed.

(6) A product that contains levels of total copper between 100-150 mg/kg and/or total zinc between 200-300 mg/kg (dry weight) whilst not exceeding the limit values, shall provide a warning label in accordance with the labelling requirements of Clause 5.3 of AS 4454-2012.

Analysis: Sample was processed and sampled in accordance with AS 4454-2012 Standards. Electrical conductivity, pH, Ammonium-N, Nitrate-N and Phosphate-P AS 4454-2012 Appendix B. Total N, Carbon, C:N Ratio calculation, Organic Matter calculation AS 4454-2012 Appendix C. Total P, calcium, magnesium, sodium, potassium, arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc AS 4454-2012 Appendix D. Phytotoxicity/Bioassay alternate method AS 4454-2012 Appendix F as per Zucconi et al. 1981. Wettability AS 4454-2012 Appendix E. Appendix E. Appendix J. Moisture content AS 4454-2012 Appendix I. Particle size grading AS 4454-2012 Appendix G. Contamination AS 4454-2012 Appendix I.

These results reflect our findings for the received sample only.

Tested by: SM HF GN Date: 10/06/2024

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<sup>(3)</sup> For products that claim to be for P-sensitive plants.

<sup>(4)</sup> If applied to sandy soils.

<sup>(5)</sup> Where there are no currently applicable federal and state or territory provisions for composts, soil conditioners and mulches, products shall comply with the list of chemical contaminant upper limit values and labelling provisions as listed here. Note: non-conformance with this Standard does not indicate that the product may not otherwise be suitable for a range of specified applications that comply with other state or territory government regulations, guidelines or specified end user requirements. (From AS 4454-2012 Clause 2.1).

<sup>(7)</sup> Maximum = % OM + 6, when OM > 40%; maximum = % OM + 10 when OM < 40%.