

ANALYSIS REPORT

CLIENT:	Eclipse Soils	REPORT NO:	2020-166
TEST REQUEST:	AS 4454 -2012 Test Methods B-G, I-J ⁽¹⁾	LAB SAMPLE ID:	2020-166
ADDRESS:	PO Box 474, Subiaco WA	DATE RECEIVED:	28-02-2020
CLIENT SAMPLE ID:	Aquamor mulch	DATE TESTED:	28-02-2020- 13-03-2020
SAMPLING LOCATION:	Abercrombie	DATE REPORTED:	17-03-2020

TEST RESULTS

Analyte	Result	Unit	AS4454 Compliance Requirement	Test Method
Electrical Conductivity	0.134	mS/cm	< 10	Appendix B of AS 4454-2012
pH	6.02		> 5	Appendix B of AS 4454-2012
Ammonium-N (in extract)	4.4	mg/L	< 200	Appendix B of AS 4454-2012
Ammonium-N (dry weight)	23.6	mg/kg		Appendix B of AS 4454-2012
Nitrate-N (in extract)	0.7	mg/L	≥ 10 ⁽²⁾	Appendix B of AS 4454-2012
Nitrate-N (dry weight)	3.4	mg/kg		Appendix B of AS 4454-2012
Total N (dry weight)	0.47	%	≥ 0.8 ⁽²⁾	Appendix C of AS 4454-2012
Phosphate-P (in extract)	0.03	mg/L	≤ 5 ⁽³⁾ , <1 ⁽⁴⁾	Appendix B of AS 4454-2012
Phosphate-P (dry weight)	0.14	mg/kg		Appendix B of AS 4454-2012
Total P (dry weight)	<0.01	%	< 0.1 ⁽³⁾	Appendix D of AS 4454-2012
Carbon (dry weight)	50.1	%	≥ 20	Appendix C of AS 4454-2012
C:N Ratio	108			Appendix C of AS 4454-2012
Organic Matter (dry weight)	88.7	%		Appendix C of AS 4454-2012
Calcium (dry weight)	5 817	mg/kg		Appendix D of AS 4454-2012
Magnesium (dry weight)	314	mg/kg		Appendix D of AS 4454-2012
Sodium (dry weight)	1 715	mg/kg	< 10 000	Appendix D of AS 4454-2012
Potassium (dry weight)	269	mg/kg		Appendix D of AS 4454-2012
Arsenic	1.69	mg/kg	≤ 20	Appendix D of AS 4454-2012
Cadmium	0.1	mg/kg	≤ 1	Appendix D of AS 4454-2012
Chromium	16.1	mg/kg	≤ 100	Appendix D of AS 4454-2012
Copper	1.2	mg/kg	≤ 150	Appendix D of AS 4454-2012
Lead	<0.01	mg/kg	≤ 150	Appendix D of AS 4454-2012
Mercury	<0.01	mg/kg	≤ 1	Appendix D of AS 4454-2012
Nickel	<0.01	mg/kg	≤ 60	Appendix D of AS 4454-2012
Zinc	6.52	mg/kg	≤ 300	Appendix D of AS 4454-2012

1) 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.

(3) For products that claim to be for P-sensitive plants.

(4) If applied to sandy soils.

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TEST RESULTS

Analyte	Result	Unit	AS4454 Compliance Requirement	Test Method
Phytotoxicity	-	Growth Index	≥ 60	Appendix F of AS 4454-2012
Wettability	-	minutes	< 7:00	Appendix E of AS 4454-2012
Apparent Density	0.46	kg/L		Appendix J of AS 4419-2012
Dry Bulk Density	0.29	kg/L		Appendix J of AS 4419-2012
Moisture content (as received)	39.5	%	25 - 94 ⁽⁵⁾	Appendix I of AS 4454-2012
Particle Size Grading				
• > 16mm	59.7	%		Appendix G of AS 4454-2012
• > 5mm to < 16mm	36.4	%		Appendix G of AS 4454-2012
• < 5mm	3.9	%		Appendix G of AS 4454-2012
Contamination				
• glass, metal and hard plastic > 2mm	0.0	%	≤ 0.5	Appendix I of AS 4454-2012
• light plastic, plastic film > 5mm	0.0	%	≤ 0.05	Appendix I of AS 4454-2012
• stones and clods of clay >5mm	0.0	%	≤ 5	Appendix I of AS 4454-2012

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

These results reflect our findings for the received sample only.

Tested by: MV, GM

Date:17/03/2020

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