

## ANALYTICAL REPORT

CLIENT:	Eclipse	REPORT NO:	2024_0171
TEST REQUEST:	AS 4419-2018 Landscaping Soils	LAB SAMPLE ID:	2024_0171
ADDRESS:	Level 2, Subiaco Square Rd, Subiaco WA	DATE RECEIVED:	23/02/2024
CLIENT SAMPLE ID:	Aquamor Soil Improver ES697	DATE TESTED:	23/02/24-12/03/24
SAMPLING LOCATION:	Abercrombie	DATE REPORTED:	12/03/2024

### TEST RESULTS

Analyte	Result	Unit	AS4419 Compliance Requirements (Landscaping Soils – on grade)
Electrical Conductivity	0.733	mS/cm	< 0.75 Low organic low phosphorus < 1.2 Low organic high phosphorus <1.75 Medium organic <2.5 High organic
pH(CaCl <sub>2</sub> )	7.08		4.5-6.0 Acid soils 6.1-7.5 Neutral soils 7.6-9.0 Alkaline soils
Bulk Density	1.01	kg/L	--
Soil Texture	Sandy Loam		--
Available P (dry weight)	23.6	mg/kg	< 30 Low organic low phosphorus 30-200 Low organic high phosphorus < 30 Medium organic low phosphorus 30-200 Medium organic high phosphorus <300 High organic
Total Carbon (dry weight)	4.93	%	--
Organic Matter (dry weight after correction for CaCO <sub>3</sub> )	8.39	%	3-5.9% Low organic <sup>(3)</sup> 6-14.9% Medium organic 15-25% High organic
Ammonium-N (dry weight)	40.3	mg/kg	--
Nitrate-N (dry weight)	7.2	mg/kg	--
Total available N (NO <sub>3</sub> + NH <sub>4</sub> )	47.5	mg/kg	>20 Low organic > 30 Medium organic low phosphorus >50 Medium organic high phosphorus >50 High organic
Large Particles > 20 mm	0	%	<2
Bioassay	114	% Growth Index	>80 <sup>(4)</sup>
Water repellence	<5 (water)		≤60s (water) or rating of ≤5 (ethanol)

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BIOSCIENCE PTY LTD ABN: 26 547 517 746  
488 NICHOLSON ROAD, FORRESTDALE WA 6112  
PO BOX 5466 CANNING VALE SOUTH WA 6155  
PHONE (08) 9397 2446, FAX (08) 9397 2447  
EMAIL [bioscience@biosciencewa.com](mailto:bioscience@biosciencewa.com)  
WEB [www.biosciencewa.com](http://www.biosciencewa.com)

Analysis: Sample was processed and sampled in accordance with AS 4419 Standards. Electrical conductivity and pH AS 4419-2018 Appendix D. Bulk density AS 4419-2018 Appendix B. Soil Texture AS 4419-2018 Appendix K. Sodium, potassium, calcium and magnesium Rayment & Lyons (2011) as per AS 4419-2018 5.4.2. Available P AS 4419-2018 Appendix F or G. Carbon and Organic Matter (Leco furnace) Calculation AS 4419-2018 5.6. Total available nitrogen (ammonium and nitrate) AS 4419-2018 Appendix E. Particle Size dry sieving as per AS 4419-2018 Table 1. Bioassay/Toxicity Modified method AS 4419-2018 Appendix I as per Zucconi et al. 1981. Water repellence AS 4419-2018 Appendix C(Paragraph C4.2).

- (1) No pre-treatment for soluble salts
- (2) Pre-treatment for soluble salts
- (3) All soils shall contain no less than 3% by mass of organic matter, except top dressings (AS4419-2018 5.6).
- (4) As per Zucconi et al (1981, 1985) GI values <50% indicate high phytotoxicity, 50-80% indicate moderate phytotoxicity, >80% indicate absence of phytotoxicity, >100% indicates phytonutrient/phytostimulation.

These results reflect our findings for the received sample only.

Tested by: SM HF TW GN

Date: 12/03/2024

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