

## ANALYTICAL REPORT

CLIENT:	Eclipse	REPORT NO:	2023_0811
TEST REQUEST:	AS 4419-2018 Structural Soil	LAB SAMPLE ID:	2023_0811
ADDRESS:	Level 2, Subiaco Square Rd, Subiaco WA	DATE RECEIVED:	12/09/2023
CLIENT SAMPLE ID:	Structural Soil 60mm AS 4419 ES 576	DATE TESTED:	12/09/23-29/09/23
SAMPLING LOCATION:	Abercrombie	DATE REPORTED:	29/09/2023

### TEST RESULTS

#### Structural Soil Support Lattice >4.75mm

Particle Size Distribution	% Passing	AS4419 Compliance Requirements
Structural Soil Support Lattice		
63.0 mm	100	100
53.0 mm	100	85 – 100
37.5 mm	89	20 – 65
26.5 mm	52	0 – 20
19.0 mm	20	0 – 5
13.2 mm	9	0 – 2
4.75 mm	5	0 – 1

#### Filler Soil <4.75mm

Analyte	Result	Unit	AS4419 Compliance Requirements
Structural Filler Soil			
Electrical Conductivity	0.62	mS/cm	<0.5
pH (CaCl <sub>2</sub> )	7.69		4.5-6.0 Acid soils 6.1-7.5 Neutral soils 7.6-9.0 Alkaline soils
Phosphorus (dry weight)	16.5	mg/kg	30-100
Total Carbon (dry weight)	3.74	%	
Organic Matter (dry weight after correction for CaCO <sub>3</sub> )	6.36	%	3-8
Available N (as nitrate) (dry weight)	127	mg/kg	>20
Water repellence	<1s Not significant	seconds	≤60s (water) or rating of ≤5 (ethanol)
Soil Structure	Sandy Loam	-	Loam to Clay

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. ECEC, sodium, potassium, calcium, magnesium, aluminium Rayment & Lyons (2011) as per AS 4419-2018 5.4.2. Phosphorus AS 4419-2018 Appendix F. Carbon and Organic Matter (Leco furnace) Calculation AS 4419-2018 5.6. Available nitrogen (nitrate) AS 4419-2018 Appendix E. Water repellence AS 4419-2018 Appendix C. Permeability McIntyre & Jakobsen (1998) method as per AS 4419-2018 Table 4. Particle Size Distribution as per AS 1141.11.1

These results reflect our findings for the received sample only.

Tested by: SM HF GN TW

Date: 29/09/2023

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