Multiple Analysis Profile

Sample Drop Off: 16 Chilvers Road
Thornleigh NSW 2120

Tel: 1300 30 40 80
Em: info@sesl.com.au
Web: www.sesl.com.au

Batch N°: 72957 **Sample N°: 2** **Date Report Generated: 31/07/2026** **Report Status: Final**

Client Name: **Centenary Landscaping Supplies**
Client Contact: **James McCullough**
Client Order N°:
Address: **26 Summers Rd**
Darra QLD 4076

Project Name: **Regular Compliance Testing**
SESL Quote N°: **2348**
Sample Name: **20260708-01UGAT**
Description: **Soil**
Test Type: **Texture_4419, BD_4419, TOC_AS, HC1_16, Wett_4419, Disp_4419, LP_SLD, ECEC_M3, PO4_Colwell, NO3_Sol, NH4_Sol, NDI_3743, S_M3, Cl_Sol, Fe_M3, Mn_M3, Zn_M3, Cu_M3, B_M3, Tox_4419, VC_SLD, EG020T (As, Cd, Cr, Cu, Ni,**

Analysis	Unit	Target range	Result
Physical Properties			
Texture	-	Sandy loam to clay loam	Loamy Sand
Dry Bulk Density	kg/L	0.8 - 1.3	1.1
Organic matter	% dwb	4 - 10	5.76
Air Filled Porosity (AFP)	%	≥ 10	No Test
Water-holding capacity	%	≥ 40 (pref ≥ 45)	No Test
Permeability (@16 drops)	mm/hr	≥ 50	1180
Wettability (AS4419)	mm/min	> 5	200
Dispersibility (AS4419)	category	1 or 2	4
Large Particles 2 - 20 mm	% w/w	< 25	25.5
Large particles > 20 mm	% w/w	< 5	<0.5
Reaction & Salinity			
pH (1:5 water)	pH units	5.5 - 7.5	6.87
Electrical Conductivity (1:5)	dS/m	< 0.9	0.64
ECEC	cmol(+)/kg	≥ 10 (≥ 8 accept.)	15.6
Cation balance			
Exchangeable Ca	% ECEC	60 – 80	62.5
Exchangeable Mg	% ECEC	15 – 25	19.2
Exchangeable K	% ECEC	5 – 10	10.8
Exchangeable Na	% ECEC	< 6	7.6
Ca : Mg ratio	ratio	3 – 9	3.3
Available nutrients			
Phosphorus (Colwell)	mg/kg	-	247
Total available N (NO_3 + NH_4)	mg/kg	≥ 50	<5
Ammonium-N (NH_4)	mg/kg	-	<0.05
Nitrogen Draw-Down Index	-	≥ 0.7	0.01
Available sulfur (S)	mg/kg	≥ 10	165
Chloride (Cl)	mg/kg	≤ 200	441
Iron (Fe)	mg/kg	100 – 400	309
Manganese (Mn)	mg/kg	25 – 100	120
Zinc (Zn)	mg/kg	5 – 30	8.36
Copper (Cu)	mg/kg	1 – 15	0.93
Boron (B)	mg/kg	0.5 – 5	0.88

Consultant:
Kate Tamlyn
31/07/2026

Authorised Signatory:
Owen Guy
31/07/2026

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Analysis	Unit	Target range	Result
Performance			
Bioassay	mm	> 70	79
Compost Maturity (NDI)	-	≥ 0.7	0.01
Visible Physical			
Glass/ plastic/ metal >2mm	% w/w	< 0.5	<0.05
Heavy Metals (44544)		**Upper Limits**	
Arsenic	mg/kg	20	3.3
Cadmium	mg/kg	1	<0.1
Zinc	mg/kg	300	30.2
Chromium	mg/kg	100	7.9
Copper	mg/kg	150	13
Lead	mg/kg	150	4
Mercury	mg/kg	1	<0.1
Nickel	mg/kg	60	5.6

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This soil sample was submitted to SESL to determine potential compliance with the clients UltraGrow Premium On-Grade Soil specification.

This soil is generally compliant with the specification with the exception of dispersibility, potassium, sodium, chloride, nitrogen, NDI, compost maturity and manganese. Copper and large particles are within the margin of error for the analysis.

- Irrigate heavily to leach salts down the profile.
- Apply Gypsum at 100 g/m^2 (or 1.0 kg/m^3 if stockpiled) and incorporate into the top 100 mm of soil to improve dispersion and ECEC.
- This soil is not suitable for phosphorus sensitive species
- Apply Urea at 0.1 kg/m^3 to improve nitrogen levels.
- Further composting of organic components is recommended of inputs to improve NDI and maturity.

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