Specification E1: OnSlab Soil Media 'A' Horizon

Sample Drop Off: 16 Chilvers Road
Thornleigh NSW 2120

Tel: 1300 30 40 80
Fax: 1300 64 46 89
Em: info@sesl.com.au
Web: www.sesl.com.au

Batch N°: 72305 **Sample N°: 2** **Date Received: 17/4/26** **Report Status: Final**

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

Project Name: **Podium Regular Testing**
SESL Quote N°:
Sample Name: **UltraGrow OSA**
Description: **Soil**
Test Type: **SLD_Spc_E1**

Physical Properties	Unit	Target Range	Results:	Comments
Texture	-	Gravelly loamy sand - Organic sandy loam	Loamy Sand	Acceptable
Air-filled Porosity	%	≥ 10	21	Acceptable
Water Holding Capacity	%	≥ 40	42.7	Acceptable
Permeability (@ 16 drops)	mm/hr	> 100	1200	Acceptable
Organic Matter	% w/w	< 15	11	Acceptable
Wettibility (AS4419)	min	≤ 5	0.06	Acceptable
DIspersibility	Category	1 or 2	4	High
Large Particles				
< 2 mm	% w/w	30 - 70	68.5	Acceptable
2 - 10 mm	% w/w	10 - 20	28.6	High
10 - 20 mm	% w/w	5 - 10	2.9	Low
20 - 50 mm	% w/w	< 5	<0.5	Acceptable
> 50 mm	% w/w	0	<0.5	Acceptable
Saturated Density	kg/L	< 2.4	1.3	Acceptable

Chemical Properties	Unit	Target Range	Results:	Comments
pH in water (1:1:5)	pH Units	5.4 - 6.8	6.82	Acceptable
Electrical Conductivity	dS/m	<2.2	0.65	Acceptable
Chloride	mg/L	≤ 200	117	Acceptable
Ammonium-N (NH_4)	mg/L	≤ 100	1.7	Acceptable
Ammonium-N + Nitrate-N (NH_4 + NO_3)	mg/L	≥ 50	<5.0	Low
Nitrogen Draw-Down Index	-	≥ 0.7	0.01	Low
Bioassay	mm	≥ 70	92	Acceptable
Phosphorus - P standard range	mg/L	8 - 40	7.1	Low
Low Phosphorus - P-Sensitive plant	mg/L	< 3	7.1	High
Potassium	mg/L	50 - 250	82	Acceptable
Sulphate (SO_4)	mg/L	> 40	24	Low
Calcium (Ca)	mg/L	≥ 80	77	Low
Magnesium (Mg)	mg/L	≥ 15	23.9	Acceptable
Ca : Mg Ratio	Ratio	1.5 - 10	3.2	Acceptable
K : Mg Ratio	Ratio	1 - 7	3.4	Acceptable

Consultant: Kate Tamlyn

Authorised Signatory: Owen Guy

Date Report Generated 4/05/2026

Tests are performed under a quality system certified as complying with ISO 9001: 2008. Results and conclusions assume that sampling is representative. This document shall not be reproduced except in full.

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Project Name: **Podium Regular Testing**
SESL Quote N°:
Sample Name: **UltraGrow OSA**
Description: **Soil**
Test Type: **SLD_Spc_E1**

Chemical Properties	Unit	Target Range	Results:	Comments
Sodium (Na)	mg/L	≤ 130	45	Acceptable
Iron (Fe)	mg/L	≥ 35	12.9	Low
Copper (Cu)	mg/L	0.4 - 15	0.303	Low
Zinc (Zn)	mg/L	0.3 - 10	1.2	Acceptable
Manganese (Mn)	mg/L	1 - 15	19.1	High
Boron (B)	mg/L	0.02 - 0.65	0.1	Acceptable

Ref:
Soils for landscape development: selection, specification and validation. Simon Leake and Elke Haege 2014

RECOMMENDATIONS

This sample was delivered to SESL for the purpose of testing and determine its suitability in accordance with *Leake and Haege (2014) Specification E1: On-Slab Soil Media A-Horizon.*

This soil does not comply with the specification for the following: dispersibility, large particles,nitrogen, nitrogen draw down, phosphorus, sulfate, calcium, iron, copper and manganese.

Recommendations
- Apply gypsum at 1.0 kg/m^3 to improve calcium, dispersibility and sulfate.
- Apply urea at 300 g/m^3 to increase nitrogen and improve NDI.
- This soil is not suitable for P sensitve species. For P-Tolerant species add single superphosphate (SSP) at 0.5 kg/m^3 .
- Iron is low monitor for any signs of deficiency apply iron sulfate at 0.2 kg/m^3. Note this may cause the pH to acidify. Re-test pH 2 weeks after application to ensure that pH is suitable.
- Apply copper sulfate at planting as per the manufacturers instruction to supplement copper micronutrients.

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