Specification E2: OnSlab Soil Media 'B' 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
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Batch N°: 72305 **Sample N°: 3** **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 OSB**
Description: **Soil**
Test Type: **SLD_Spc_E2**

Physical Properties	Unit	Target Range	Results:	Comments
Texture	-	Loamy sand - sandy loam	Loamy Sand	Acceptable
Air-filled Porosity	%	≥ 10	8.8	Low
Water Holding Capacity	%	≥ 40	42.8	Acceptable
Permeability (@ 16 drops)	mm/hr	> 100	574	Acceptable
Organic Matter	% w/w	< 5	5.7	High
Wettibility (AS4419)	min	≤ 5	0.02	Acceptable
DIspersibility	Category	1 or 2	4	High
Large Particles				
< 2 mm	% w/w	30 - 70	66.6	Acceptable
2 - 10 mm	% w/w	10 - 20	28.6	High
10 - 20 mm	% w/w	5 - 10	4.79	Low
20 - 50 mm	% w/w	< 5	<0.5	Acceptable
> 50 mm	% w/w	0	<0.5	Acceptable
Saturated Density	kg/L	< 2.4	1.5	Acceptable

Chemical Properties	Unit	Target Range	Results:	Comments
pH in water (1:1:5)	pH Units	5.4 - 6.8	7.18	Alkaline
Electrical Conductivity	dS/m	<2.2	0.83	Acceptable
Chloride	mg/L	≤ 200	145	Acceptable
Ammonium-N (NH_4)	mg/L	≤ 100	2	Acceptable
Ammonium-N + Nitrate-N (NH_4 + NO_3)	mg/L	≥ 50	<5.0	Low
Nitrogen Draw-Down Index	-	≥ 0.7	0.05	Low
Bioassay	mg/L	≥ 70	68	Low
Phosphorus	mg/L	8 - 40	5.4	Low
Low Phosphorus - P-Sensitive plant	mg/L	< 3	5.4	High
Potassium	mg/L	50 - 250	92	Acceptable
Sulphate (SO_4)	mg/L	> 40	37	Low
Calcium (Ca)	mg/L	≥ 80	103	Acceptable
Magnesium (Mg)	mg/L	≥ 15	29.4	Acceptable
Ca : Mg Ratio	Ratio	1.5 - 10	3.5	Acceptable
K : Mg Ratio	Ratio	1 - 7	3.1	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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Sample Name: **UltraGrow OSB**
Description: **Soil**
Test Type: **SLD_Spc_E2**

Chemical Properties	Unit	Target Range	Results:	Comments
Sodium (Na)	mg/L	≤ 130	61	Acceptable
Iron (Fe)	mg/L	≥ 35	9.51	Low
Copper (Cu)	mg/L	0.4 - 15	0.341	Low
Zinc (Zn)	mg/L	0.3 - 10	1.3	Acceptable
Manganese (Mn)	mg/L	1 - 15	13.1	Acceptable
Boron (B)	mg/L	0.02 - 0.65	0.107	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 B-Horizon*.

This soil does not comply with the specification for the following: Air-filled porosity, organic matter, dispersibility, large particles,nitrogen, nitrogen draw down, bioassay, phosphorus, sodium, iron, and copper.

Recommendations
- Air- filled porosity is low, consider replacing reducing the organic matter and increasing 20mm ash.
- pH is slightly high, apply iron sulfate at 0.5 kg/m^3 to decrease soil pH and improve iron
- Apply gypsum at 1.0 kg/m^3 to improve dispersibility and sulfate.
- The bioassay did not pass, likely due to the nitrogen draw down.
- 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 .
- Apply copper sulfate at planting as per the manufacturers instruction to supplement copper micronutrients.

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