



The B Horizon Mix performs well as a lower profile substrate in contained environments, below the Lightweight Planter Box Mix. It has been developed to work as the stable drainage media layer of an engineered profile. It provides enough nutrition for continued root growth while creating a stable substrate for long term volume.

The B Horizon Mix is compared to Leake and Haege (2014) Specification E2: On-Slab Soil Media B - Horizon. We use the standards as a tool and environmental compliant testing. Scapeworks Australia engages 'The Urban Soil Doctor' to undertake in-situ sample collection at the Scapeworks site.

May 2025 Test Results:

Pl	hysical Properties	Unit	Target Range	Results
Texture		n/a	Loamy Sand - Sandy Loam	Loamy Sand
Air-Filled Porosity		%	≥ 10	17.3
Water-Holding Capacity		%	≥ 40	43.5
Permeability (@16 Drops)		mm/hr	> 100	3750
Organic Matter		% w/w	<5	13.5
Wettability (AS4419)		min	≤5	>2minutes
Dispersibility		Category	1 or 2	2
. 2 mm		Category	30 - 70	46.7
Large Particle s	2 -10 mm	% ww	10 - 20	-
	10 - 20 mm		5 - 10	43.3
	20 - 50 mm		<5	_
	> 50 mm		0	0
Chemical Properties		Unit	Target Range	Results
pH in water (1:1:5)		pH units	5.4 - 6.8	7.07
Electrical Conductivity		dS/m	< 2.2	1.66
Chloride		mg/ L	≤ 200	322
Ammonium-N (NH4)		mg/ L	≤ 100	1.88
Ammonium-N + Nitrate-N (NH4 + NO3)		mg/ L	≥ 50	4.91
Nitrogen Draw-Down Index		-	≥ 0.7	0.06
Bioassay		mg/ L	≥ 70	94.3
Phosphorus		mg/ L	8 - 40	11.9
Low Phosphorus - P-Sensitive plant		mg/ L	< 3	11.9
Potassium		mg/ L	5 - 250	251
Sulphate (SO4)		mg/ L	> 40	66.2
Calcium (Ca)		mg/ L	≥ 80	138
Magnesium (Mg)		mg/ L	≥ 15	38.3
Ca:Mg Ratio		Ratio	1.5 - 10	3.59
K:Mg Ratio		Ratio	1 - 7	6.55
Sodium (Na)		mg/ L	≤ 130	143
Iron (Fe)		mg/ L	≥ 35	33.7
Copper (Cu)		mg/ L	0.4 - 15	0.29
Zinc (Zn)		mg/ L	0.3 - 10	2.48
Manganese (Mn)		mg/L	1-15	7.9
Boron (B)		mg/L	0.02-0.65	0.23
Additional Testing		Units	Target Range	Results
Saturated Density		kg/L	< 2.4	1.17
Dry Bulk Density		Kg/L	No Requirement	0.44
Asbestos Polarized Light Microscope and dispersion staining method.			Not Detected	No Detected



Scapeworks B Horizon tests as Grade A soil for unrestricted use.
The Urban Soil Doctor (TUSD) was requested by Scapeworks Australia to conduct in-situ sample collection at Scapeworks Australia's yard, also oversees, analyses and reports on products collected.
<a href="Mailto:Chantal Milner">CPSS Principal Soil Scientist</a>
BSc Env Sci, PGCert Green Infrastructure, CPSS