

Project Name: New Farm Forest
Project Code: NFF **Site ID:** DERR **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	27/02/97	Elevation:	70 metres
Map Ref.:	Sheet No. : 7022 1:10000	Rainfall:	No Data
Northing/Long.:	5840024 AMG zone: 54	Runoff:	No runoff
Easting/Lat.:	468602 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qpcp	Substrate Material:	Auger boring, 0.5 m deep, Slightly porous, Calcarene

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Chenier plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melacic Rudosolic Redoxic Hydrosol Loamy Non-gravelly Loamy Clayey Not recorded		Principal Profile Form:	N/A

ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Eucalyptus globulus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loam; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Common, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.2 - 0.4 m	Dark greyish brown (10YR4/2-Moist); , 10YR71, 10-20% , 5-15mm, Faint; Sandy loam; Single grain grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Moderately sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Substrate material, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2g	0.4 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); , 2.5Y44, 2-10% , 5-15mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
D1	0.7 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); , 10YR53, 10-20% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
D2	1.5 - 2 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Kalangadoo sand, Melacic, Rudosolic, Redoxic, Hydrosol, medium, non-gravelly, loamy, shallow, ripped and mounded, very good Globulus growth

Site Notes

DERRYMORE, SE SOUTH AUSTALIA, Kalangadoo sand, Melacic, Rudosolic, Redoxic, Hydrosol, medium, non-gravelly, loamy, shallow PHOTOS surface 76/21, 76/22

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile