

Project Name: New Farm Forest
Project Code: NFF **Site ID:** STR1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	26/02/97	Elevation:	50 metres
Map Ref.:	Sheet No. : 7122 1:10000	Rainfall:	No Data
Northing/Long.:	5826996 AMG zone: 54	Runoff:	No runoff
Easting/Lat.:	514455 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 2 m deep, Slightly porous, Eolian sand

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Chenier plain
Morph. Type:	Flat	Relief:	3 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Parapanic Humosequic Semiaquic Podzol Medium Non-gravelly Sandy Sandy Very deep	Mapping Unit:	N/A
		Principal Profile Form:	N/A

ASC Confidence:	No analytical data are available but confidence is fair.	Great Soil Group:	N/A
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Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Dark grey (10YR4/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.2 - 0.5 m	Grey (10YR5/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Chert, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
A2e	0.5 - 0.8 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Chert, coarse fragments; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Sharp, Irregular change to -
Bhs	0.8 - 1 m	Brown (7.5YR5/4-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10YR81, 10-20% , 5-15mm, Distinct; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, Conglomerate, coarse fragments; Many (20 - 50 %), Ferruginous-organic, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach); Sharp, Irregular change to -
Bhsm	1 - 1.1 m	Brown (7.5YR5/4-Moist); , 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 50-90%, coarse gravelly, 20-60mm, rounded, dispersed, Conglomerate, coarse fragments; Very many (50 - 100 %), Ferruginous-organic, Coarse (6 - 20 mm), Nodules; Ortstein, Strongly cemented, Continuous, Massive; Field pH 6.5 (Raupach);

Morphological Notes

Observation Notes

Nangawary Sand; Parapanic, Humosequic, Semiaquic, Podzol, medium, non-gravelly, sandy, sandy, very deep

Site Notes

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STRATHDOWNIE, SE SOUTH AUSTRALIA, Block 1, Treatment 6, Parapanic, Humosequic, Semiaquic, Podosol, medium, non-gravelly, sandy, sandy, very deep. PHOTO surface 76/3. better tree growth than Copes

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Laboratory Test Results:

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

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