

Project Name: New Farm Forest
Project Code: NFF **Site ID:** NAM1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	17/04/97	Elevation:	110 metres
Map Ref.:	Sheet No. : 8026 1:100000	Rainfall:	No Data
Northing/Long.:	6063565 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	387307 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1 m deep, Slightly porous, Colluvium

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Flat	Relief:	3 metres
Elem. Type:	Backplain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Vertic Mottled-Subnatric Red Sodosol Thick Non-gravelly Clay-loamy Clayey Deep		Principal Profile Form:	N/A

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

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Dark brown (7.5YR3/2-Moist); , 7.5YR44, 2-10% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.2 - 0.5 m	Brown (7.5YR4/2-Moist); , 7.5YR44, 10-20% , 0-5mm, Faint; Sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.5 - 0.7 m	Reddish brown (5YR4/4-Moist); , 5YR42, 10-20% , 5-15mm, Distinct; Medium clay; Moderate grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.7 - 0.9 m	Brown (10YR4/3-Moist); , 0-0% ; Medium clay; Moderate grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth
BCK	0.9 - 1.5 m	Brown (10YR4/3-Moist); , 5Y62, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Vertic, Mottled sub-natric, Red Sodosol, thick, non-gravelly, clay loamy, clayey, deep

Site Notes

NAMARANG, DENILQUIN, Photo surface 84/7, 84/8, Vertic, Mottled sub-natric, Red Sodosol, thick, non-gravelly, clay loamy, clayey, deep. Uneven irrigation and cut/fill causing uneven tree growth planted march 1996

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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