

**Project Name:** New Farm Forest  
**Project Code:** NFF **Site ID:** NOR **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b>	I. Hollingsworth	<b>Locality:</b>	
<b>Date Desc.:</b>	12/03/97	<b>Elevation:</b>	120 metres
<b>Map Ref.:</b>	Sheet No. : 7927 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6073631 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	353355 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Auger boring, 0.6 m deep,Porous, Alluvium

#### Land Form

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Prior stream	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Mesotrophic Brown Kandosol Medium Non-gravelly Clay-loamy Clayey Moderately deep		<b>Principal Profile Form:</b>	N/A

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

**Site Disturbance:** Cultivation. Irrigated, past or present

#### Vegetation:

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Callitris species

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.2 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to -
B2A	0.2 - 0.3 m	Yellowish red (5YR3/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Wet; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to -
B22	0.3 - 0.4 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Wet; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Wavy change to -
B3	0.4 - 0.6 m	Yellowish red (5YR4/8-Moist); , 7.5YR56, 2-10% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Wet; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 9 (Raupach); Gradual, Wavy change to -
C	0.6 - 1 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Very sticky; Field pH 10 (Raupach);

#### Morphological Notes

#### Observation Notes

planted 1993, irrigated with channel water (40", or 1m)

#### Site Notes

DENILQUIN, NORWOOD PARK, Photo surface 22 (leaf blister sawfly), 23 (scale), 24 (remnant cyprus pine), 25 (road surface).  
4 provenances of grandis, Sodic, Mesotrophic, Brown Kandosol; thick, non-gravelly, clay loamy, clayey, moderate

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