

**Project Name:** New Farm Forest  
**Project Code:** NFF      **Site ID:** WAT      **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>	110 metres
<b>Map Ref.:</b>	Sheet No. : 7925 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5981212 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	354556 Datum: AGD66	<b>Drainage:</b>	Poorly 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, 0.7 m deep, Slightly porous, Clay

#### Land Form

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	3 metres
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Vertic Sodosolic Redoxic Hydrosol Thin Non-gravelly Clay-loamy Clayey Moderately deep	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	N/A

<b>ASC Confidence:</b>	No analytical data are available but confidence is fair.	<b>Great Soil Group:</b>	N/A
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**Site Disturbance:** Cultivation. Irrigated, past or present

#### Vegetation:

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

#### Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 10YR62, 10-20% , 0-5mm, Faint; , 10YR56, 10-20% , 0-5mm, Faint; Clay loam; Massive grade of structure; Rough-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 7 (Raupach); Many, fine (1-2mm) roots; Sharp, Smooth change to -
B2g	0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); , 10YR71, 2-10% , 0-5mm, Distinct; Heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -
B21	0.2 - 0.4 m	Yellowish red (5YR5/6-Moist); , 10YR46, 10-20% , 5-15mm, Faint; Heavy clay; Moderate grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Wavy change to -
B22	0.4 - 0.7 m	Dark yellowish brown (10YR4/4-Moist); ; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (Raupach); Clear, Wavy change to -
C	0.7 - 1.5 m	Very dark greyish brown (2.5Y3/2-Moist); ; Light clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 9 (Raupach);

#### Morphological Notes

#### Observation Notes

Vertic, Sodosolic, Redoxic, Red Hydrosol; thin, non-gravelly, clay loamy, clayey, moderate

#### Site Notes

Shepparton Water board site. Photo surface 19 showing cracks and surface condition.

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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