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

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 10/03/97
Map Ref.: Sheet No. : 8026 1:100000
Northing/Long.: 6015754 AMG zone: 55
Easting/Lat.: 375580 Datum: AGD66
Locality:
Elevation: 110 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Poorly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.3 m deep,Slightly porous, Colluvium

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Mesotrophic Red Chromosol Medium Non-gravelly Clay-loamy Clayey Moderately 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

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

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR4/2-Moist); , 0-0% ; Fine sandy clay loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
B2g	0.2 - 0.4 m	Yellowish red (5YR4/6-Moist); , 10YR52, 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.4 - 0.7 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.7 - 1 m	Yellowish brown (10YR5/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Pumped groundwater @ 400uS/m planted 1994; Sodic, Mesotrophic, Red Chromosol, medium, non-gravelly, clay loamy, clayey, moderate

Site Notes

COBRAM, SHEPPARTON, Photos surface 78/12, 78/13, 78/14, 78/15, 78/16 Sodic, Mesotrophic, Red Chromosol, medium, non-gravelly, clay loamy, clayey, moderate, pumped groundwater @400us/m, planted 1994 3yrold

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Laboratory Test Results:

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

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