Project Name: **New Farm Forest**
Project Code: **NFF** **Site ID:** **CSI2** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 28/02/97
Map Ref.: Sheet No. : 7022 1:100000
Northing/Long.: 5822653 AMG zone: 54
Easting/Lat.: 480326 Datum: AGD66
Locality:
Elevation: 55 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, 1.7 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Flat
Elem. Type: Swale
Slope: 0 %
Pattern Type: Dunefield
Relief: 10 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Melanic Mesotrophic Brown Chromosol Medium Non-gravelly Sandy Clayey 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

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Moderate grade of structure, <2 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped 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	0.25 - 0.4 m	Brown (10YR5/3-Moist); , 0-0% ; Sand; Weak grade of structure, 2-5 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Subangular blocky; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.4 - 0.8 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/3-Dry); , 10YR81, 2-10% , 5-15mm, Faint; 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; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Sharp, Smooth change to -
B2g	0.8 - 1.2 m	Light olive brown (2.5Y5/4-Moist); , 5YR46, 2-10% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B2	1.2 - 1.7 m	Brownish yellow (10YR6/8-Moist); , 10YR54, 2-10% , 5-15mm, Distinct; , 7.5YR58, 2-10% , 5-15mm, Distinct; Sandy medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
C	1.7 - 2 m	Light yellowish brown (10YR6/4-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10YR71, 10-20% , 5-15mm, Distinct; Clayey sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

litter layer, no cultivation, swale in dune, clay B horizon

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Site Notes

CSIRO FORESTRY HEADQUARTERS SCRIMBER TRIAL, SOUTH EAST SA. Melanic, mesotrophic, Brown Chromosol, medium, non-gravelly, sandy, clayey, very deep

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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