

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

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	27/02/97	Elevation:	70 metres
Map Ref.:	Sheet No. : 7022 1:100000	Rainfall:	No Data
Northing/Long.:	5840782 AMG zone: 54	Runoff:	No runoff
Easting/Lat.:	493299 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qpcp	Substrate Material:	Auger boring, 0.5 m deep, Slightly porous, Lacustrine Sediment

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Chenier plain
Morph. Type:	Flat	Relief:	2 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Class Undetermined Rudosolic Redoxic Hydrosol Medium		Principal Profile Form:	N/A
Non-gravelly Sandy Not recorded Shallow			
ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Eucalyptus globulus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sand; Weak grade of structure, 2-5 mm, Granular; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.2 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 10YR58, 2-10% , 0-5mm, Faint; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
D1	0.4 - 0.5 m	Brown (10YR5/3-Moist); , 10YR58, 20-50% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
D1k	0.5 - 0.7 m	Brownish yellow (10YR6/6-Moist); , 10YR72, 2-10% , 5-15mm, Distinct; Medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
D2	0.7 - 1 m	Light grey (5Y7/1-Moist); , 10YR78, 2-10% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
D3	1 - 1.45 m	Light grey (5Y7/1-Moist); , 10YR78, 0-2% , 15-30mm, Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -

Project Name: New Farm Forest

Project Code: NFF

Site ID: HEAT

Observation ID: 1

Agency Name: CSIRO Division of Soils (SA)

Dk 1.45 - m ; Loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm²) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; Calcrete, Weakly cemented, Continuous, Massive; Field pH 8.5 (Raupach); Abrupt, Smooth change to -

Morphological Notes

Observation Notes

Nangawarry Sand, Rudosolic, Redoxic, Hydrosol (no appropriate sub-group), medium, non-gravelly, sandy, , shallow, ripped and mounded

Site Notes

HEATH, SE SOUTH AUSTRALIA, Very good tree growth; Nangawarry Sand, Rudosolic, Redoxic, Hydrosol (no appropriate sub-group), medium, non-gravelly, sandy, , shallow; PHOTO surface 75/5

Project Name:

New Farm Forest

Project Code:

NFF

Site ID:

HEAT

Observation ID:

1

Agency Name:

CSIRO Division of Soils (SA)

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

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

Laboratory Analyses Completed for this profile