

Project Name: New Farm Forest
Project Code: NFF **Site ID:** MAN **Observation ID:** 1
Agency Name: Conservation Commission of the Northern Territory

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	11/03/97	Elevation:	140 metres
Map Ref.:	Sheet No. : 7924 1:100000	Rainfall:	No Data
Northing/Long.:	5914488 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	337625 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Pediplain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Bleached Sodosolic Redoxic Hydrosol Medium Slightly gravelly Clay-loamy Clayey Moderately deep	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	Solodic soil
No analytical data are available but confidence is fair.		

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus microcarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Slightly sticky; Field pH 5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Slightly sticky; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
A2e	0.2 - 0.25 m	Light brownish grey (2.5Y6/2-Moist); White (2.5Y8/0-Dry); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded, stratified, Ferricrete, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
Bt	0.25 - 0.6 m	, 2.5Y44, 10-20% , 5-15mm, Faint; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 8.5 (Raupach); Gradual, Wavy change to -
C	0.6 - 0.9 m	, 2.5Y56, 10-20% , 15-30mm, Distinct; Clay loam, sandy; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Moderately sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Quartz sandstone, coarse fragments; 10-20%, medium gravelly, 6-20mm, rounded, Ferricrete, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7.5 (Raupach); Sharp, Smooth change to -
D	0.9 - 1.5 m	, 5Y46, 10-20% , 15-30mm, Prominent; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Field pH 7 (Raupach);

Morphological Notes

Project Name: New Farm Forest

Project Code: NFF

Site ID: MAN

Observation ID: 1

Agency Name: Conservation Commission of the Northern Territory

Observation Notes

Weathered granite alluvial substrate

Site Notes

Mangalore irrigated species trial. planted 1993, irrigated with 3 ML/day (70us/cm) as required. Bleached, Sodosolic, Redoxic, Hydrosol; medium, sl.gravelly, clay loamy, clayey, moderate. Photo surface No. 7

Project Name: New Farm Forest
Project Code: NFF Site ID: MAN Observation ID: 1
Agency Name: Conservation Commission of the Northern Territory

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: MAN Observation ID: 1
Agency Name: Conservation Commission of the Northern Territory

Laboratory Analyses Completed for this profile