

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

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	11/03/97	Elevation:	No Data
Map Ref.:	Sheet No. : 7925 1:100000	Rainfall:	No Data
Northing/Long.:	5977539 AMG zone: 55	Runoff:	No runoff
Easting/Lat.:	326307 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.7 m deep, Slightly porous, Clay

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Sodic Mesotrophic Red Chromosol Medium Non-gravelly Clay-loamy Clayey Moderately deep		Principal Profile Form:	N/A

ASC Confidence:		Great Soil Group:	N/A
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus saligna

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

O	0 - 0.02 m	Organic Layer; Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Many, fine (1-2mm) roots; Common, fine (1-2mm) roots; Few, fine (1-2mm) roots; Sharp, Smooth change to -
A1	0.02 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 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; Slightly sticky; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2e	0.05 - 0.1 m	Brown (7.5YR5/2-Moist); Pinkish grey (7.5YR7/2-Dry); , 7.5YR62, 10-20% , 5-15mm, Distinct; , 5YR42, 10-20% , 5-15mm, Distinct; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Slightly sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Sharp, Wavy change to -
B21	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); , 2.5YR44, 10-20% , 5-15mm, Faint; , 5YR42, 10-20% , 5-15mm, Faint; Medium clay; Strong grade of structure; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy
B22	0.2 - 0.3 m	Brown (7.5YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy change to -
B23	0.3 - 0.5 m	Dark yellowish brown (10YR4/4-Moist); , 0-0% ; Medium heavy clay; Moderate grade of structure; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 9 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy

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C 0.5 - 1.5 m Brown (7.5YR4/4-Moist); , 0-0% ; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Earthy fabric; Moderately moist; Moderately plastic; Normal plasticity; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 9 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Photo surface 16, 17, 18. Planted 1976, stopped irrigation in 1983. Same as Tatura soil.

Site Notes

SHEPPARTON KYABRAM; PHOTO 16, 17, 18; PLANTED 1976, STOPPED IRRIGATION IN 1983. SAME AT TATURA

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Laboratory Test Results:

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

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