

Project Name: New Farm Forest
Project Code: NFF **Site ID:** MEA1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 18/02/97	Elevation: 420 metres
Map Ref.: Sheet No. : 6627-1 1:100000	Rainfall: No Data
Northing/Long.: 6105241 AMG zone: 54	Runoff: Moderately rapid
Easting/Lat.: 297532 Datum: AGD66	Drainage: Moderately well 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, Schist

Land Form

Rel/Slope Class: Rolling hills 90-300m 10-32%	Pattern Type: Hills
Morph. Type: Crest	Relief: 60 metres
Elem. Type: Hillcrest	Slope Category: Gently inclined
Slope: 5 %	Aspect: 20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Mesotrophic Red Chromosol Medium Slightly gravelly	Principal Profile Form: N/A
Loamy Clayey Moderately deep	

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, Isolated plants. *Species includes - Eucalyptus species

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, angular, Quartz; 0-2%, cobbly, 60-200mm, rounded tabular, Ferricrete; 0-2%, cobbly, 60-200mm, angular, Schist

Profile Morphology

A1	0 - 0.06 m	Brown (10YR4/3-Moist); , 0-0% ; Fine sandy loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; 0-2%, cobbly, 60-200mm, angular, dispersed, Quartz, coarse fragments; 0-2%, cobbly, 60-200mm, rounded, dispersed, Ferricrete, coarse fragments; Field pH 5 (Raupach); Field pH 5 (pH meter); Abundant, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.06 - 0.2 m	Brown (10YR5/3-Moist); , 0-0% ; Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, Ferricrete, coarse fragments; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, Quartz, coarse fragments; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, Chert, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth
B21	0.2 - 0.3 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Smooth change to -
B22	0.3 - 0.5 m	Strong brown (7.5YR5/8-Moist); , 7.5YR82, 0-2% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Very sticky; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Irregular change to -
BC	0.5 - 0.7 m	Reddish yellow (7.5YR6/6-Moist); , 7.5YR82, 2-10% , 5-15mm, Distinct; Light clay; Massive grade of structure; Rough-ped fabric; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Very sticky; 2-10%, cobbly, 60-200mm, angular, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Clear, Irregular change to -

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C	0.7 - 1 m	White (5YR8/1-Moist); , 5YR68, 0-2% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Moderately plastic; Normal plasticity; Very sticky; 50-90%, cobbly, 60-200mm, angular, dispersed, Schist, coarse fragments; Field pH 5.5 (Raupach);
Cr	1 - m	; Moderately moist; Field pH 5.5 (Raupach);

Morphological Notes

Observation Notes

Litter layer, closed canopy, no ground cover, 8 yr old E. globulus plantation.

Site Notes

MEADOWS, SOUTHERN MT LOFTY RANGES, Handisides property, hillcrest E. globulus (903) logged as meadow1

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Laboratory Test Results:

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

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

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