

Project Name: New Farm Forest
Project Code: NFF **Site ID:** CUD1 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	20/02/97	Elevation:	500 metres
Map Ref.:	Sheet No. : 6628-II 1:50000	Rainfall:	No Data
Northing/Long.:	6137188 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	300729 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:	Simple-slope	Relief:	60 metres
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	20 %	Aspect:	20 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Chromosol Medium Gravelly 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: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, rounded tabular, Quartz; 10-20%, medium gravelly, 6-20mm, rounded tabular, Schist

Profile Morphology

A1	0 - 0.15 m	Brown (7.5YR4/4-Moist); , 0-0% ; Loam; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersed, Schist, coarse fragments; Field pH 6 (Raupach); Many, medium (2-5mm) roots; Clear, Wavy change to -
B1	0.15 - 0.3 m	Reddish yellow (7.5YR6/6-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Dry; Very plastic; Normal plasticity; Non-sticky; 20-50%, coarse gravelly, 20-60mm, rounded tabular, dispersed, Schist, coarse fragments; Field pH 5.5 (Raupach); Common, medium (2-5mm) roots; Clear, Wavy change to -
B21	0.3 - 0.4 m	Yellowish red (5YR5/6-Moist); , 0-0% ; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Moderately sticky; 2-10%, medium gravelly, 6-20mm, rounded tabular, dispersed, Schist, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Common, medium (2-5mm) roots; Clear, Wavy change to -
B22	0.4 - 0.5 m	Yellowish red (5YR4/8-Moist); , 0-0% ; Medium clay; Moderate grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; 10-20%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Common, medium (2-5mm) roots; Clear, Irregular change to -
BC	0.5 - 0.7 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light medium clay; Weak grade of structure, <2 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; 20-50%, coarse gravelly, 20-60mm, angular tabular, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 6 (Raupach); Few, medium (2-5mm) roots; Clear, Irregular change to -
Cr	0.7 - 1 m	Reddish yellow (7.5YR7/6-Moist); , 0-0% ; Light clay; Massive grade of structure; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Very plastic; Normal plasticity; Slightly sticky; 20-50%, coarse gravelly, 20-60mm, angular tabular, dispersed, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, medium (2-5mm) roots;

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Morphological Notes

Observation Notes

B1 HORIZON, ALOT OF ROCK

Site Notes

CUDLEE CREEK, SPRINGKELD HARDWOOD SPECIES TRIAL 1987, Haplic, Mesotrophic, Red, Chromosol; Medium, gravelly, loamy, clayey, moderate

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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

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Laboratory Analyses Completed for this profile