

Project Name: New Farm Forest
Project Code: NFF **Site ID:** GUM2 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	19/02/97	Elevation:	380 metres
Map Ref.:	Sheet No. : 6628-11 1:50000	Rainfall:	No Data
Northing/Long.:	6144559 AMG zone: 54	Runoff:	Rapid
Easting/Lat.:	303137 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.9 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:	35 %	Aspect:	140 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Chromosol Thick Slightly 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: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular tabular, Schist

Profile Morphology

A1	0 - 0.4 m	Dark reddish grey (5YR4/2-Moist); , 0-0% ; Loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; Field pH 6.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
Bt	0.4 - 0.9 m	Yellowish red (5YR4/6-Moist); , 0-0% ; Light clay; Moderate grade of structure, <2 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; 2-10%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots; Clear, Irregular change to -
Cr	0.9 - 1.1 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Clay loam; Weak grade of structure, <2 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, medium gravelly, 6-20mm, angular tabular, dispersed, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 6.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

more acid profile than GUM1

Site Notes

GUMERACHA, BENNETS BLOCK, MT LOFTY RANGES.

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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