

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

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	07/03/97	Elevation:	400 metres
Map Ref.:	Sheet No. : 6728-4 1:50000	Rainfall:	550
Northing/Long.:	6177398 AMG zone: 54	Runoff:	Very slow
Easting/Lat.:	329780 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.2 m deep, Slightly porous, Schist

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Valley flat	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mottled-Subnatric Brown Sodosol Thick Slightly gravelly Loamy Clayey 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:

Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, rounded, Ferricrete

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 0-2%, medium gravelly, 6-20mm, subrounded tabular, dispersed, Schist, coarse fragments; Field pH 5.5 (Raupach); Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.2 m	Brown (10YR4/3-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2e	0.2 - 0.5 m	Brown (10YR5/3-Moist); , 10YR72, 10-20% , 5-15mm, Distinct; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Non-plastic; Normal plasticity; Non-sticky; 10-20%, coarse gravelly, 20-60mm, rounded, stratified, Ferricrete, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Sharp, Tongued change to -
B2	0.5 - 0.7 m	Dark yellowish brown (10YR4/4-Moist); , 7.5YR53, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Rough-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Schist, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; Field pH 8 (Raupach); Few, fine (1-2mm) roots; Clear, Wavy change to -
BC	0.7 - 1.2 m	Yellowish brown (10YR5/6-Moist); , 7.5YR53, 10-20% , 5-15mm, Distinct; , 10YR62, 10-20% , 5-15mm, Distinct; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Moderately plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Schist, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 9 (Raupach); Clear, Irregular change to -

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C 1.2 - m ; Massive grade of structure; Earthy fabric; Few (<1 per 100mm²) Fine (1-2mm) macropores,
Dry; Slightly plastic; Normal plasticity; Slightly sticky; 50-90%, coarse gravelly, 20-60mm,
angular tabular, dispersed, Schist, coarse fragments; Field pH 9 (Raupach);

Morphological Notes

Observation Notes

Formed in deep weathered cambrian mica schist, Bill Evans property, opposite R. Fitzpatrick's Keyneton study site. Dark organic staining (pseudogley) at the top of the B2, sporadic bleach in the A2e.

Site Notes

KEYNETON, NORTHERN MT LOFTY RANGES; E. grandis, E. camaldulensis, dryland planting 1988. Photos surface 78/7-landscape, 78/8, 78/9, 78/10

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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