

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 303 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 08/08/91	Elevation: 450 metres
Map Ref.: 1:10000	Rainfall: No Data
Northing/Long.: 6150740 AMG zone: 54	Runoff: Rapid
Easting/Lat.: 312350 Datum: AGD66	Drainage: Well drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Auger boring, 1 m deep, Clay

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%	Pattern Type: Hills
Morph. Type: Mid-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: Moderately inclined
Slope: 6 %	Aspect: 90 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Chromosol	Principal Profile Form: Gn2.64
ASC Confidence:	Great Soil Group: Lateritic podzolic soil
Confidence level not specified	

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - , , . *Species includes - Astroloma conostephioides, Spyridium parvifolium
 Mid Strata - , , . *Species includes - Acacia pycnantha
 Tall Strata - , , . *Species includes - Eucalyptus fastigata

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subrounded, Ferricrete

Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Loose consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed moderately strong, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
AB	0.05 - 0.1 m	Brown (7.5YR4/2-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed moderately strong, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.1); Common, very fine (0-1mm) roots;
AB	0.1 - 0.25 m	Brown (7.5YR5/4-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed moderately strong, Porcellanite, coarse fragments; Field pH 6 (Raupach, 0.15); Common, very fine (0-1mm) roots; Gradual change to -
BA	0.25 - 0.3 m	Strong brown (7.5YR5/6-Moist); , ; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.25); Common, very fine (0-1mm) roots; Gradual change to -
B	0.3 - 0.5 m	Strong brown (7.5YR5/8-Moist); , 2-10% , Faint; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.4); Common, very fine (0-1mm) roots; Gradual change to -
BC	0.5 - 0.75 m	Strong brown (7.5YR5/8-Moist); , 2-10% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C	0.75 - 0.8 m	White (10YR8/2-Moist); , 10-20% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.8); Few, very fine (0-1mm) roots;

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Observation Notes

Site Notes

Morphological Notes

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Laboratory Test Results:

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

[illegible]

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		
m		g/g - m3/m3						mm/h	mm/h

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Laboratory Analyses Completed for this profile