

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 287 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	06/08/91	Elevation:	485 metres
Map Ref.:	Sheet No. : 6628-26 1:10000	Rainfall:	No Data
Northing/Long.:	6152640 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	311180 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.5 m deep, Schist

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	5 %	Aspect:	60 degrees

Surface Soil Condition (dry): Firm

Erosion: Active, Minor or present (wind);

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Chromosol	Principal Profile Form:	Dy4.11
ASC Confidence:	Great Soil Group:	Red podzolic soil
Confidence level not specified		

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

- Low Strata - Tree, 0.51-1m, Sparse. *Species includes - Xanthorrhoea species
- Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia pycnantha
- Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Pinus radiata

Surface Coarse Fragments: 2-10%, stony, 200-600mm, subrounded, Schist

Profile Morphology

A1	0 - 0.1 m	Reddish grey (5YR5/2-Moist); , 0-0% ; Coarse sandy loam; Strong grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots;
A1	0.1 - 0.2 m	Reddish grey (5YR5/2-Moist); , 0-0% ; Coarse sandy loam; Strong grade of structure, <2 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.15); Common, very fine (0-1mm) roots; Abrupt change to -
Bt	0.2 - 0.3 m	Light reddish brown (5YR6/4-Moist); , 0-0% ; Coarse sandy clay; Moderate grade of structure, <2 mm, Subangular blocky; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.25); Few, very fine (0-1mm) roots; Clear change to -
BC	0.3 - 0.5 m	Reddish yellow (5YR6/6-Moist); ; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.35); Few, very fine (0-1mm) roots;
BC	0.5 - 0.55 m	Reddish yellow (5YR6/6-Moist); ; Light clay; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.52); Few, very fine (0-1mm) roots;
C	0.55 - 0.8 m	, 2-10% , Prominent; Clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.7);

Morphological Notes

Observation Notes

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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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile