

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 294 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	06/08/91	Elevation:	435 metres
Map Ref.:	Sheet No. : 6628-26 1:10000	Rainfall:	No Data
Northing/Long.:	6152130 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	311950 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.1 m deep,Porous, Clay

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Footslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	90 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.82
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Closed or dense. *Species includes - Pinus radiata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
A2	0.1 - 0.3 m	Light grey (10YR7/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.2); Common, very fine (0-1mm) roots;
A2	0.3 - 0.4 m	Light grey (10YR7/2-Moist); , 0-0% , Faint; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.35); Common, very fine (0-1mm) roots; Abrupt change to -
Btw	0.4 - 0.5 m	Yellowish brown (10YR5/6-Moist); , 2-10% , Faint; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6.5 (Raupach, 0.45); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.5 - 0.9 m	Light yellowish brown (10YR6/4-Moist); , 2-10% , Distinct; Heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 7 (Raupach, 0.7); Few, very fine (0-1mm) roots; Clear change to -
BC	0.9 - 1 m	Light yellowish brown (10YR6/4-Moist); , 2-10% , Distinct; Heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 7 (Raupach, 0.95);

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 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