

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 233 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/07/91	Elevation:	535 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6161460 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	314035 Datum: AGD66	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	10 %	Aspect:	60 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.51
ASC Confidence:		Great Soil Group:	Grey-brown
Confidence level not specified			podzolic soil

Site Disturbance:

Vegetation:

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Silty loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, cobbly, 60-200mm, rounded tabular, Schist, coarse fragments; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Silty loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded tabular, Ferricrete, coarse fragments; Field pH 5.5 (Raupach, 0.2); Common, very fine (0-1mm) roots;
B21	0.2 - 0.3 m	Dark brown (10YR3/3-Moist); , 2-10% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.3); Common, very fine (0-1mm) roots;
B21	0.3 - 0.5 m	Dark brown (10YR3/3-Moist); , 2-10% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.4); Few, very fine (0-1mm) roots; Gradual change to -
BC	0.5 - 0.9 m	Very dark greyish brown (2.5Y3/2-Moist); , 2-10% , Distinct; Medium 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 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C	0.9 - 1 m	Dark greyish brown (2.5Y4/2-Moist); , 10-20% , Faint; Sandy loam; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.98);

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 GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile