

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 246 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	25/07/91	Elevation:	456 metres
Map Ref.:	Sheet No. : 6628-16 1:10000	Rainfall:	No Data
Northing/Long.:	6161335 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	315045 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.6 m deep, Schist

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:	Very gently sloped
Slope:	5 %	Aspect:	200 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.42
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

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

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded
Tall Strata - Tree, 12.01-20m, Isolated plants. *Species includes - Eucalyptus camaldulensis

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, angular, Quartz

Profile Morphology

O	0 - 0.03 m	Organic Layer; Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loam; Moderate grade of structure, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.04); Abundant, very fine (0-1mm) roots; Abrupt change to -
A1	0.03 - 0.1 m	Dark brown (10YR3/3-Moist); , 0-0% ; Sandy loam; Weak grade of structure, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.07); Many, very fine (0-1mm) roots;
A1	0.1 - 0.3 m	Dark brown (10YR3/3-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; Weak consistence; Field pH 6 (Raupach, 0.15); Many, very fine (0-1mm) roots; Clear change to -
A2	0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); , 0-2% , Faint; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 20-50%, medium gravelly, 6-20mm, angular, stratified strong, Quartz, coarse fragments; Field pH 7 (Raupach, 0.4); Common, very fine (0-1mm) roots; Abrupt change to -
B	0.4 - 0.5 m	Brown (10YR5/3-Moist); , 2-10% , Distinct; 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; Firm consistence; Field pH 7 (Raupach, 0.5); Few, very fine (0-1mm) roots; Clear change to -
BC	0.5 - 0.65 m	Yellowish brown (10YR5/4-Moist); , 10-20% , Prominent; 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; Very firm consistence; Field pH 7 (Raupach, 0.62);

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	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile