

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 236 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	23/07/91	Elevation:	476 metres
Map Ref.:	Sheet No. : 6628-16 1:10000	Rainfall:	No Data
Northing/Long.:	6161390 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	314765 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:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	160 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Active, Minor (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy3.41
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
Confidence level not specified			

Site Disturbance:

Vegetation: Low Strata - Sod grass, <0.25m, Sparse. *Species includes - None recorded

Surface Coarse Fragments: 0-2%, stony, 200-600mm, angular, Quartz

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A12	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Sandy loam; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5 (Raupach, 0.2); Many, very fine (0-1mm) roots; Clear change to -
A2	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); , 0-2% , Distinct; Sandy clay loam; 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, 0.29); Many, very fine (0-1mm) roots; Clear change to -
B	0.3 - 0.5 m	Light olive brown (2.5Y5/4-Moist); , 2-10% , Distinct; Medium clay; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.43); Common, very fine (0-1mm) roots; Clear change to -
BC	0.5 - 0.65 m	Light yellowish brown (2.5Y6/4-Moist); , 2-10% , Distinct; Medium clay; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) 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	0.65 - 0.8 m	Light brownish grey (2.5Y6/2-Moist); , 0-0% ; Sand; 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, 0.78);

Morphological 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