

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 249 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	26/07/91	Elevation:	449 metres
Map Ref.:	Sheet No. : 6628-16 1:10000	Rainfall:	No Data
Northing/Long.:	6162175 AMG zone: 54	Runoff:	Moderately rapid
Easting/Lat.:	316505 Datum: AGD66	Drainage:	Imperfectly drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.65 m deep,Porous, Schist

Land Form

Rel/Slope Class:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	6 %	Aspect:	240 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Chromosol		Principal Profile Form:	Dy5.81
ASC Confidence:		Great Soil Group:	Gleyed 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

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, rounded, Schist

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Moist; Very weak consistence; Field pH 4.5 (Raupach, 0.02); Abundant, coarse (>5mm) roots; Clear change to -
A12	0.1 - 0.3 m	Brown (10YR5/3-Moist); , 0-0% ; Loamy sand; Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.15); Many, very fine (0-1mm) roots; Clear change to -
A2	0.3 - 0.5 m	Pale brown (10YR6/3-Moist); , 0-0% ; Loamy sand; Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Field pH 5.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Sharp change to -
B	0.5 - 0.55 m	Greyish brown (2.5Y5/2-Moist); , 2-10% , Distinct; Medium clay; Wet; Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, stratifiedmoderately strong, Ferricrete, coarse fragments; Field pH 5.5 (Raupach, 0.5); Few, very fine (0-1mm) roots; Clear change to -
C	0.55 - 0.65 m	Olive yellow (2.5Y6/6-Moist); , 10-20% , Distinct; Sand; Moist; Very firm consistence; Field pH 6 (Raupach, 0.6);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity		
m		dS/m				Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	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