

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN **Site ID:** 313 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

#### Site Information

<b>Desc. By:</b> I. Hollingsworth	<b>Locality:</b>
<b>Date Desc.:</b> 09/08/91	<b>Elevation:</b> 421 metres
<b>Map Ref.:</b> 1:10000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6159125 AMG zone: 54	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 316050 Datum: AGD66	<b>Drainage:</b> Poorly drained

#### Geology

<b>ExposureType:</b> Auger boring	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> Auger boring, 0.8 m deep, Porous, Schist

#### Land Form

<b>Rel/Slope Class:</b> Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b> Hills
<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Footslope	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 1 %	<b>Aspect:</b> 340 degrees

**Surface Soil Condition (dry):** Firm

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Chromosol	<b>Principal Profile Form:</b> Dy5.83
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Soloth
Confidence level not specified	

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

#### Vegetation:

Tall Strata - Tree, 20.01-35m, Isolated plants. \*Species includes - Eucalyptus camaldulensis

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

#### Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-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, Wet; Loose consistence; Field pH 8 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A1	0.1 - 0.15 m	Very dark grey (10YR3/1-Moist); , 0-2% , Faint; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 8 (Raupach, 0.1); Many, very fine (0-1mm) roots; Clear change to -
A21	0.15 - 0.25 m	Very dark grey (10YR3/1-Moist); , 0-2% , Faint; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; Field pH 8 (Raupach, 0.2); Common, very fine (0-1mm) roots; Clear change to -
A22	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); , 0-2% , Faint; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, stratified moderately strong, Ferricrete, coarse fragments; Field pH 7.5 (Raupach, 0.3); Common, very fine (0-1mm)
A22	0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 50-90%, medium gravelly, 6-20mm, subrounded tabular, stratified moderately strong, Ferricrete, coarse fragments; Field pH 7.5 (Raupach, 0.35); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); ; 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 (Raupach, 0.45); Few, very fine (0-1mm) roots;
Bt	0.5 - 0.7 m	Yellowish brown (10YR5/6-Moist); ; 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 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C	0.7 - 0.8 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Prominent; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 7 (Raupach, 0.75);

#### 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