

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN **Site ID:** 239 **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>	26/07/91	<b>Elevation:</b>	459 metres
<b>Map Ref.:</b>	Sheet No. : 6628-16 1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6160590 AMG zone: 54	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	315120 Datum: AGD66	<b>Drainage:</b>	Imperfectly 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, 1 m deep, Schist

#### Land Form

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	170 degrees

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

**Erosion:** Stable, Minor or present (wind);

#### Soil Classification

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

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

#### Vegetation:

Tall Strata - Tree, 12.01-20m, Isolated plants. \*Species includes - Eucalyptus obliqua, Eucalyptus camaldulensis

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
A12	0.1 - 0.2 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Field pH 5.5 (Raupach, 0.15); Common, very fine (0-1mm) roots; Sharp change to -
A2	0.2 - 0.25 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Field pH 5.5 (Raupach, 0.2); Few, very fine (0-1mm) roots; Sharp change to -
Bt	0.25 - 0.3 m	Yellowish brown (10YR5/4-Moist); , 10-20% , 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; Field pH 5.5 (Raupach, 0.3); Few, very fine (0-1mm) roots;
Bt	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 10-20% , 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; Field pH 5.5 (Raupach, 0.42); Few, very fine (0-1mm) roots; Clear change to -
BC	0.5 - 0.75 m	Brownish yellow (10YR6/6-Moist); , 2-10% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Field pH 5.5 (Raupach, 0.61); Clear change to -
C	0.75 - 1 m	Light brownish grey (10YR6/2-Moist); , 0-0% ; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Field pH 6 (Raupach, 0.9);

#### Morphological Notes

#### Observation Notes

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Laboratory Test Results:

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

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay

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