

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN      **Site ID:** 250      **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>	452 metres
<b>Map Ref.:</b>	Sheet No. : 6628-16 1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6162240 AMG zone: 54	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	316575 Datum: AGD66	<b>Drainage:</b>	Moderately well 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, 0.9 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>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	4 %	<b>Aspect:</b>	320 degrees

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

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

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Chromosol		<b>Principal Profile Form:</b>	Dy5.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow podzolic soil
Confidence level not specified			

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

**Vegetation:**

**Surface Coarse Fragments:** 2-10%, stony, 200-600mm, rounded, Schist

**Profile Morphology**

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Weak consistence; Field pH 4.5 (Raupach, 0.05); Abundant, very fine (0-1mm) roots;
A1	0.1 - 0.3 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments; Field pH 4.5 (Raupach, 0.2); Abundant, 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; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.4); Few, very fine (0-1mm) roots;
Bt	0.5 - 0.55 m	Yellowish brown (10YR5/4-Moist); , 10-20% , Distinct; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.5); Few, very fine (0-1mm) roots; Clear change to -
BC	0.55 - 0.85 m	Yellowish brown (10YR5/6-Moist); , 20-50% , Distinct; Light clay; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C	0.85 - 1 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Clay loam; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) macropores, Moist; Very firm consistence; Field pH 6 (Raupach, 0.9);

**Morphological Notes**

**Observation Notes**

**Site 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