

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN      **Site ID:** 276      **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>	05/08/91	<b>Elevation:</b>	485 metres
<b>Map Ref.:</b>	1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6163700 AMG zone: 54	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	317590 Datum: AGD66	<b>Drainage:</b>	Very 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, 1.5 m deep, No Data

**Land Form**

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	14 %	<b>Aspect:</b>	300 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Hydrosol		<b>Principal Profile Form:</b>	Dg4.61
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Gleyed podzolic soil
Confidence level not specified			

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

**Vegetation:**

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

**Profile Morphology**

A11	0 - 0.1 m	Very dark grey (2.5Y3/0-Moist); , 0-0% ; Silty clay loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Wet; Very weak consistence; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A11	0.1 - 0.3 m	Very dark grey (2.5Y3/0-Moist); , 0-0% ; Silty clay loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Wet; Very weak consistence; Field pH 6 (Raupach, 0.2); Many, very fine (0-1mm) roots;
A11	0.3 - 0.5 m	Very dark grey (2.5Y3/0-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Wet; Very weak consistence; Field pH 6 (Raupach, 0.4); Many, very fine (0-1mm) roots; Gradual change to -
A12	0.5 - 0.85 m	Very dark greyish brown (10YR3/2-Moist); , 10-20% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Wet; Very weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach, 0.65); Common, very fine (0-1mm) roots; Clear change to -
A2	0.85 - 0.95 m	Brownish yellow (10YR6/6-Moist); , 2-10% , Distinct; Sand; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 7 (Raupach, 0.9); Few, very fine (0-1mm) roots; Clear change to -
Bg	0.95 - 1 m	, 2-10% , Prominent; Medium heavy clay; Massive grade of structure; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) macropores, Moist; Firm consistence; Field pH 5 (Raupach, 1); Few, very fine (0-1mm) roots;

**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		
m					g/g -	m3/m3		mm/h	mm/h

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Laboratory Analyses Completed for this profile