

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN **Site ID:** 113 **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>	25/04/91	<b>Elevation:</b>	420 metres
<b>Map Ref.:</b>	1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6157030 AMG zone: 54	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	319020 Datum: AGD66	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Undisturbed soil core, 3 m deep, Porous, Clay

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Simple-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1.5 %	<b>Aspect:</b>	340 degrees

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

**Erosion:** Minor (sheet)

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodosol		<b>Principal Profile Form:</b>	Dy3.43
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solodized solonetz
Confidence level not specified			

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Pinus radiata

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

**Profile Morphology**

A1	0 - 0.1 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); , 7.5YR32, 0-2% , 0-5mm, Faint; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Loose consistence; Non-plastic; Non-sticky; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Clear change to -
AB	0.1 - 0.3 m	Light brownish grey (10YR6/2-Moist); White (10YR8/1-Dry); , 7.5YR32, 0-2% , 0-5mm, Distinct; Heavy clay; Massive grade of structure; Moderately moist; Loose consistence; Non-plastic; Non-sticky; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Sharp change to -
Btg	0.3 - 0.4 m	Dark yellowish brown (10YR4/6-Moist); Yellowish brown (10YR5/6-Dry); , 10YR42, 20-50% , 0-5mm, Faint; Heavy clay; Weak grade of structure; Moist; Loose consistence; Very plastic; Normal plasticity; Very sticky; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Sharp change to -
Btk	0.4 - 0.5 m	Light yellowish brown (2.5Y6/4-Moist); Light yellowish brown (2.5Y6/4-Dry); ; Medium heavy clay; Moderate grade of structure; Wet; Very firm consistence; Very plastic; Normal plasticity; Very sticky; Field pH 9 (Raupach); Common, very fine (0-1mm) roots; Sharp change to -
Btk	0.5 - 0.7 m	Greyish brown (2.5Y5/2-Moist); Light yellowish brown (2.5Y6/4-Dry); , 10YR76, 10-20% , 5-15mm, Faint; Medium clay; Strong grade of structure; Strong consistence; Moderately plastic; Normal plasticity; Moderately sticky; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (Raupach); Few, fine (1-2mm) roots; Clear change to -
Bck	0.7 - 1 m	Light grey (2.5Y7/2-Moist); Light grey (2.5Y7/2-Dry); , 10YR68, 20-50% , 5-15mm, Distinct; Single grain grade of structure; Moderately plastic; Normal plasticity; Slightly sticky; Field pH 9 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes**

**Observation Notes**

**Site 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

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Laboratory Analyses Completed for this profile