

**Project Name:** Warren Reservoir Catchment Survey  
**Project Code:** WRN **Site ID:** 109 **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>	440 metres
<b>Map Ref.:</b>	1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6155120 AMG zone: 54	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	319710 Datum: AGD66	<b>Drainage:</b>	Poorly drained

#### Geology

<b>Exposure Type:</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, 0.5 m deep, Non-porous, dense, Silcrete

#### Land Form

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Peneplain
<b>Morph. Type:</b>	Open depression (vale)	<b>Relief:</b>	3 metres
<b>Elem. Type:</b>	Drainage depression	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	70 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>	Dy3.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Soloth
Confidence level not specified			

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

**Vegetation:** Low Strata - Sod grass, <0.25m, Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, . \*Species includes - Eucalyptus camaldulensis

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

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Brown (10YR5/3-Dry); , 7.5YR34, 2-10% , 0-5mm, Faint; Fine sandy loam; Single grain grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Sharp, Smooth change to -
A2	0.1 - 0.3 m	Reddish brown (2.5YR5/4-Moist); Very pale brown (10YR8/4-Dry); , 5YR46, 2-10% , 0-5mm, Distinct; Loamy sand; Massive grade of structure; Moderately moist; Weak consistence; Clear, Smooth change to -
AB	0.3 - 0.35 m	Light grey (10YR7/2-Moist); White (10YR8/2-Dry); , 10YR68, 20-50% , 0-5mm, Faint; Sandy clay loam; Weak grade of structure; Moist; Firm consistence; Sharp, Irregular change to -
Bc	0.35 - 0.5 m	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); , 5YR46, 20-50% , 0-5mm, Faint; , 10YR68; Light medium clay; Single grain grade of structure; Wet; Loose consistence; Clear, Smooth change to -
C	0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); Red (2.5YR4/6-Dry); , 2.5Y46, 20-50% , 15-30mm, Prominent; , 10YR56; Sandy clay; Single grain grade of structure; Loose consistence;

#### Morphological Notes

#### Observation 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