Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **110** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 29/04/91
Map Ref.: 1:10000
Northing/Long.: 6155080 AMG zone: 54
Easting/Lat.: 315900 Datum: AGD66
Locality:
Elevation: 423 metres
Rainfall: No Data
Runoff: Slow
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Open depression (vale)
Elem. Type: Drainage depression
Slope: 0.5 %
Pattern Type: Peneplain
Relief: 5 metres
Slope Category: Level
Aspect: 70 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dg2.43
Great Soil Group: Solodized solonetz

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

Vegetation: Low Strata - Sod grass, <0.25m, Mid-dense. *Species includes - Medicago sativa, Hordeum marineum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Light brownish grey (10YR6/2-Dry); , 7.5YR46, 2-10% , 0-5mm, Distinct; Sandy loam; 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; Slightly sticky; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A2	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/1-Dry); , 5YR33, 2-10% , 0-5mm, Distinct; Loamy sand; Massive grade of structure; Medium, (5 - 10) mm crack; Loose consistence; Non-plastic; Slightly sticky; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Sharp, Irregular change to -
Bt	0.3 - 0.35 m	Light grey (10YR7/1-Moist); White (10YR8/1-Dry); , 10YR58, 10-20% , 5-15mm, Distinct; Sandy clay; Single grain grade of structure; Moist; Loose consistence; Slightly plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, angular, dispersedstrong, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Sharp, Irregular change to -
Bt	0.35 - 0.5 m	Greyish brown (10YR5/2-Moist); Light grey (10YR7/2-Dry); , 10YR58, 20-50% , 5-15mm, Distinct; , 10YR32; Medium heavy clay; Moderate grade of structure; Loose consistence; Very plastic; Normal plasticity; Slightly sticky; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Veins; Field pH 10 (Raupach);
Btk	0.5 - 0.6 m	Greyish brown (2.5Y5/2-Moist); Light yellowish brown (2.5Y6/4-Dry); , 10YR58, 20-50% , 0-5mm, Distinct; Light clay; Strong grade of structure; Strong consistence; Slightly plastic; Slightly sticky; 50-90%, medium gravelly, 6-20mm, rounded tabular, stratifiedstrong, Schist, coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots;
Btk	0.6 - 1 m	; Light clay; Slightly plastic; Slightly sticky; Field pH 7.5 (Raupach); Few, very fine (0-1mm)

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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

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