Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **301** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 08/08/91
Map Ref.: Sheet No. : 6628-26 1:10000
Northing/Long.: 6150830 AMG zone: 54
Easting/Lat.: 312190 Datum: AGD66
Locality:
Elevation: 458 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Poorly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 0.8 m deep,Porous, Schist

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 8 %
Pattern Type: Hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 320 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
Chromosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy5.61
Great Soil Group: Yellow podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation:
Low Strata - , , . *Species includes - Casuarina striata, Hakea ulicina
Mid Strata - , , . *Species includes - Acacia pycnantha
Tall Strata - , , . *Species includes - Eucalyptus fastigata

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, angular, Quartz

Profile Morphology

A2	0.1 - 0.3 m	Very pale brown (10YR7/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.2); Common, very fine (0-1mm) roots; Abrupt change to -
Bt	0.3 - 0.4 m	Brownish yellow (10YR6/6-Moist); , 2-10% , Distinct; Medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Fragipan; Field pH 6 (Raupach, 0.35); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.4 - 0.5 m	Light yellowish brown (10YR6/4-Moist); , 10-20% , Distinct; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
Bt	0.5 - 0.8 m	Light grey (10YR7/2-Moist); , 20-50% , Prominent; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
A1	0.6 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersedstrong, Quartz, coarse fragments; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear change to -
BC	0.8 - 1 m	Light grey (10YR7/2-Moist); , 2-10% , Prominent; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.95); 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
			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