Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **291** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 06/08/91
Map Ref.: Sheet No. : 6628-26 1:10000
Northing/Long.: 6152075 AMG zone: 54
Easting/Lat.: 311210 Datum: AGD66
Locality:
Elevation: 464 metres
Rainfall: No Data
Runoff: Slow
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.2 m deep,Porous, Pegmatite

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 4 %
Pattern Type: Hills
Relief: No Data
Slope Category: Very gently sloped
Aspect: 360 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

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

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

Vegetation: Low Strata - Heath shrub, 1.01-3m, Closed or dense. *Species includes - Xanthorrhoea species, Spyridium parvifolium

Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Acacia pycnantha

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus obliqua

Surface Coarse Fragments: 0-2%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 5.5 (Raupach, 0.02); Many, very fine (0-1mm) roots; Clear change to -
A21	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.2); Common, very fine (0-1mm) roots; Clear change to -
A21	0.1 - 0.3 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Very weak consistence; Field pH 6 (Raupach, 0.2); Common, very fine (0-1mm) roots; Clear change to -
A22	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) macropores, Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, Ferricrete, coarse fragments; Field pH 6 (Raupach, 0.4); Common, very fine (0-1mm) roots;
Bw	0.5 - 0.65 m	Strong brown (7.5YR5/8-Moist); , 10-20% , Faint; Sandy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moist; Firm consistence; Field pH 6 (Raupach, 0.55); Few, very fine (0-1mm) roots; Abrupt change to -
Bt	0.65 - 0.8 m	Strong brown (7.5YR5/8-Moist); , 10-20% , Prominent; Heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) macropores, Moderately moist; Very firm consistence; Field pH 6 (Raupach, 0.7); Sharp change to -
C	0.8 - 1.2 m	Strong brown (7.5YR5/8-Moist); , 2-10% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) macropores, Moderately moist; Strong consistence; Field pH 6 (Raupach, 0.12);

Morphological Notes

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Site Notes

Observation 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	Avail.	Total	Total	Total	Bulk	Particle Size Analysis				
		C	P	P	N	K	Density	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