

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 241 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 25/07/91	Elevation: 432 metres
Map Ref.: Sheet No. : 6628-16 1:10000	Rainfall: No Data
Northing/Long.: 6160535 AMG zone: 54	Runoff: Slow
Easting/Lat.: 315585 Datum: AGD66	Drainage: Poorly drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Auger boring, 1 m deep,Porous, Schist

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%	Pattern Type: Hills
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Footslope	Slope Category: Very gently sloped
Slope: 4 %	Aspect: 100 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification: Chromosol	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.42
	Great Soil Group: Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 10-20% , 0-5mm, Distinct; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5.5 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A11	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10-20% , 0-5mm, Distinct; Sandy loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 5.5 (Raupach, 0.15); Many, very fine (0-1mm) roots;
A12	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); , 10-20% , 0-5mm, Distinct; Clay loam; 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; Field pH 6 (Raupach, 0.22); Common, very fine (0-1mm) roots;
A12	0.3 - 0.5 m	Greyish brown (10YR5/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; Field pH 6 (Raupach, 0.4); Common, very fine (0-1mm) roots;
A12	0.5 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, stratifiedmoderately strong, Ferricrete, coarse fragments; Field pH 7 (Raupach, 0.6); Common, very fine (0-1mm) roots;
A2	0.6 - 0.7 m	Light grey (10YR7/2-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, stratifiedstrong, Quartz, coarse fragments; Field pH 7 (Raupach, 0.65); Few, very fine (0-1mm) roots;
Bt	0.7 - 0.85 m	Yellowish brown (10YR5/8-Moist); ; Light medium 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 7 (Raupach, 0.8); Few, very fine (0-1mm) roots;
BC	0.85 - 1 m	Brownish yellow (10YR6/8-Moist); , 2-10% , Distinct; Clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 7 (Raupach, 0.9);

Morphological 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 Cmol (+)/kg	Acidity		%

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		
m					g/g - m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile