

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 273 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 05/08/91
Map Ref.: 1:10000
Northing/Long.: 6163460 AMG zone: 54
Easting/Lat.: 317510 Datum: AGD66
Locality:
Elevation: 485 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.1 m deep, Porous, Schist

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 12 %
Pattern Type: Hills
Relief: No Data
Slope Category: Moderately inclined
Aspect: 150 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor (sheet)

Soil Classification

Australian Soil Classification:
Rudosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Uc5.11
Great Soil Group: Siliceous sand

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

Vegetation:

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, angular, Quartz

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5 (Raupach, 0.07); Many, very fine (0-1mm) roots;
A1	0.1 - 0.3 m	Dark brown (7.5YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; Field pH 5 (Raupach, 0.2); Many, very fine (0-1mm) roots; Clear change to -
A2	0.3 - 0.4 m	Brown (7.5YR4/2-Moist); , 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, angular, stratifiedstrong, Schist, coarse fragments; Field pH 5 (Raupach, 0.35); Many, very fine (0-1mm) roots; Clear change to -
Bw	0.4 - 0.5 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Fine (1-2mm) macropores, Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, stratifiedweak, Schist, coarse fragments; Field pH 5.5 (Raupach, 0.45); Common, very fine (0-1mm) roots; Clear change to -
BC	0.5 - 0.7 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Field pH 5.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear change to -
C	0.7 - 1 m	Light yellowish brown (10YR6/4-Moist); , 2-10% , Distinct; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Field pH 5.5 (Raupach, 0.95); Few, very fine (0-1mm) roots;

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

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Laboratory Analyses Completed for this profile