

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 265 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	01/08/91	Elevation:	516 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6162510 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	318530 Datum: AGD66	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	Rolling low hills 30-90m 10-	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	1 %	Aspect:	300 degrees

Surface Soil Condition (dry): Firm

Erosion: Stable, Minor or present (wind);

Soil Classification

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

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

Vegetation: Low Strata - Sod grass, <0.25m, Sparse. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy 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; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots;
A1	0.1 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy 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; Field pH 6 (Raupach, 0.2); Many, very fine (0-1mm) roots;
A1	0.3 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy 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; Field pH 6 (Raupach, 0.4); Many, very fine (0-1mm) roots;
A1	0.5 - 0.55 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy 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; Field pH 6 (Raupach, 0.52); Many, very fine (0-1mm) roots; Clear change to -
AC	0.55 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Loamy 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; 2-10%, medium gravelly, 6-20mm, angular, stratified strong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.57); Common, very fine (0-1mm) roots; Sharp change to -
C1	0.6 - 0.75 m	Very pale brown (10YR7/4-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; Firm consistence; Field pH 6 (Raupach, 0.68); Few, very fine (0-1mm) roots; Clear change to -
C2	0.75 - 0.85 m	Yellow (10YR8/6-Moist); , 0-2% , Faint; 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, Moderately moist; Very firm consistence; Field pH 6.5 (Raupach, 0.78);

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	15 Bar		
m					g/g -	m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile