

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 117 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	25/04/91	Elevation:	430 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6157480 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	318470 Datum: AGD66	Drainage:	Very poorly drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, 3 m deep, Porous, Sand

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Peneplain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Drainage depression	Slope Category:	Level
Slope:	0 %	Aspect:	250 degrees

Surface Soil Condition (dry): Firm

Erosion: Minor (gully)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Dy3.22
ASC Confidence:		Great Soil Group:	Solodic soil
Confidence level not specified			

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

Vegetation: Low Strata - Sedge, <0.25m, Sparse. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); Greyish brown (10YR5/2-Dry); , 7.5YR32, 0-2% , 0-5mm, Distinct; Loamy sand; Single grain grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Loose consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); Abundant, very fine (0-1mm) roots; Clear, Smooth change to -
A21	0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/4-Dry); , 7.5YR46, 0-2% , 0-5mm, Distinct; Loamy sand; Massive grade of structure; Moderately moist; Loose consistence; Non-plastic; Non-sticky; Field pH 7 (Raupach); Many, very fine (0-1mm) roots; Clear, Smooth change to -
A22	0.3 - 0.5 m	Light brownish grey (10YR6/2-Moist); Light brownish grey (10YR6/2-Dry); , 7.5YR56, 10-20% , 5-15mm, Faint; , 10YR82; Loamy sand; Single grain grade of structure; Moist; Loose consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Sharp, Smooth change to -
A23	0.5 - 0.6 m	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); , 7.5YR56, 2-10% , 5-15mm, Distinct; , 7.5YR58; Sandy loam; Single grain grade of structure; Wet; Very firm consistence; Non-plastic; Non-sticky; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Sharp, Smooth change to -
Btg	0.6 - 0.7 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); , 5YR46, 0-2% , 0-5mm, Prominent; Medium clay; Strong grade of structure; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Sharp, Smooth change to -
C	0.7 - 1 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); , 5YR34, 0-2% , 0-5mm, Prominent; Sandy loam; Single grain grade of structure; Loose consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); 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