

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 090 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	18/12/90	Elevation:	413 metres
Map Ref.:	1:10000	Rainfall:	No Data
Northing/Long.:	6157390 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	318700 Datum: AGD66	Drainage:	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, Clay

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Peneplain
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	300 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodosol		Principal Profile Form:	Dy3.43
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 - Sod grass, <0.25m, Mid-dense. *Species includes - Hordeum marinum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); Light grey (10YR7/2-Dry); , 7.5YR44, 0-2% , 0-5mm, Faint; Loamy sand; Massive grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A21	0.1 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR8/3-Dry); , 7.5YR56, 0-2% , 0-5mm, Faint; Sand; Massive grade of structure; Moderately moist; Weak consistence; Non-plastic; Non-sticky; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
A22	0.3 - 0.33 m	Pale brown (10YR6/3-Moist); White (10YR8/1-Dry); , 7.5YR44, 0-2% , 0-5mm, Distinct; Clayey sand; Weak grade of structure; Moist; Loose consistence; Non-plastic; Non-sticky; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Tongued change to -
Bt	0.33 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); Greyish brown (2.5Y5/2-Dry); , 7.5YR44, 10-20% , 0-5mm, Distinct; Sandy medium clay; Moderate grade of structure; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
Bt	0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); Greyish brown (2.5Y5/2-Dry); , 10YR56, 20-50% , 0-5mm, Distinct; Sandy medium clay; Strong grade of structure; Dry; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 8 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
Bt	0.5 - 0.7 m	Yellowish brown (10YR5/6-Moist); Brownish yellow (10YR6/6-Dry); , 0-0% ; Sandy light clay; Single grain grade of structure; Dry; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Alluvium, coarse fragments; Field pH 9.5 (Raupach); Clear, Smooth change to -
Bt	0.7 - 0.8 m	Yellowish brown (10YR5/6-Moist); Yellowish brown (10YR5/6-Dry); , 0-0% ; Heavy clay; Single grain grade of structure; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 9.5 (Raupach); Clear, Smooth change to -
Btk	0.8 - 0.9 m	Light yellowish brown (2.5Y6/4-Moist); Light yellowish brown (2.5Y6/4-Dry); , 10YR58, 10-20% , 5-15mm, Faint; Medium clay; Single grain grade of structure; Dry; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 9.5 (Raupach); Clear, Smooth change to -

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Bt 0.9 - 1 m Light yellowish brown (2.5Y6/4-Moist); Light yellowish brown (2.5Y6/4-Dry); , 10YR58, 10-20% , 5-15mm, Distinct; Medium clay; Single grain grade of structure; Moist; Loose consistence; Very plastic; Normal plasticity; Moderately sticky; Field pH 9.5 (Raupach);

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