

Project Name: Warren Reservoir Catchment Survey
Project Code: WRN **Site ID:** 403 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth	Locality:
Date Desc.: 11/03/92	Elevation: 418 metres
Map Ref.: 1:10000	Rainfall: No Data
Northing/Long.: 6157100 AMG zone: 54	Runoff: Slow
Easting/Lat.: 318850 Datum: AGD66	Drainage: Poorly drained

Geology

ExposureType: Auger boring	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Auger boring, 3 m deep, No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%	Pattern Type: Peneplain
Morph. Type: Open depression (vale)	Relief: 5 metres
Elem. Type: Drainage depression	Slope Category: Very gently sloped
Slope: 1 %	Aspect: 310 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Minor (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Sodosol	Principal Profile Form: Dy3.42
ASC Confidence:	Great Soil Group: Solodized solonetz
Confidence level not specified	

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.3 m	Light grey (10YR7/2-Moist); , 0-2% , Distinct; Loamy sand; Massive grade of structure; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Few, very fine (0-1mm) roots; Sharp, Tongued change to -
Bt	0.3 - 0.5 m	Dark grey (5Y4/1-Moist); , 10-20% , Prominent; Heavy clay; Strong grade of structure, 50-100 mm, Columnar; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Few, very fine (0-1mm) roots; Clear, Irregular change to -
Bts	0.5 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 20-50% , Prominent; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Strong consistence; Many cutans, >50% of ped faces or walls coated, distinct; Clear, Irregular change to -
Bts	0.7 - 1 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Prominent; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Clear, Smooth change to -
Bts	1 - 1.2 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Prominent; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Clear, Wavy change to -
Bcg	1.2 - 1.5 m	Yellowish brown (10YR5/8-Moist); , 10-20% , Prominent; Sandy clay; Moderate grade of structure, 100-200 mm, Prismatic; Rough-ped fabric; Moist;

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na			
						Cmol (+)/kg			%

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt Clay
								%	

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