Project Name: **Warren Reservoir Catchment Survey**
Project Code: **WRN** **Site ID:** **062** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 11/12/90
Map Ref.: 1:10000
Northing/Long.: 6153580 AMG zone: 54
Easting/Lat.: 314650 Datum: AGD66
Locality:
Elevation: 420 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: Undisturbed soil core
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, 0.75 m deep,Porous, Schist

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 5 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: 30 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Chromosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dy5.11
Great Soil Group: Yellow podzolic soil

Site Disturbance: No effective disturbance. Natural

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Light brownish grey (10YR6/2-Dry); , 0-0% ; Sandy loam; Single grain grade of structure; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Loose consistence; Clear, Smooth change to -
A2	0.1 - 0.3 m	Dark yellowish brown (10YR4/4-Moist); Yellow (10YR7/6-Dry); , 0-0% ; Clay loam, sandy; Single grain grade of structure; Moderately moist; Weak consistence; Clear, Smooth change to -
Bt	0.3 - 0.5 m	Strong brown (7.5YR5/8-Moist); Brownish yellow (10YR6/8-Dry); , 2.5YR46, 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure; Moist; Weak consistence; Abrupt, Smooth change to -
BC	0.5 - 0.75 m	Reddish yellow (7.5YR6/8-Moist); Strong brown (7.5YR5/8-Dry); , 10R36, 20-50% , 15-30mm, Prominent; Medium clay; Single grain grade of structure; Wet; Loose consistence;

Morphological Notes

Observation Notes

Site Notes

A1422

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.8C 4.7A	0.06A	4.84D	1.27	0.16	0.13		9.2K	6.4D	1.41
0.1 - 0.3	4.7C 4.8A	0.06A	2.63D	1.45	0.07	0.17		5.8K	4.3D	2.93
0.3 - 0.5	5C 5.1A	0.08A	5.86D	5.99	0.31	0.47	0.08A	15.5K	12.6D	3.03
0.5 - 0.75	5.5C 5.2A	0.07A	4.71D	5.79	0.23	0.36	0.01A	12.8K	11.1D	2.81

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.7C	10E		0.061D				40B	39	9	11
0.1 - 0.3		0.9C	4E		0.026D				40B	35	7	17
0.3 - 0.5		0.7C			0D				12B	9	6	73
0.5 - 0.75		0.2C			0D				25B	5	5	63

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
0 - 0.1									
0.1 - 0.3									
0.3 - 0.5									
0.5 - 0.75									

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Laboratory Analyses Completed for this profile

15B2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15B2_K	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15B2_MG	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15B2_NA	Exchangeable bases and CEC - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15G1	Exchange acidity (hydrogen and aluminium) by 1M potassium chloride
15I3	CEC measurement - automated determination of ammonium and chloride ions
15J_BASES	Sum of Bases
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7A5	Total nitrogen - high frequency induction furnace, thermal conductivity
9B2	Bicarbonate-extractable phosphorus - automated colour
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette