Project Name: Warren Reservoir Catchment Survey

Project Code: WRN Site ID: 258 Observation ID: 1

Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: I. Hollingsworth Locality:

01/07/91 Date Desc.: Elevation: 440 metres Map Ref.: 1:10000 Rainfall: No Data Northing/Long.: Runoff: 6159540 AMG zone: 54 Very slow Easting/Lat.: 317395 Datum: AGD66 Drainage: Poorly drained

<u>Geology</u>

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Auger boring, 2 m deep, Slightly porous,

Clay

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Open depression (vale)Relief:No Data

Elem. Type: Valley flat Slope Category: Very gently sloped Slope: 2 % Aspect: 280 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHydrosolPrincipal Profile Form:Dy5.81

ASC Confidence: Great Soil Group: Gleyed podzolic

Confidence level not specified soil

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Closed or dense. *Species includes - Pinus radiata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Very dark grey (10YR3/1-Moist); , 0-0%; Silty clay loam; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersedstrong, Ferricrete, coarse fragments; Field pH 5 (Raupach, 0.05); Many, very fine (0-1mm) roots;

A1 0.1 - 0.15 m Very dark grey (10YR3/1-Moist); ; Silty clay loam; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm)

macropores, Wet; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded,

dispersedstrong, Ferricrete, coarse fragments; Field pH 5.5 (Raupach, 0.15); Many, very fine (0-

1mm) roots; Clear change to -

A21 0.15 - 0.3 m Dark greyish brown (10YR4/2-Moist); , 2-10% , Distinct; Light clay; Massive grade of structure;

Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet;

Weak consistence; Field pH 5.5 (Raupach, 0.2); Common, very fine (0-1mm) roots;

A22 0.3 - 0.35 m Light brownish grey (2.5Y6/2-Moist); , 2-10% , Distinct; Light clay; Massive grade of structure;

Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Weak consistence; Field pH 6 (Raupach, 0.35); Common, very fine (0-1mm) roots; Clear change

to -

Bt 0.35 - 0.5 m Yellowish brown (10YR5/8-Moist); , 10-20% , Distinct; Sandy clay; Massive grade of structure;

Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm

consistence; Field pH 6 (Raupach, 0.45); Few, very fine (0-1mm) roots;

Bt 0.5 - 0.75 m Yellowish brown (10YR5/8-Moist); , 10-20% , Distinct; Sandy clay; Massive grade of structure;

Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersedstrong, Quartz, coarse fragments; Field pH 6 (Raupach, 0.55); Few, very fine (0-1mm) roots; Abrupt change to -

2A2 0.75 - 0.8 m Light grey (10YR7/1-Moist); , 0-0%; Coarse sand; Massive grade of structure; Fine, (0 - 5) mm

crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Loose consistence; 20-50%, medium gravelly, 6-20mm, rounded, stratifiedstrong, Quartz, coarse fragments; Field pH 7

(Raupach, 0.8); Few, very fine (0-1mm) roots; Abrupt change to -

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0.8 - 0.9 m

Yellowish brown (10YR5/8-Moist); , 10-20% , Distinct; Heavy clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very firm

consistence; Field pH 6 (Raupach, 0.85); Few, very fine (0-1mm) roots; Clear change to -

Light grey (2.5Y7/2-Moist); , 2-10% , Prominent; Heavy clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Wet; Very firm 2BC 0.9 - 1 m

consistence; Field pH 6 (Raupach, 0.95);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

COLE

Depth

m

Depth	pН	1:5 EC		Exchangeable		Exchangeable Na Acidity		CEC		ECEC		ESP
m		dS/m				Cmol (+)/	kg					%
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analys	is
		С	P	Р	N	K	Density	G۷	cs	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

Gravimetric/Volumetric Water Contents

Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3

K sat

mm/h

K unsat

mm/h

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Laboratory Analyses Completed for this profile