

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448 **Site ID:** WW277 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	Chen, XY	<b>Locality:</b>	
<b>Date Desc.:</b>	15/07/93	<b>Elevation:</b>	202 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6098800 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	508000 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	Cza	<b>Substrate Material:</b>	Sand

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	315 degrees

**Surface Soil Condition (dry):** Hardsetting

**Erosion:** Stable, Present (stbank)

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Brown Dermosol Thick Gravelly Peaty		<b>Principal Profile Form:</b>	Gn3.26
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Yellow earth
Confidence level not specified			

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.2 m	Brown (7.5YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.2 - 0.4 m	Brown (7.5YR4/4-Moist); Reddish yellow (7.5YR6/6-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.4 - 0.85 m	Strong brown (7.5YR4/6-Moist); ; Fine sandy clay loam; Moderate grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Slightly plastic; Moderately sticky; Field pH 8.5 (Raupach); Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B3	0.85 - 1.3 m	Dark yellowish brown (10YR4/6-Moist); ; Fine sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Slightly plastic; Moderately sticky; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations, weak, segregations;Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

River bank exposure. Channel bottom 10m below plain surface.

#### Site Notes

100M IN FENCE

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.2	5.1B	0.19A	9.4J	1.8	1.2	0.2	0L	10.6I		1.89
0.2 - 0.4	6B	0.04A	3J	0.7	1.3	0.4	0L	4.8I		8.33
0.4 - 0.85	6.5B	0.07A	4.6J	0.9	2.1	0.6	0L	7.3I		8.22
0.85 - 1.3	6.8B	0.2A	6.3J	2.5	1.1	0.4	0L	7.8I		5.13

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.2		1.9A	8D						5F	82	8	5
0.2 - 0.4		0.24A	2D						4F	78	10	8
0.4 - 0.85		0.17A	1D						3F	73	10	14
0.85 - 1.3		0.07A	0D						5F	69	10	16

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
				g/g -		m3/m3			
0 - 0.2				0.13B				0.08B	
0.2 - 0.4				0.27B				0.03B	
0.4 - 0.85				0.32B				0.05B	
0.85 - 1.3				0.36B				0.07B	

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F2	Exchangeable aluminium by 0.01m (AgTU)+
15F3	CEC by 0.01M silver-thiourea (AgTU)+
3A1	EC of 1:5 soil/water extract
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9E	Available P (mg/kg) - Bray P
9J2	Phosphate sorption curve - automated colour
P10_HYD_C	Clay (%) - Hydrometer Method
P10_HYD_CS	Coarse Sand (%) - Hydrometer Method
P10_HYD_FS	Fine Sand (%) - Hydrometer Method
P10_HYD_Z	Silt (%) - Hydrometer Method
P3B_GV_01	0.1 BAR Moisture g/g - Gravimetric using suction plate
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate