**WAGGA WAGGA SOIL LANDSCAPES Project Name:** 

**Project Code:** 1000448 Site ID: WW161 Observation ID: 1

**Agency Name: CSIRO Division of Soils (ACT)** 

**Site Information** 

Desc. By: Date Desc.: Locality: Chen, XY

Elevation: 15/07/93 173 metres Map Ref.: Sheet No.: 8327 1:25000 Rainfall: No Data Northing/Long.: 6120475 AMG zone: 55 Runoff: Very slow

518375 Datum: AGD66 Imperfectly drained Easting/Lat.: Drainage:

**Geology** 

ExposureType: No Data Conf. Sub. is Parent. Mat.: Probable Geol. Ref.: Substrate Material: Cza Clay

**Land Form** 

Rel/Slope Class: No Data Plain Pattern Type: Morph. Type: Elem. Type: Flat Relief: No Data Plain **Slope Category:** No Data Aspect: 180 degrees Slope: 0 %

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification: Mapping Unit: N/A Haplic Red Chromosol Thick Gravelly Sandy **Principal Profile Form:** Dr2.23

8.5 (Raupach); Few, fine (1-2mm) roots;

**ASC Confidence: Great Soil Group:** Red-brown earth

Confidence level not specified

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

### **Surface Coarse Fragments:**

### Profile Morphology

Profile Morphology		
A1	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Fine sandy loam; Weak grade of structure, <2 mm, Granular; 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 6.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.1 - 0.3 m	Dark reddish brown (5YR3/4-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; Very firm consistence; Slightly plastic; Moderately sticky; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B2	0.3 - 0.55 m	Red (2.5YR4/6-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Moderately plastic; Very sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 7 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
В3	0.55 - 0.85 m	Yellowish red (5YR3/6-Moist); Mottles, 0-2%, Faint; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very plastic; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH

# Morphological Notes

Water expellent. Α1

## **Observation Notes**

Pit to 35cm, auger to 85cm.

#### **Site Notes**

50M W FARM ENTRANCE, S HIGHWAY

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# **Laboratory Test Results:**

Laboratory rest results.													
Depth	pН	1:5 EC		hangeable Vig	Cations K	Na E	xchangeabl Acidity	e CEC		ECEC		ESP	
m		dS/m		<b>-</b> 5		Cmol (+)/kg					%		
0 - 0.1	6.3B	0.09A	11.4J	2.6	0.4	0.3	0L	13.2	I			2.27	
0.1 - 0.3	6.4B	0.04A	3.8J	1.7	8.0	0.3	OL	9.41				3.19	
0.3 - 0.55	5.9B	0.13A	6.9J	8	1.9	0.7	0L	16.5	I		4.24		
0.55 - 0.85	6.5B	0.16A	8.7J	11.3	1.6	1	0L	23.7				4.22	
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	D	ırticle	Ci=o	Analysi	•	
Deptil	CaCOS	C	Avaii. P	P	N	K			CS	FS			
m	%	%	-	Р %	N %	К %	Density Mg/m3	, -	CS	гэ %	SIII	Clay	
m	70	70	mg/kg	70	70	70	wg/iiis			70			
0 - 0.1		3.35A	3D						31F	55	7	7	
0.1 - 0.3		0.46A	1D						31F	40	16	13	
0.3 - 0.55		0.33A	0D						12F	15	8	65	
0.55 - 0.85		0.28A	0D						7F	12	11	70	
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsa								ıt		
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar	15 Bar					
m				g/s	g - m3/m3	3			mm	/h	mm/h		
0 - 0.1				0.29B				0.11B					
0.1 - 0.3				0.27B				0.06B					
0.3 - 0.55				0.49B				0.24B					
0.55 - 0.85				0.53B				0.26B					

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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
P10\_HYD\_CS
P10\_HYD\_FS
P10\_HYD\_FS
P10\_HYD\_Z
Clay (%) - Hydrometer Method
Fine Sand (%) - Hydrometer Method
Silt (%) - Hydrometer Method

P3B\_GV\_01

O.1 BAR Moisture g/g - Gravimetric using suction plate
15 BAR Moisture g/g - Gravimetric using pressure plate