Project Name: WAGGA WAGGA SOIL LANDSCAPES

Project Code: 1000448 Site ID: WW151 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

**Site Information** 

Desc. By: Chen, XY Locality:

Date Desc.:15/07/93Elevation:230 metresMap Ref.:Sheet No.: 83271:25000Rainfall:No Data

Northing/Long.: 6123950 AMG zone: 55 Runoff: Moderately rapid
Easting/Lat.: 523250 Datum: AGD66 Drainage: Moderately well drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: Probable Geol. Ref.: Ou Substrate Material: Gravel

**Land Form** 

Rel/Slope Class:No DataPattern Type:Low hillsMorph. Type:Mid-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:5 %Aspect:270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Minor (sheet)

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AHaplic Red Chromosol Medium Slightly gravelly SandyVeryPrincipal Profile Form:Dr2.12

shallow

ASC Confidence: Great Soil Group: Non-calcic brown

Confidence level not specified soil

<u>Site Disturbance:</u> Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** 

<u>Surface Coarse Fragments:</u> 2-10%, fine gravelly, 2-6mm, subangular, ; No surface coarse fragments; No surface coarse fragments

**Profile Morphology** 

A 0 - 0.1 m Dark brown (7.5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Slightly plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed,

coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change

to -

B2 0.1 - 0.5 m Dark reddish brown (5YR3/4-Moist); ; Light clay; Moderate grade of structure, <2 mm, Granular;

Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse

fragments; Field pH 6.5 (Raupach); Common, fine (1-2mm) roots; Diffuse change to -

B3 0.5 - 0.8 m Dark yellowish brown (10YR4/6-Moist); Mottles, 0-2%, Faint; Light medium clay; Moderate grade

of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Very plastic; Very sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of

ped faces or walls coated, distinct; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes** 

Some stone concentration on surface. Lithic-sandstone, mud-stone. Sand

fraction is fine.

B3 Stone increase downwards.

## **Observation Notes**

Pit to 30cm, auger to 80cm.

## Site Notes

40M IN GATE, E OF TRACK

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## **Laboratory Test Results:**

Depth	pН	1:5 EC		hangeable	Cations K		xchangeable	CEC		ECEC		ESP
m		dS/m	Ca	Mg	K.	Na Cmol (+)	Acidity /kg					%
0 - 0.1	4.8B	0.19A	3.4J	1.2	1.6	0.3	0L	5.91				5.08
0.1 - 0.5	5.6B	0.05A	5.1J	3.4	1.3	0.4	0L	9.31				4.30
0.5 - 0.8	6.1B	0.06A	8.3J	7.9	2.1	8.0	0L	18.6	I			4.30
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle S		Size	Analysis	
		С	Р	Р	N	K	Density	G۷	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.98A	3D					15	14F	46	13	12
0.1 - 0.5		0.35A	0D					6	15F	31	8	40
0.5 - 0.8		0.21A	0D					18	4F	9	3	66
0.0 0.0		0.2171	02					.0		Ü	Ü	00
Depth	COLE	Gravimetric/Volumetric Water Contents K sa							at	K unsa	ıt	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/	g - m3/m3	3			mm	/h	mm/h	
0 - 0.1				0.42B			0.0	OR.				
0.1 - 0.5				0.42B				7B				
0.1 - 0.3				0.42B 0.62B			_	7Б 3В				
0.5 - 0.8				U.UZD			0.,	טט				

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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\_GRAV Gravel (%)

P10\_HYD\_C Clay (%) - Hydrometer Method

P10\_HYD\_CS Coarse Sand (%) - Hydrometer Method
P10\_HYD\_FS Fine Sand (%) - Hydrometer Method
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