

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW5      **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>	275 metres
<b>Map Ref.:</b>	Sheet No. : 8327    1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6124900 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	538050    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>	Sgw	<b>Substrate Material:</b>	Granodiorite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	15 %	<b>Aspect:</b>	270 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Gn2.12
		<b>Great Soil Group:</b>	Red earth

**Site Disturbance:** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.2 m	Dark brown (7.5YR3/4-Moist); ; Medium sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Earthy fabric; Moderately moist; Non-plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Diffuse change to -
B	0.2 - 0.6 m	Yellowish red (5YR3/6-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Prismatic; Earthy fabric; Moderately moist; Very plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Gradual change to -
BC	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); Mottles, 2-10% , Faint; Medium heavy clay; Earthy fabric; Moderately moist; Very plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;

**Morphological Notes**

**Observation Notes**

**Site Notes**

15M N OF TRACK

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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	5.4B	0.05A	2.5J	1	0.6	0.3	0L	5.7I		5.26
0.2 - 0.6	5.5B	0.03A	2.6J	2.1	0.6	0.5	0L	9.5I		5.26
0.6 - 0.8	5.8B	0.04A	4.7J	6.8	0.7	0.6	0L	10.4I		5.77

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		1.35A	1D					2	33F	46	11	8
0.2 - 0.6		0.38A	0D					3	43F	22	5	27
0.6 - 0.8		0.25A	0D					3	34F	8	7	48

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	mm/h	mm/h
				g/g -		m3/m3				
0 - 0.2				0.21B				0.04B		
0.2 - 0.6				0.27B				0.11B		
0.6 - 0.8				0.39B				0.19B		

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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
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