

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW295      **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>	207 metres
<b>Map Ref.:</b>	Sheet No. : 8327    1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6091250 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	504125    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Pediment
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4 %	<b>Aspect:</b>	315 degrees

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

**Erosion:**    Stable, Minor (gully)

**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>	Db1.42
		<b>Great Soil Group:</b>	N/A

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.15 m	Dark brown (7.5YR3/4-Moist); ; Fine sandy clay 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; Weak consistence; Slightly plastic; Moderately sticky; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
A2	0.15 - 0.22 m	Reddish brown (5YR4/4-Moist); Pink (7.5YR7/4-Dry); Mottles, 10-20% , Faint; Fine sandy 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; Firm consistence; Non-plastic; Slightly sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Clear change to -
B	0.22 - 0.6 m	Brown (7.5YR4/4-Moist); Mottles, 2-10% , Faint; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Moderately plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 7 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes**

B      A few sandstone pieces.

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Cmol (+)/kg	Acidity			%
0 - 0.15	4.5B	0.1A	3J	1	0.8	0.4	0.5L	4I		10.00
0.15 - 0.22	5.2B	0.03A	1.5J	1	0.3	0.4	0L	6.4I		6.25
0.22 - 0.6	6.1B	0.06A	5.7J	7.1	0.9	1.6	0L	16.8I		9.52

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle	Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.15		1.79A	8D						2F	74	15 9
0.15 - 0.22		0.2A	1D					1	9F	71	9 10
0.22 - 0.6		0.22A	0D					9	8F	42	8 33

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 - 0.15				0.43B				0.07B		
0.15 - 0.22				0.18B				0.03B		
0.22 - 0.6				0.44B				0.18B		

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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