

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW174      **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>	211 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6107525 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	541050 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>	Czg	<b>Substrate Material:</b>	Clay

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Rises
<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>	2 %	<b>Aspect:</b>	270 degrees

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

**Erosion:** Partial, Minor (sheet)

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Red Chromosol Thick Gravelly Sandy		<b>Principal Profile Form:</b>	Dr2.22
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
Confidence level not specified			

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.08 m	Dark brown (7.5YR3/4-Moist); ; Loam; Weak grade of structure, 5-10 mm, Polyhedral; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; Non-plastic; Moderately sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.08 - 0.2 m	Brown (7.5YR4/4-Moist); Strong brown (7.5YR5/6-Dry); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2	0.2 - 0.5 m	Yellowish red (5YR4/8-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; 50-100 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Few (<1 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very firm consistence; Moderately plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.5 - 0.7 m	Strong brown (7.5YR5/6-Moist); Mottles, 10-20% , Faint; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Very plastic; Very sticky; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules, strong, segregations;Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules, strong, segregations;Field pH 7 (Raupach); Few, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site Notes

500M N BRUNSKILL ROAD, OPPOSITE A GATE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h

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Laboratory Analyses Completed for this profile