

**Project Name:** WAGGA WAGGA SOIL LANDSCAPES  
**Project Code:** 1000448      **Site ID:** WW262      **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>	251 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6094300 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	506550 Datum: AGD66	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	Du	<b>Substrate Material:</b>	Gravel

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	12 %	<b>Aspect:</b>	270 degrees

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

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

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Orthic Rudosol Thick Moderately gravelly Peaty Shallow		<b>Principal Profile Form:</b>	Uc4.22
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Lithosol
Confidence level not specified			

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

**Vegetation:**

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, subrounded, ; No surface coarse fragments

**Profile Morphology**

A1	0 - 0.15 m	Very dark brown (7.5YR2/2-Moist); ; Fine sandy loam; Massive grade of structure; 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; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.15 - 0.5 m	Reddish brown (5YR5/4-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Non-plastic; Slightly sticky; 50-90%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Diffuse change to -
C	0.5 - 0.75 m	Reddish brown (5YR5/4-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Non-plastic; Slightly sticky; 50-90%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

**Morphological Notes**

C Slightly redder than layer 2.

**Observation Notes**

All gravels are lithic sandstone. Quarry exposure.

**Site Notes**

300M SE OF DAM

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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	4.4B	0.03A	0.9J	0.4	0.5	0.2	0.2L	2.5I		8.00
0.15 - 0.5	4.3B	0.02A	0.5J	0.5	0.3	0.2	0.5L	2I		10.00

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			%		
0 - 0.15		1.67A	3D					3	11F	73	8	5
0.15 - 0.5		0.25A	2D					43	8F	40	5	4

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	
			g/g - m3/m3						mm/h
0 - 0.15				0.24B				0.05B	
0.15 - 0.5				0.16B				0.03B	

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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