

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW85 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	340 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6094475 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	536750 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Sgf	Substrate Material:	Sand

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Open depression (vale)	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	8 %	Aspect:	315 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Present (stbank)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Um1.43
		Great Soil Group:	Yellow earth

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

Vegetation:

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, subrounded, Quartz; No surface coarse fragments

Profile Morphology

A	0 - 0.12 m	Brown (7.5YR4/3-Moist); ; Coarse sandy clay 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, Moderately moist; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B	0.12 - 0.9 m	Brown (7.5YR4/4-Moist); ; Clay loam, sandy; 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, Moderately moist; Moderately plastic; Very sticky; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 7 (Raupach); Common, fine (1-2mm) roots; Diffuse, Smooth change to -
C1	0.9 - 1.6 m	Brown (10YR5/3-Moist); ; 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; Very firm consistence; Slightly plastic; Moderately sticky; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Field pH 7.5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
C2	1.6 - 3 m	Strong brown (7.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 20-50%, fine gravelly, 2-6mm, subrounded, stratified, Quartz, coarse fragments; Silcrete, Strongly cemented, Continuous, Massive;

Morphological Notes

C1	Variable, with some clay-rich and sand- rich pods.	
C2	Cemented coarse sand hard.	Some near horizontal beddings.

Observation Notes

Terrace formed by old valley filling sediments. Water in stream: 0ms/cm, 6.8pH.

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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 - 0.12	5.4B	0.07A	3.8J	0.8	0.7	0.4	0L	7.7I		5.19
0.12 - 0.9	5.9B	0.16A	4.5J	1.2	0.5	0.4	0L	6.3I		6.35
0.9 - 1.6	6.1B	0.12A	2.2J	1.2	0.5	0.3	0L	4.7I		6.38

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 - 0.12		1.14A	9D					10	31F	34	15	10
0.12 - 0.9		0.41A	4D					12	24F	31	13	20
0.9 - 1.6		0.14A	5D					14	35F	31	13	7

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 - 0.12				0.31B				0.07B		
0.12 - 0.9				0.28B				0.09B		
0.9 - 1.6				0.23B				0.05B		

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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