

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW110 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	172 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6115350 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	501600 Datum: AGD66	Drainage:	Poorly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Clay

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug6.2
		Great Soil Group:	Grey clay

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.08 m	Very dark brown (10YR2/2-Moist); Biological mixing, 2-10% , Distinct; Light medium clay; Strong grade of structure, 5-10 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Moderately plastic; Very sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual change to -
B2	0.08 - 0.5 m	Dark grey (2.5Y4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very plastic; Very sticky; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Soft segregations, weak, segregations;Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations, weak, segregations;Field pH 7.5 (Raupach); Common, fine (1-2mm) roots; Gradual change to -
B3	0.5 - 0.7 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Very plastic; Very sticky; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A	Mottle of decayed roots.
B2	A thick root cracked by auger.
B3	Possibly some tiny carbonate

Observation Notes

Pit to 30cm, auger to 75cm

Site Notes

30M IN FENCE

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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 - 0.08	5.2B	0.09A	17.5J	10.7	1.7	0.7	0L	27.6l		2.54
0.08 - 0.5	6.3B	0.09A	11.1J	9.9	0.8	2.7	0L	21.4l		12.62
0.5 - 0.7	7.1B	0.11A	9.8J	9.7	0.7	3.2	0L	20.3l		15.76

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 - 0.08		4.23A	2D					2	1F	21	12	64
0.08 - 0.5		0.5A	0D					1	1F	20	19	59
0.5 - 0.7		0.28A	6D						2F	22	18	58

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 - 0.08				0.58B				0.31B		
0.08 - 0.5				0.59B				0.25B		
0.5 - 0.7				0.61B				0.24B		

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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