

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW117 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	381 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6078725 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	542950 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	No Data
Slope:	3 %	Aspect:	315 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Minor (sheet)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy2.43
		Great Soil Group:	N/A

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark brown (7.5YR3/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.08 - 0.22 m	Light brownish grey (10YR6/2-Moist); Mottles, 2-10% , Distinct; Sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Slightly plastic; Moderately sticky; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules, strong, segregations; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B	0.22 - 0.65 m	Yellowish brown (10YR5/4-Moist); Mottles, 0-2% , Faint; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very plastic; Very sticky; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
BC	0.65 - 0.85 m	Light olive brown (2.5Y5/4-Moist); Mottles, 2-10% , Faint; Medium heavy clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moist; Very plastic; Very sticky; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 9.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

A2 Very high silt content.

Observation Notes

Pit to 35cm, auger to 85cm Nearby pondy water: conductivity 110 x 100 us.

Site Notes

OPPOSITE TO GATE

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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	4.4B	7A	0.9J	2.6	0.4	0.8	0.3L	4.2I		19.05
0.08 - 0.22	4.4B	0.35A	0.2J	1.9	0.2	0.9	0L	1.9I		47.37
0.22 - 0.65	4.4B	0.1A	1.3J	12.3	0.3	3.7	0.3L	14.9I		24.83
0.65 - 0.85	6.6B	0.08A	3.7J	15.3	0.3	5.1	0L	18.4I		27.72

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		2.42A	2D						2F	57	30	11
0.08 - 0.22		0.14A	0D						2F	46	45	7
0.22 - 0.65		0.22A	0D							16	31	53
0.65 - 0.85		0.12A	0D							14	33	53

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 - 0.08				0.6B				0.11B	
0.08 - 0.22				0.35B				0.04B	
0.22 - 0.65				0.5B				0.26B	
0.65 - 0.85				0.52B				0.25B	

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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_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