

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW103 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	185 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6126550 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	504505 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Sgc	Substrate Material:	Sand

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	45 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Uc1.23
		Great Soil Group:	Siliceous sand

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.12 m	Dark reddish brown (5YR3/4-Moist); ; Loamy fine sand; 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, Moderately moist; Non-plastic; Slightly sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
C	0.12 - 0.55 m	Yellowish red (5YR4/6-Moist); ; Medium sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Non-plastic; Non-sticky; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Abrupt, Wavy change to -
2A	0.55 - 0.7 m	Dark reddish brown (5YR3/4-Moist); ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Non-plastic; Non-sticky; Field pH 6 (Raupach); Few, fine (1-2mm) roots; Gradual change to -
2C	0.7 - 1.35 m	Yellowish red (5YR5/6-Moist); ; Medium sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Non-plastic; Non-sticky; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

C	Well-sorted medium sand
2A	Buried soil (A)
2C	Well-sorted medium sand, more compact than layers 1 and 2.

Observation Notes

At a sand-sheet rise

Site Notes

BATTER THROUGH A SMALL RISE

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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	5.9B	0.03A	1.4J	0.3	0.5	0.2	0L	3l		6.67
0.12 - 0.55	6B	0.02A	0.6J	0.2	0.4	0.3	0L	3l		10.00
0.7 - 1.35	4.6B	0.03A	0.5J	0.3	0.3	0.3	0L	2.9l		10.34

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		0.43A	6D						55F	41	2	2
0.12 - 0.55		0.05A	3D						62F	36	2	
0.7 - 1.35		0.04A	1D						56F	36	3	5

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				0.1B				0.02B		
0.12 - 0.55				0.05B				0.01B		
0.7 - 1.35				0.08B				0.02B		

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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