

Project Name: WAGGA WAGGA SOIL LANDSCAPES
Project Code: 1000448 **Site ID:** WW245 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Chen, XY	Locality:	
Date Desc.:	15/07/93	Elevation:	294 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6091100 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	513700 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	Du	Substrate Material:	Sandstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8 %	Aspect:	315 degrees

Surface Soil Condition (dry): Hardsetting

Erosion: Partial, Moderate (sheet)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Paralithic Leptic Rudosol Thick Gravelly Sandy		Principal Profile Form:	Um1.43
ASC Confidence:		Great Soil Group:	Lithosol
Confidence level not specified			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, subangular, Sandstone; No surface coarse fragments; No surface coarse fragments

Profile Morphology

A	0 - 0.18 m	Dark reddish brown (5YR3/3-Moist); ; Loam; Weak grade of structure, 5-10 mm, Angular blocky; 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; Slightly plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Sandstone, coarse fragments; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B	0.18 - 0.5 m	Yellowish red (5YR4/8-Moist); ; Fine 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, Dry; Firm consistence; Slightly plastic; Moderately sticky; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Sandstone, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Clear change to -
2B	0.5 - 0.6 m	Red (2.5YR4/8-Moist); Mottles, 10-20% , Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; 100-200 mm, Prismatic; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; Moderately plastic; Very sticky; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

2B Palaeosol

Observation Notes

Quarry exposure.

Site Notes

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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 - 0.18	4.7B	0.05A	3.8J	1.8	1	0.3	0L	8I		3.75
0.18 - 0.5	4B	0.03A	0.3J	0.8	0.4	0.3	1.6L	7.7I		3.90
0.5 - 0.6	3.9B	0.02A	0.6J	3.9	1.4	0.9	3.2L	10.6I		8.49

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 - 0.18		2.85A	3D					8	12F	62	8	10
0.18 - 0.5		0.31A	1D					16	16F	46	6	16
0.5 - 0.6		0.23A	0D					2	5F	40	7	46

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 - 0.18				0.52B				0.11B		
0.18 - 0.5				0.31B				0.1B		
0.5 - 0.6				0.47B				0.19B		

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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