Project Name: WAGGA WAGGA SOIL LANDSCAPES

Project Code: 1000448 Site ID: WW43 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Chen, XY Locality:

 Date Desc.:
 15/07/93
 Elevation:
 220 metres

 Map Ref.:
 Sheet No.: 8327
 1:25000
 Rainfall:
 No Data

 Northing/Long.:
 6095025 AMG zone: 55
 Runoff:
 Slow

Easting/Lat.: 508450 Datum: AGD66 Drainage: Moderately well drained

<u>Geology</u>

ExposureType: Existing vertical exposure Conf. Sub. is Parent. Mat.: No Data Substrate Material: Clay

Land Form

Rel/Slope Class:No DataPattern Type:PedimentMorph. Type:FlatRelief:No DataElem. Type:FootslopeSlope Category:No DataSlope:2 %Aspect:45 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (sheet) Active, Severe (gully)

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
N/A Principal Profile Form: Db2.42
ASC Confidence: Great Soil Group: N/A

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.25 m Dark brown (7.5YR3/4-Moist); ; 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, Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Weak consistence; Slightly plastic; Slightly sticky; Field pH 6 (Raupach); Many, fine (1-2mm) roots;

Few, coarse (>5mm) roots; Gradual, Smooth change to -

A2 0.25 - 0.45 m Pinkish grey (7.5YR6/3-Moist); Pinkish yellow (7.5YR8/2-Dry); ; Fine sandy 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, Few (<1 per 100mm2) Medium (2-5mm) macropores, Dry; Weak consistence; Non-plastic; Non-sticky; Field pH 6.5 (Raupach); Few, fine

(1-2mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -

B 0.45 - 1.5 m Strong brown (7.5YR4/6-Moist); Mottles, 20-50%, Distinct; Fine sandy light medium clay; Strong

grade of structure, 50-100 mm, Angular blocky; 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Very firm consistence; Moderately plastic; Moderately sticky; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Few, coarse (>5mm) roots;

Gradual, Smooth change to -

C 1.5 - 2.5 m Yellowish brown (10YR5/4-Moist); Mottles, 2-10%, Distinct; Light medium clay; Strong grade of

structure, 50-100 mm, Prismatic; 20-50 mm, Columnar; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very plastic; Very sticky; Common cutans, 10-50% of ped faces or walls coated, distinct; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Nodules, strong, segregations; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules, strong,

segregations; Field pH 8 (Raupach);

Morphological Notes

C 5m from the profile site.

Observation Notes

Site Notes

40M FROM TRACK, ON W SIDE OF GULLY

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na E	xchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Ca	wig	K	Cmol (+)						%
0 - 0.25	6B	0.07A	6.2J	2.5	0.9	0.3	0L	11.1	I			2.70
0.25 - 0.45	5.8B	0.02A	1J	0.4	0.4	0.2	0L	3.91				5.13
0.45 - 1.5	4.5B	1.34A	4.4J	5.7	0.5	8.0	0L	11.4	H			7.02
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysi	s
•		Č	Р	Р	N	K	Density	G۷	cs	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		-
0 - 0.25		1.27A	3D					3	22F	61	10	7
0.25 - 0.45		0.05A	1D					2	23F	51	19	5
0.45 - 1.5		0.12A	0D					2	8F	45	13	
Depth	COLE		Gravimetric/Volumetric Water Contents K sat							K unsa	at	
-		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m			g/g - m3/m3							/h	mm/h	
0 - 0.25				0.42B			0.0)5B				
0.25 - 0.45				0.23B			0.0	08B				
0.45 - 1.5				0.47B			0.1	14B				

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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
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