Project Name: WAGGA WAGGA SOIL LANDSCAPES Project Code: Agency Name: 1000448 Site ID: WW148 **CSIRO** Division of Soils (ACT)

Site Information

Site Inf	formation	<u>1</u>							
Desc. B			Locality:						
	e Desc.: 15/07/93		Elevation:	279 metres					
Map Ret	f.:	Sheet No. : 8327 1:25000	Rainfall:	No Data					
	g/Long.:	6107225 AMG zone: 55	Runoff:	Moderate					
Easting	/Lat.:	527575 Datum: AGD66	Drainage:	Moderate	y well dr	ained			
Geolog	av.								
Exposu	reType:	Existing vertical exposure	Conf. Sub. is Pare	nt. Mat.:	No Data	a			
Geol. Re		Ou	Substrate Material	:	Clay				
Land F	orm		,						
		No Data	Dettern Turner	Levy bille					
			Pattern Type: Relief:	No Data	ow hills				
Morph. Type: Elem. Type:		Open depression (vale) Valley flat	Slope Category:	No Data					
Slope:	ype.	4 %	Aspect:	0 degrees					
•			Азресі.	0 degrees)				
Surface		ndition (dry): Hardsetting							
Erosio		l, Moderate (gully)							
Soil Cla	assificati	<u>on</u>							
Australi	ian Soil Cl	assification:	Manni	ng Unit:		N/A			
		Brown Chromosol Thick Moderately		bal Profile	Form:	Db2.42			
Sandy		Slowin Chilomosol Thick Moderately	graveny inici		i onn.	002.42			
	onfidence:		Creat		_	N/A			
			Great	Soil Group	•	N/A			
		not specified							
	sturbanc	<u>e:</u>							
Vegeta	tion:								
Surface	e Coarse	Fragments:							
Profile	Morphol	ogv							
A1	0 - 0.3 m	Dark brown (10YR3/3-Moist	t): · Fine sandy clay lo	am: Mode	rate orac	de of structure 50-100 mm			
///	0 0.0 m	Prismatic; Rough-ped fabric							
		Common (1-5 per 100mm2)							
		Moderately sticky; Very few	(0 - 2%) Ferroman	naniferous	Fine (0 -	2 mm) Nodules strong			
		segregations;Very few (0 - 2							
		segregations; Field pH 5.5 (I							
		5 5 7 1 (1 // 3/	· · ·	,	<i>,</i> 3			
A2	0.3 - 0.55	m Brown (10YR5/3-Moist); Lig	ht grey (10YR7/2-Dry	/); ; Silty cla	ay loam;	Massive grade of structure;			
						pores, Many (>5 per 100mm2)			
		Eine (1.2mm) maaronaraa	Dry Firm consistence	e; Slightly p	lastic; M	oderately sticky; Few (2 - 10			
		Fine (1-zmin) maciopores,	2.,,						
		%), Ferromanganiferous, Fi		es, strong,	segregat				
			ine (0 - 2 mm), Nodul			tions;Few (2 - 10 %),			
		%), Ferromanganiferous, Fi	ine (0 - 2 mm), Nodul ım (2 -6 mm), Nodule	s, strong, s		tions;Few (2 - 10 %),			
		%), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang	s, strong, s ge to -	egregati	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach);			
В	0.55 - 1.2	%), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr m Dark yellowish brown (10YF	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang R4/4-Moist); Mottles,	s, strong, s ge to - 20-50% , Fa	egregati	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach); tles, 2-10% , Distinct;			
В	0.55 - 1.2	%), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr m Dark yellowish brown (10YF Medium clay; Moderate gra	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang R4/4-Moist); Mottles, de of structure, 20-50	s, strong, s ge to - 20-50% , Fa) mm, Suba	egregati aint; Mot Ingular b	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach); ttles, 2-10% , Distinct; locky; 100-200 mm,			
В	0.55 - 1.2	 %), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr m Dark yellowish brown (10YF Medium clay; Moderate grad Prismatic; Smooth-ped fabri 	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang R4/4-Moist); Mottles, de of structure, 20-50 ic; Few (<1 per 100m	s, strong, s ge to - 20-50% , F) mm, Suba m2) Very fi	egregati aint; Mot ingular b ne (0.07	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach); tles, 2-10% , Distinct; locky; 100-200 mm, 5-1mm) macropores, Dry;			
В	0.55 - 1.2	 %), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr m Dark yellowish brown (10YF Medium clay; Moderate grad Prismatic; Smooth-ped fabri Strong consistence; Moderate 	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang R4/4-Moist); Mottles, de of structure, 20-50 ic; Few (<1 per 100m ately plastic; Very stic	s, strong, s ge to - 20-50% , Fa 0 mm, Suba m2) Very fi ky; Very fe	egregati aint; Mot Ingular b ne (0.07 w (0 - 2 9	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach); ttles, 2-10% , Distinct; locky; 100-200 mm, 5-1mm) macropores, Dry; %), Ferromanganiferous,			
В	0.55 - 1.2	 %), Ferromanganiferous, Fi Ferromanganiferous, Mediu Few, fine (1-2mm) roots; Gr m Dark yellowish brown (10YF Medium clay; Moderate grad Prismatic; Smooth-ped fabri Strong consistence; Moderate 	ine (0 - 2 mm), Nodul im (2 -6 mm), Nodule radual, Smooth chang R4/4-Moist); Mottles, de of structure, 20-50 ic; Few (<1 per 100m ately plastic; Very stic trong, segregations; V	s, strong, s ge to - 20-50% , Fa 0 mm, Suba m2) Very fe ky; Very fe ′ery few (0	egregati aint; Mot ngular b ne (0.07 w (0 - 2 ° - 2 %), F	tions;Few (2 - 10 %), ons;Field pH 7 (Raupach); tles, 2-10% , Distinct; locky; 100-200 mm, 5-1mm) macropores, Dry; %), Ferromanganiferous, ferromanganiferous, Medium			

Observation ID: 1

Morphological Notes

Bottom 'intrudes' to layer 3. A2

High silt.

Observation Notes

Red soil at a nearby gully in west.

Site Notes

15M IN FENCE, W SIDE OF EASTERN GULLY

Project Name:	WAGGA WAGG	6A SOIL LA	NDSCAPES		
Project Code:	1000448	Site ID:	WW148	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	NCT)		

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	e Cations K	E Na	xchangeabl Acidity	e CEC		ECEC		ESP
m		dS/m	Ga	wig	ĸ	Cmol (+)						%
0 - 0.3 0.3 - 0.55 0.55 - 1.2	4.7B 5.8B 6.1B	0.06A 0.03A 0.21A	4.1J 3J 4.7J	1.3 2.2 6.2	0.4 0.4 0.5	0.3 0.7 3.1	OL OL OL	9.9 7.1 14.3	l		1	3.03 9.86 21.68
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk		article		Analysi	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3		CS	FS %	Silt	Clay
0 - 0.3 0.3 - 0.55 0.55 - 1.2		1.13A 0.12A 0.08A	1D 0D 0D					9 2	9F 13F 14F	53 44 33	22 21 13	16 13 38
Depth	COLE	Gravimetric/Volumetric Water Contents K sat K unsat					ıt					
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar	15 Bar	mm	/h	mm/h	
0 - 0.3 0.3 - 0.55 0.55 - 1.2				0.42B 0.34B 0.45B				0.1B 0.08B 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 a/a - Gravimetric using pressure plate

P3B_GV_15 15 BAR Moisture g/g - Gravimetric using pressure plate