

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS36 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	232 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6101467 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	543347 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Quartz

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	7 %	Aspect:	180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Mesotrophic Yellow Chromosol Medium		Principal Profile Form:	N/A
Non-gravelly Loamy Clayey Very deep			
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.04 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
A2	0.04 - 0.27 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR7/5-Dry); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B1	0.27 - 0.57 m	Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
B21	0.57 - 1.16 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Prominent; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6 (Raupach);
B22	1.16 - 2 m	Brownish yellow (10YR6/6-Moist); Mottles, 20-50% , Prominent; Mottles, 10-20% , Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

Observation Notes

Site Notes

S. CLARKE, SAMARRA

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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 - 0.04	5.65A	0.217A	2.1J	0.94	0.92	0.13		6.4I		2.03
0.04 - 0.27	4.75A	0.076A	0.27J	0.12	0.14	0.03		2.2I		1.36
0.27 - 0.57	5.77A	0.027A	2.7J	2	0.25	0.1		7.1I		1.41
0.57 - 1.16	6.21A	0.03A	1.8J	4.4	0.16	0.33		8.8I		3.75
1.16 - 2	7.69A	0.049A	2.5J	7.8	0.21	2		14.4I		13.89

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		2.82C							82I		4	14
0.04 - 0.27		0.24C							80I		14	6
0.27 - 0.57		0.35C							50I		12	38
0.57 - 1.16		0.13C							50I		12	38
1.16 - 2		0.08C							39I		11	50

[illegible]

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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
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15L1	Base saturation percentage (BSP)
15N1	Exchangeable sodium percentage (ESP)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded