Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS85** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: McKane, Dermot
Date Desc.: 15/07/93
Map Ref.: Sheet No. : 8427 DGPS
Northing/Long.: 6108614 AMG zone: 55
Easting/Lat.: 546875 Datum: AGD66
Locality:
Elevation: 201 metres
Rainfall: No Data
Runoff: Slow
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Open depression (vale)
Elem. Type: Drainage depression
Slope: 4 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition (dry): Firm

Erosion: Partial, Minor (rill)

Soil Classification

Australian Soil Classification:
Bleached-Mottled Class Undetermined Red Chromosol Medium Non-gravelly Loamy Clayey Deep
Mapping Unit: N/A
Principal Profile Form: N/A
ASC Confidence:
Confidence level not specified
Great Soil Group: N/A

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.06 m	Brown (7.5YR4/3-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, Dry; Very weak consistence; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots;
A2	0.06 - 0.26 m	Strong brown (7.5YR5/6-Moist); Pinkish white (7.5YR8/3-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, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments;
B1	0.26 - 0.46 m	Strong brown (7.5YR5/6-Moist); , 20-50% , Prominent; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular tabular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 6.5 (Raupach);
B21	0.46 - 1.18 m	Yellowish red (5YR5/6-Moist); , 20-50% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 7 (Raupach);
C	1.18 - 1.4 m	Brownish yellow (10YR6/6-Moist); ; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 7.5 (Raupach);

Morphological Notes

A1 Slight hydro.

Observation Notes

Site Notes

L. RYAN, GLANDORE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.06	4.7A	0.352A	0.89J	0.28	0.88	0.01		3.6I		0.28
0.06 - 0.26	4.67A	0.083A	0.37J	0.11	0.18	0.02		6I		0.33
0.26 - 0.46	5.91A	0.025A	2.7J	1.2	0.22	0.04		10.7I		0.37
0.46 - 1.18	7.47A	0.037A	4.2J	4.5	0.48	0.37		5.3I		6.98
1.18 - 1.4	8.42A	0.044A	6.8J	7.2	0.72	1.1		16.1I		6.83

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		1.76C							66I		17	17
0.06 - 0.26		0.36C							82I		4	14
0.26 - 0.46		0.23C							50I		12	38
0.46 - 1.18		0.11C							50I		12	38
1.18 - 1.4		0.09C							50I		12	38

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.06									
0.06 - 0.26									
0.26 - 0.46									
0.46 - 1.18									
1.18 - 1.4									

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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