Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS62** **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.: 6106260 AMG zone: 55
Easting/Lat.: 546960 Datum: AGD66
Locality:
Elevation: 204 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Poorly 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: No Data
Elem. Type: No Data
Slope: 4 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Class Undetermined Red Chromosol Thick Non-gravelly Clay-loamy Clayey Very deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
Confidence level not specified

Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/4-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, Very weak consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); Common, very
A2	0.1 - 0.33 m	Reddish yellow (7.5YR6/6-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, Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
B21	0.33 - 0.63 m	Yellowish red (5YR4/8-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Many cutans, >50% of ped faces or walls coated; Field pH 7 (Raupach);
B22	0.63 - 1.33 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; Field pH 7 (Raupach);
B3	1.33 - 2.1 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Siltstone, coarse fragments; Field pH 8 (Raupach);

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

D. BYE

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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 - 0.1	4.98A	0.089A	0.57J	0.19	0.61	0.03		4.4I		0.68
0.1 - 0.33	5.81A	0.026A	0.69J	0.24	0.28	0.06		2.1I		2.86
0.33 - 0.63	7.01A	0.033A	5.6J	6.7	1.1	0.36		15.7I		2.29
0.63 - 1.33	8.24A	0.065A	4.2J	7.2	0.8	0.85		12.5I		6.80
1.33 - 2.1	8.5A	0.072A	2.6J	5.3	0.46	1		9.4I		10.64

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 - 0.1		1.66C							73I		3	24
0.1 - 0.33		0.22C							82I		4	14
0.33 - 0.63		0.27C							44I		12	44
0.63 - 1.33		0.11C							44I		12	44
1.33 - 2.1		0.15C							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 - 0.1									
0.1 - 0.33									
0.33 - 0.63									
0.63 - 1.33									
1.33 - 2.1									

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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