Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS28** **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.: 6108133 AMG zone: 55
Easting/Lat.: 545621 Datum: AGD66
Locality:
Elevation: 200 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 12 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Bleached Mesotrophic Red Kandosol Thin Slightly gravelly Loamy Clay-loamy 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 - 0.07 m	Strong brown (7.5YR4/6-Moist); ; Loam; Weak grade of structure, <2 mm, Granular; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, rounded platy, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Few, very fine (0-1mm) roots;
A2	0.07 - 0.31 m	Yellowish red (5YR4/6-Moist); Pink (7.5YR7/4-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular platy, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B21	0.31 - 0.6 m	Yellowish red (5YR4/8-Moist); ; Clay loam, sandy; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
C	0.6 - 1 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, <2 mm, Subangular blocky; Smooth-ped fabric; 20-50%, medium gravelly, 6-20mm, subangular, dispersed, Quartz, coarse fragments; Field pH 7 (Raupach);

Morphological Notes

A1 Hydrophobic.

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 - 0.07	4.98A	0.101A	1.8J	0.39	0.66	0		6.4I		0.00
0.07 - 0.31	5.31A	0.042A	0.81J	0.25	0.29	0		2.8I		0.00
0.31 - 0.6	6.36A	0.027A	1.9J	1.2	0.33	0.02		4.2I		0.48
0.6 - 1	6.88A	0.031A	2.5J	2.6	0.25	0.03		6.2I		0.48

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 - 0.07		3.09C							66I		17	17
0.07 - 0.31		0.29C							82I		4	14
0.31 - 0.6		0.15C							60I		11	29
0.6 - 1		0.13C							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 - 0.07										
0.07 - 0.31										
0.31 - 0.6										
0.6 - 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