Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS41** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	210 metres
Map Ref.:	Sheet No. : 8427 DGPS	**Rainfall:**	No Data
Northing/Long.:	6104460 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	547377 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:	6 %	**Aspect:**	270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Mesotrophic 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:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;
A2	0.08 - 0.23 m	Yellowish red (5YR4/6-Moist); Reddish yellow (7.5YR7/6-Dry); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B1	0.23 - 0.43 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;
B21	0.43 - 0.65 m	Yellowish red (5YR5/8-Moist); Mottles, 20-50% , Prominent; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Field pH 6 (Raupach);
B22	0.65 - 1.38 m	Strong brown (7.5YR5/8-Moist); Mottles, 20-50% , Prominent; Light 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

A1 Hydrophobic.

Observation Notes

Site Notes

B. MILLER, CASEBROOK

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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 - 0.08	5.31A	0.089A	2.5J	0.74	0.95	0.14		7.5I		1.87
0.08 - 0.23	5.07A	0.084A	0.48J	0.2	0.69	0.03		3.2I		0.94
0.23 - 0.43	5.45A	0.081A	3J	1.9	1	0.08		7.9I		1.01
0.43 - 0.65	6.08A	0.047A	3J	3.3	0.54	0.09		8.8I		1.02
0.65 - 1.38	6.89A	0.038A	2.1J	5.6	0.3	0.53		10.1I		5.25

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 - 0.08		4.76C							82I		4	14
0.08 - 0.23		0.45C							80I		14	6
0.23 - 0.43		0.34C							50I		12	38
0.43 - 0.65		0.31C							50I		12	38
0.65 - 1.38		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 - 0.08										
0.08 - 0.23										
0.23 - 0.43										
0.43 - 0.65										
0.65 - 1.38										

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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