Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **BD44** **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. : 8327 1:25000
Northing/Long.: 6120989 AMG zone: 55
Easting/Lat.: 536438 Datum: AGD66
Locality:
Elevation: 220 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

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: 3 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Hypocalcic Red Dermosol Medium Non-gravelly 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 - 0.12 m	Reddish brown (5YR4/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
A3	0.12 - 0.46 m	Yellowish red (5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B1	0.46 - 0.77 m	Yellowish red (5YR5/8-Moist); Mottles, 2-10% , Faint; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Gypseous, , ; Few, very fine (0-1mm) roots; Clear change to -
B21	0.77 - 1.29 m	Yellowish red (5YR4/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Gypseous, , ; Clear change to -
B22	1.29 - 2 m	Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Gypseous, , ; Gradual change to -

Morphological Notes

Observation Notes

Site Notes

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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 - 0.12	5.22A	0.043A	2.2J	0.39	0.58	0.02		5.9I		0.34
0.12 - 0.46	6.18A	0.02A	5.6J	2.2	0.19	0.1		9.8I		1.02
0.46 - 0.77	6.69A	0.033A	6.3J	5	0.44	0.05		13.6I		0.37
0.77 - 1.29	6.05A	0.054A	5.7J	4.9	0.65	0.08		13.1I		0.61
1.29 - 2	7A	0.027A	8J	6.5	0.76	0.2		17.2I		1.16

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 - 0.12		1.01C							23.2I		14.9	61.9
0.12 - 0.46		0.61C							40.5I		11.2	48.3
0.46 - 0.77		0.34C							65.1I		9.5	25.4
0.77 - 1.29		0.28C							58.8I		11.2	30
1.29 - 2		0.07C							62.3I		8.9	28.8

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 - 0.12										
0.12 - 0.46										
0.46 - 0.77										
0.77 - 1.29										
1.29 - 2										

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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