

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD73 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	216 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6122730 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	533330 Datum: AGD66	Drainage:	No Data

Geology

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

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:	2 %	Aspect:	225 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A
Confidence level not specified		

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.12 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
B1	0.12 - 0.43 m	Red (2.5YR4/8-Moist); ; Light clay; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.43 - 0.65 m	Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Distinct; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B22	0.65 - 1.22 m	Brownish yellow (10YR6/6-Moist); Mottles, 2-10% , Distinct; Mottles, 2-10% , Faint; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Clear change to -
B23	1.22 - 1.85 m	Red (2.5YR5/6-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Distinct; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity			%
							(+)/kg			
0 - 0.12	5.28A	0.029A	2.1J	0.62	0	0.55		6.3I		8.73
0.12 - 0.43	6.28A	0.015A	3.8J	2.1	0.47	0		8.5I		0.00
0.43 - 0.65	6.77A	0.016A	3.9J	3.2	0.33	0		9I		0.00
0.65 - 1.22	6.63A	0.04A	6.5J	4.7	0.61	0.02		13.8I		0.14
1.22 - 1.85	7.08A	0.075A	7.2J	7.4	0.97	0.18		19.4I		0.93

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	Silt
		%	mg/kg	%	%	%	Mg/m3		FS	Clay
									%	
0 - 0.12		1.05C						30.4I		17.2
0.12 - 0.43		0.28C						44.9I		10.6
0.43 - 0.65		0.15C						43.6I		15.1
0.65 - 1.22		0.22C						52.5I		12.4
1.22 - 1.85		0.27C						53.7I		16.5

[illegible]

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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