

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD71 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	218 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6121710 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	536090 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:	3 %	Aspect:	90 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 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear change to -
B1	0.1 - 0.48 m	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.48 - 0.85 m	Yellowish brown (10YR5/6-Moist); Mottles, 10-20% , Faint; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B22	0.85 - 1.68 m	Very pale brown (10YR7/3-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Faint; Light medium clay; Moderate grade of structure, 10-20 mm, Platy; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations; Clear change to -
B23	1.68 - 2 m	Light grey (10YR7/2-Moist); Mottles, 10-20% , Faint; Mottles, 2-10% , Faint; Light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Fragments;

Morphological Notes

B22 Mottle, red, faint, 2-10%

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 Cmol (+)/kg	Acidity		%
0 - 0.1	5.11A	0.087A	3J	0.92	0.71	0.12		7.1I	1.69
0.1 - 0.48	5.86A	0.025A	3J	2	0.34	0.1		7.5I	1.33
0.48 - 0.85	5.97A	0.032A	2.6J	3.3	0.22	0.22		8.2I	2.68
0.85 - 1.68	7.37A	0.079A	5.4J	7.1	0.64	0.44		17I	2.59
1.68 - 2	8.46A	0.043A	8.7J	10.5	0.73	0.88		21I	4.19

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.69C							29.6I		22.4	48
0.1 - 0.48		0.27C							40.7I		16.8	42.5
0.48 - 0.85		0.09C							49.7I		14.8	35.5
0.85 - 1.68		0.22C							50.9I		13.8	35.3
1.68 - 2		0.07C							53.4I		11.3	35.3

[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