

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD70 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	233 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6124230 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	535230 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:	270 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 - 0.11 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; 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, subrounded, dispersed, coarse fragments; Many, very fine (0-1mm) roots; Clear change to -
B1	0.11 - 0.55 m	Yellowish red (5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Diffuse change to -
B21	0.55 - 1.4 m	Yellowish brown (10YR5/8-Moist); Mottles, 0-2% , Faint; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations;Clear change to -
B22	1.4 - 2 m	Strong brown (7.5YR5/8-Moist); Mottles, 10-20% , Faint; Mottles, 2-10% , Faint; Light clay; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Fragments, strong, segregations;Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.11	5.44A	0.047A	3.2J	0.85	0.89	0.02		7.7I		0.26
0.11 - 0.55	5.92A	0.014A	3.8J	2.5	0.65	0.04		9.3I		0.43
0.55 - 1.4	6.57A	0.081A	7.6J	12.1	1.2	0.3		22.6I		1.33
1.4 - 2	8.25A	0.15A	19.6J	19	1.4	0.53		31.5I		1.68

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 - 0.11		1.52C						27.8I		14
0.11 - 0.55		0.45C						46.3I		9.6
0.55 - 1.4		0.31C						74.1I		10.4
1.4 - 2		0.27C						63.4I		20.6

[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