

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD57 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	256 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6124253 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	538418 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:	180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Red Dermosol Medium Non-gravelly 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 - 0.14 m	Dark reddish brown (5YR3/3-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%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , ; Few, very fine (0-1mm) roots; Clear change to -
B1	0.14 - 0.77 m	Red (2.5YR5/8-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, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.77 - 1.51 m	Red (2.5YR4/6-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, , ; Clear change to -
B21	1.51 - 2 m	Yellowish red (5YR5/8-Moist); Mottles, 10-20% , Faint; Mottles, 2-10% , Distinct; Light medium clay; Strong 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, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated;

Morphological Notes

B21	Very slippery when wet, possibly high sodic levels.
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Observation 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 - 0.14	4.66A	0.189A	3.9J	0.49	1.1	0		9.2I		0.00
0.14 - 0.77	7.39A	0.061A	8.3J	1.8	0.49	0.06		11.6I		0.52
0.77 - 1.51	6.5A	0.054A	7.6J	4.2	0.82	0.14		16.6I		0.84
1.51 - 2	7A	0.089A	12.2J	6.9	1.1	0.28		23.6I		1.19

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 - 0.14		2.25C						25.8I		20.9
0.14 - 0.77		0.29C						47.2I		11.4
0.77 - 1.51		0.21C						61.2I		11.6
1.51 - 2		0.31C						58.3I		20.8

[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