

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS50 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	286 metres
Map Ref.:	Sheet No. : 8427 DGPS	Rainfall:	No Data
Northing/Long.:	6102165 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	549107 Datum: AGD66	Drainage:	Moderately well drained

Geology

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

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:	10 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached Mesotrophic Red Dermosol Medium Slightly gravelly Clay-loamy Clayey 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); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach);
A2	0.1 - 0.31 m	Reddish brown (5YR5/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 50-90%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 6 (Raupach);
B21	0.31 - 0.6 m	Red (2.5YR4/6-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach);
B22	0.6 - 0.82 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6.5 (Raupach);
C	0.82 - 1.02 m	Light brownish grey (10YR6/2-Moist); Mottles, 20-50% , Prominent; Mottles, 10-20% , Distinct; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 6.5

Morphological Notes

Observation Notes

Site Notes

B. MILLER, CASEBROOK

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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	5.87A	0.093A	5.3J	1.2	1.3	0.11		9.9I	1.11
0.1 - 0.31	6.03A	0.053A	1.6J	0.63	0.42	0.08		2.9I	2.76
0.31 - 0.6	6.45A	0.058A	4.5J	4.4	1.3	0.16		11I	1.45
0.6 - 0.82	6.88A	0.04A	5.7J	9.3	0.58	0.18		15.7I	1.15
0.82 - 1.02	6.93A	0.025A	3.3J	6.1	0.35	0.19		9.4I	2.02

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		3.65C							73I		3	24
0.1 - 0.31		0.35C							56I		15	29
0.31 - 0.6		0.22C							50I		12	38
0.6 - 0.82		0.16C							39I		11	50
0.82 - 1.02		0.07C							50I		12	38

[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