

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS78 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	177 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6102521 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	544444 Datum: AGD66	Drainage:	No Data

Geology

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

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:	1 %	Aspect:	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Mottled Class Undetermined Yellow Chromosol		Principal Profile Form:	N/A
Thick Non-gravelly Clay-loamy Clayey Very deep			
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Brown (7.5YR5/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots;
A2	0.13 - 0.3 m	Reddish yellow (7.5YR6/6-Moist); Very pale brown (10YR8/3-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Field pH 6.5 (Raupach);
B1	0.3 - 0.5 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 6.5 (Raupach);
B21	0.5 - 1.5 m	Brownish yellow (10YR6/8-Moist); Mottles, 20-50% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Field pH 6.5 (Raupach);
B22	1.5 - 2 m	Very pale brown (10YR7/3-Moist); Mottles, 10-20% , Prominent; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; Many (20 - 50 %), Ferromanganiferous, , ; Field pH 6.5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

B.CLARE, SPRINGFIELD

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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 - 0.13	4.86A	0.054A	0.76J	0.29	0.31	0.01		3.7I	0.27
0.13 - 0.3	4.63A	0.081A	0.36J	0.14	0.14	0		1.5I	0.00
0.3 - 0.5	5.6A	0.035A	2.1J	1.2	0.33	0.02		4.7I	0.43
0.5 - 1.5	6.45A	0.067A	4.9J	6	0.65	0.43		14I	3.07
1.5 - 2	6.84A	0.048A	5J	5.9	0.39	0.89		12.8I	6.95

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 - 0.13		1.23C							73I		3	24
0.13 - 0.3		0.13C							82I		4	14
0.3 - 0.5		0.28C							50I		12	38
0.5 - 1.5		0.18C							50I		12	38
1.5 - 2		0.09C							44I		12	44

[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