

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS11 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	236 metres
Map Ref.:	Sheet No. : 8427 DGPS	Rainfall:	No Data
Northing/Long.:	6105482 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	545649 Datum: AGD66	Drainage:	Well drained

Geology

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

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:	13 %	Aspect:	90 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Mesotrophic Red Chromosol Medium Moderately gravelly Loamy Clayey Moderately deep		Principal Profile Form:	N/A

ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.02 m	Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;
A2	0.02 - 0.2 m	Yellowish red (5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Medium (2-5mm) macropores, Dry; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5.5 (Raupach);
B21	0.2 - 0.57 m	Yellowish red (5YR5/8-Moist); ; Coarse sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Medium (2-5mm) macropores, Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach);
C	0.57 - 1 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy light clay; Dry; 50-90%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6.5 (Raupach);

Morphological Notes

A1	Dilatancy.
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Observation Notes

Site Notes

J. DUMARESQU, MONAVALÉ

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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 - 0.02	6.13A	0.273A	2.8J	1.4	1.9	0.02		8.1l		0.25
0.02 - 0.2	4.96A	0.072A	1J	0.4l	0.32	0		4.3l		0.00
0.2 - 0.57	6.07A	0.029A	1.7J	1.7	0.15	0.04		4.5l		0.89
0.57 - 1	6.64A	0.017A	1.3J	3.1	0.13	0.07		4.7l		1.49

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 - 0.02		2.49C							82I		4	14
0.02 - 0.2		0.67C							82I		4	14
0.2 - 0.57		0.27C							50I		12	38
0.57 - 1		0.12C							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