

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD4 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	267 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6124810 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	537310 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:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	3 %	Aspect:	0 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Brown Kandosol Medium Non-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 - 0.15 m	Strong brown (7.5YR4/6-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.15 - 0.68 m	Strong brown (7.5YR5/8-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.68 - 1.03 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10% , Distinct; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Fragments, weak, segregations;Field pH 6 (pH meter); Gradual, Smooth change to -
B22	1.03 - 1.25 m	Light grey (10YR7/2-Moist); Mottles, 10-20% , Distinct; Light medium clay; Weak grade of structure, 2-5 mm, Platy; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter);

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 - 0.15	5.26A	0.048A	2.3J	2.2	0.75	0.09		6.9I		1.30
0.15 - 0.68	6.02A	0.12A	3.8J	3.7	0.82	0.15		8.3I		1.81
0.68 - 1.03	6A	0.067A	3.8J	3.7	0.38	0.24		10.2I		2.35
1.03 - 1.25	6.85A	0.029A	3.2J	3.1	0.42	0.33		8.2I		4.02

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 - 0.15		1.43C							32.6I		12.3	55.1
0.15 - 0.68		0.36C							43.3I		13.7	43
0.68 - 1.03		0.24C							55.6I		14.7	29.7
1.03 - 1.25		0.09C							41.6I		11.1	47.3

[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