

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD22 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	235 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6121710 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	535530 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:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	5 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Red Dermosol Medium Non-gravelly 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 - 0.12 m	Reddish brown (5YR4/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.12 - 0.48 m	Yellowish red (5YR4/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.48 - 0.71 m	Yellowish brown (10YR5/6-Moist); ; Light clay; 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, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (pH meter); Gradual, Smooth change to -
B22	0.71 - 1.22 m	Brownish yellow (10YR6/6-Moist); Mottles, 10-20% , Distinct; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6 (pH meter); Gradual, Smooth change to -
B23	1.22 - 1.32 m	Yellowish red (5YR4/8-Moist); Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins, weak, segregations;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 - 0.12	5.41A	0.044A	3.6J	0.55	0.42	0.05		6.8I		0.74
0.12 - 0.48	6.51A	0.02A	4.1J	1	0.24	0.07		6.3I		1.11
0.48 - 0.71	6.75A	0.047A	8.1J	3.2	0.5	0.08		16.1I		0.50
0.71 - 1.22	7.49A	0.025A	10J	5.7	0.96	0.12		17.7I		0.68

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.12		0.84C							35.3I		13.3	51.4
0.12 - 0.48		0.34C							39.6I		10.2	50.2
0.48 - 0.71		0.48C							62.8I		11.1	26.1
0.71 - 1.22		0.08C							60I		12.3	27.7

[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