

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD21 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	253 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6125090 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	536910 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:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	5 %	Aspect:	315 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	N/A
Confidence level not specified		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.1 - 0.58 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, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.58 - 0.79 m	Yellowish brown (10YR5/8-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 6.5 (pH meter); Gradual, Smooth change to -
B22	0.79 - 1.5 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 6.5 (pH meter); Gradual, Smooth change to -
B23	1.5 - 1.6 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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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	5.53A	0.044A	3.4J	0.83	1.2	0.05		8.3I	0.60
0.1 - 0.58	6.77A	0.02A	5J	2.4	0.86	0.07		9.8I	0.71
0.58 - 0.79	7.44A	0.027A	5.7J	3.9	0.68	0.08		9.8I	0.82
0.79 - 1.5	8.2A	0.17A	17.6J	8.9	1.5	0.37		19.3I	1.92
1.5 - 1.6	8.44A	0.042A	12.6J	11.5	1.8	0.6		23.4I	2.56

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		1.86C							38.6I		13.4	48
0.1 - 0.58		0.39C							52.3I		9.5	38.2
0.58 - 0.79		0.35C							61.2I		11	27.8
0.79 - 1.5		0.16C							68.5I		10.8	20.7
1.5 - 1.6		0.06C							71.5I		11.6	16.9

[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