Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **BD3** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	218 metres
Map Ref.:	Sheet No. : 8327 1:25000	**Rainfall:**	No Data
Northing/Long.:	6122050 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	538070 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:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	4 %	**Aspect:**	180 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: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.14 m	Dark brown (7.5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Field pH 5.5 (pH meter); Many, very fine (0-1mm) roots; Gradual, Wavy change to -
B1	0.14 - 0.62 m	Yellowish red (5YR4/8-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, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.62 - 1.2 m	Strong brown (7.5YR5/6-Moist); Mottles, 2-10% , Faint; Light medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Few cutans, <10% of ped faces or walls coated; Field pH 6 (pH meter); Gradual, Smooth change to -
B3	1.2 - 1.79 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Dry; Firm consistence; Common (10 - 20 %), Ferromanganiferous, , ; Field pH 6.5 (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
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.14	5.26A	0.035A	2.2J	2.1	0.67	0.08		6.4I		1.25
0.14 - 0.62	6.96A	0.075A	7.8J	7.7	0.64	0.12		12.4I		0.97
0.62 - 1.2	7.65A	0.04A	6.3J	6.2	0.64	0.18		13.4I		1.34
1.2 - 1.79	7.28A	0.045A	7.5J	7.4	0.65	0.6		20.8I		2.88

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.14		1.02C							32.4I		13.7	53.9
0.14 - 0.62		0.47C							51.2I		10.5	38.3
0.62 - 1.2		0.18C							66I		12.5	21.5
1.2 - 1.79		0.11C							52.3I		16.6	31.1

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.14									
0.14 - 0.62									
0.62 - 1.2									
1.2 - 1.79									

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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