

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD72 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	McKane, Dermot	<b>Locality:</b>	
<b>Date Desc.:</b>	15/07/93	<b>Elevation:</b>	239 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6123690 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	539070 Datum: AGD66	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b>	Probable
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Granite

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	180 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

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

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay 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, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B1	0.1 - 0.37 m	Yellowish red (5YR4/6-Moist); ; 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, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change to -
B21	0.37 - 0.83 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Fragments, weak, segregations; Clear change to -
B22	0.83 - 1.4 m	Pale brown (10YR6/3-Moist); Mottles, 10-20% , Faint; Mottles, 10-20% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Clear change to -
BC	1.4 - 2.1 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 10-20% , Faint; Mottles, 10-20% , Faint; Coarse sandy light clay; Moderate grade of structure, <2 mm, Subangular blocky; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Fragments, weak, segregations;

**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	5.24A	0.144A	4.3J	0.81	0.57	0		8l	0.00
0.1 - 0.37	6.33A	0.022A	5.3J	1.5	0	0.27		9.1l	2.97
0.37 - 0.83	6.6A	0.037A	5.2J	2.2	0.3	0		9.4l	0.00
0.83 - 1.4	6.04A	0.065A	6.2J	2.5	0	0.41		10.7l	3.83
1.4 - 2.1	7.67A	0.058A	17.8J	6.6	0.72	0.03		25l	0.12

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	Silt
		%	mg/kg	%	%	%	Mg/m3		FS	Clay
									%	
0 - 0.1		1.52C						28.7I		18
0.1 - 0.37		0.38C						37.5I		19.8
0.37 - 0.83		0.24C						41.5I		13.4
0.83 - 1.4		0.25C						41.9I		11.3
1.4 - 2.1		0.19C						52.7I		10.7

[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