

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD82 **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>	252 metres
<b>Map Ref.:</b>	Sheet No. : 8327 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6123375 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	540126 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>	2 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Yellow Dermosol Medium Slightly gravelly 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 - 0.16 m	Dark reddish brown (5YR3/3-Moist); ; Coarse sandy 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; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Many, very fine (0-1mm) roots; Gradual change to -
B1	0.16 - 0.53 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, Few (<1 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Medium (2-5mm) macropores, Very 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; Gradual change to -
B21	0.53 - 0.91 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Prominent; Mottles, 10-20% , Distinct; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common (10 - 20 %), Manganiferous, , ; Few, very fine (0-1mm) roots; Clear
B22	0.91 - 1.24 m	Yellowish brown (10YR5/6-Moist); Mottles, 10-20% , Distinct; Mottles, 20-50% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common (10 - 20 %), Manganiferous, , ; Gradual change to -
B23	1.24 - 1.99 m	Yellowish brown (10YR5/6-Moist); Mottles, 20-50% , Distinct; Light clay; Moderate grade of structure; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments;

**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 - 0.16	4.87A	0.079A	2.2J	0.53	0.78	0.06		7.9I	0.76
0.16 - 0.53	5.75A	0.032A	4J	1.3	0.55	0.07		8.5I	0.82
0.53 - 0.91	6.49A	0.056A	5.5J	3.7	0.5	0.19		11.8I	1.61
0.91 - 1.24	7.17A	0.053A	5.2J	4.2	0.63	0.42		14.1I	2.98
1.24 - 1.99	7.88A	0.077A	7.6J	6.1	0.87	0.77		15.6I	4.94

Depth	CaCO <sub>3</sub>	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%		
0 - 0.16		1.6C							30.9I		23.9	45.2
0.16 - 0.53		0.4C							42.9I		17.9	39.2
0.53 - 0.91		0.32C							53.8I		17.6	28.6
0.91 - 1.24		0.2C							55.9I		12.8	31.3
1.24 - 1.99		0.19C							55.7I		16.9	27.4

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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