

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD54 **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>	225 metres
<b>Map Ref.:</b>	Sheet No. : 8327 1:25000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6125950 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	535570 Datum: AGD66	<b>Drainage:</b>	Moderately well drained

**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>	3 %	<b>Aspect:</b>	0 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 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 - 0.14 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.14 - 0.67 m	Red (2.5YR4/6-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, dispersed, coarse fragments; Gradual, Smooth change to -
B21	0.67 - 1.23 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Faint; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Gradual, Smooth change to -
B22	1.23 - 1.56 m	Yellowish red (5YR5/8-Moist); Mottles, 10-20% , Distinct; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Veins, weak,

**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 - 0.14	5.39A	0.069A	3.1J	0.59	1.3	0.01		8.4I		0.12
0.14 - 0.67	8.32A	0.132A	11.7J	1.8	1.5	0.05		10.2I		0.49
0.67 - 1.23	8.5A	0.069A	10.1J	9.6	1.6	0.41		20.9I		1.96
1.23 - 1.56	8.69A	0.049A	7.4J	9.1	0.97	1.7		19I		8.95

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 - 0.14		1.17C						29.3I		19.5
0.14 - 0.67		0.2C						42.4I		14.1
0.67 - 1.23		0.1C						66.4I		12
1.23 - 1.56		0.05C						48.3I		18.1

[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