

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD25 **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>	266 metres
<b>Map Ref.:</b>	Sheet No. : 8327 DGPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6123811 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	535962 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>	3 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Yellow 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 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Many, very fine (0-1mm) roots; Clear change to -
B11	0.1 - 0.29 m	Dark red (2.5YR3/6-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, subrounded, dispersed, coarse fragments; Many, very fine (0-1mm) roots; Clear change to -
B12	0.29 - 0.58 m	Strong brown (7.5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear change
B21	0.58 - 1.4 m	Brownish yellow (10YR6/8-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Many (20 - 50 %), Ferromanganiferous, , ; Clear change to -
B22	1.4 - 2 m	Yellowish red (5YR5/8-Moist); Mottles, 20-50% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Many (20 - 50 %), Manganiferous, , ;

**Morphological Notes**

**Observation Notes**

**Site Notes**

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM      **Site ID:** BD25      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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	5.18A	0.139A	3.7J	0.89	1.5	0		9.4I	0.00
0.1 - 0.29	5.36A	0.072A	4.3J	1.6	1.5	0.03		10.3I	0.29
0.29 - 0.58	6.46A	0.215A	6J	3.3	0.86	0.02		12I	0.17
0.58 - 1.4	7.05A	0.045A	4.8J	4.8	0.81	0.66		11.3I	5.84
1.4 - 2	8.03A	0.087A	12.2J	10.2	1.2	1.8		27I	6.67

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		2.03C							38.9I		12.8	48.3
0.1 - 0.29		0.55C							50.8I		9.1	40.1
0.29 - 0.58		0.49C							63.1I		11.3	25.6
0.58 - 1.4		0.07C							63.8I		10	26.2
1.4 - 2		0.15C							67.2I		11.8	21

[illegible]

**Project Name:** BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling  
**Project Code:** Wagga\_SLM **Site ID:** BD25 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**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