

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD36 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	238 metres
Map Ref.:	Sheet No. : 8327 DGPS	Rainfall:	No Data
Northing/Long.:	6123010 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	535550 Datum: AGD66	Drainage:	Moderately well drained

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:	3 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.11 m	Brown (7.5YR4/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.11 - 0.42 m	Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, reoriented, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, reoriented, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.42 - 0.83 m	Brownish yellow (10YR6/8-Moist); ; Light medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, reoriented, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, reoriented, coarse fragments; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.83 - 1.29 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10% , Distinct; Mottles, 0-2% , Faint; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, reoriented, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Gradual change to -
BC	1.29 - 2 m	Yellowish brown (10YR5/8-Moist); Mottles, 2-10% , Distinct; Mottles, 0-2% , Distinct; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Ferruginous, , ; Very few (0 - 2 %), Ferromanganiferous, , ;

Morphological Notes

B21	Slightly plastic.
B22	Soapy when wet.

Observation Notes

Very friendly horses!

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Site Notes

HORSE STUD

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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 - 0.11	5.25A	0.046A	2.6J	0.7	0.79	0.06		6.4I	0.94
0.11 - 0.42	6.23A	0.019A	4.2J	2.3	0.62	0.09		8.9I	1.01
0.42 - 0.83	4.87A	0.035A	3.4J	4.1	0.32	0.46		10.8I	4.26
0.83 - 1.29	8.59A	0.078A	11.1J	11.9	1.3	3.6		25.8I	13.95
1.29 - 2	8.67A	0.06A	11.7J	11.7	1.1	3.9		23.4I	16.67

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 - 0.11		1.64C						36.9I		13.6
0.11 - 0.42		0.35C						56.2I		10.8
0.42 - 0.83		0.22C						60.6I		18.7
0.83 - 1.29		0.12C						79.7I		6.4
1.29 - 2		0.1C						63.8I		15.9

[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