

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD52 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	McKane, Dermot	Locality:	
Date Desc.:	15/07/93	Elevation:	206 metres
Map Ref.:	Sheet No. : 8327 1:25000	Rainfall:	No Data
Northing/Long.:	6121350 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	536450 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:	4 %	Aspect:	90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Eutrophic Red Dermosol Medium Non-gravelly Loamy Clayey Moderately 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 - 0.14 m	Reddish brown (5YR4/4-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.14 - 0.45 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, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.45 - 0.66 m	Yellowish red (5YR5/8-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Clear, Smooth change to -
B22	0.66 - 1.14 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 2-10% , Faint; Light medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Fragments, weak, segregations; Clear, Smooth change to -
B23	1.14 - 1.44 m	Pale yellow (2.5Y7/3-Moist); Mottles, 10-20% , Distinct; Mottles, 10-20% , Distinct; Light clay; Moderate grade of structure, 10-20 mm, Platy; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Veins, 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 - 0.14	5.13A	0.038A	2.6J	0.43	0.76	0		6.4I	0.00
0.14 - 0.45	6.5A	0.026A	4.5J	1.4	0.73	0.01		7.8I	0.13
0.45 - 0.66	7.36A	0.028A	7.3J	3.3	1	0.02		12.1I	0.17
0.66 - 1.14	7.78A	0.039A	10.3J	8.1	1.5	0.06		20I	0.30
1.14 - 1.44	7.08A	0.093A	7J	6.7	1.1	0.05		15.5I	0.32

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis
m	%	C	P	P	N	K	Density	GV	CS	Silt Clay
		%	mg/kg	%	%	%	Mg/m3		FS	%
0 - 0.14		1.1C							22.5I	17.8 59.7
0.14 - 0.45		0.34C							37.2I	12.3 50.5
0.45 - 0.66		0.26C							54.5I	12.2 33.3
0.66 - 1.14		0.18C							68.6I	10.4 21
1.14 - 1.44		0.25C							36I	19.1 44.9

[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