

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** BD84 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: McKane, Dermot	Locality:
Date Desc.: 15/07/93	Elevation: 260 metres
Map Ref.: Sheet No. : 8327 1:25000	Rainfall: No Data
Northing/Long.: 6126566 AMG zone: 55	Runoff: Slow
Easting/Lat.: 540135 Datum: AGD66	Drainage: Very poorly drained

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

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: 1 %	Aspect: 315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Sodic Eutrophic Brown Kandosol	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 - 0.13 m	Brown (7.5YR4/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common, very fine (0-1mm) roots; Clear change to -
B2	0.13 - 0.35 m	Brown (7.5YR4/4-Moist); ; Coarse sandy 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, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules, weak, segregations; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Nodules, weak, segregations; Few, very fine (0-1mm) roots; Gradual change to -
2A	0.35 - 0.48 m	Brown (7.5YR4/4-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules, strong, segregations; Soil matrix is Slightly calcareous; Clear change to -
3A	0.48 - 0.69 m	Dark brown (7.5YR3/4-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Abrupt change to -
3A2	0.69 - 0.92 m	Light yellowish brown (10YR6/4-Moist); White (10YR8/1-Dry); ; Medium sandy clay loam; Massive grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Clear change to -
3B21	0.92 - 1.22 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Moderate grade of structure, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Veins, weak, segregations; Few, very fine (0-1mm) roots; Clear change to -

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3B22	1.22 - 1.98 m	Reddish yellow (5YR6/8-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules, weak, segregations;Clear change to -
3B23	1.98 - 2.13 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules, weak,

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 - 0.13	7.53A	1.009A	10.4J	3.1	0.97	2.4		15I	16.00
0.13 - 0.35	7.57A	0.68A	5.9J	1.8	0.63	1.3		9.1I	14.29
0.35 - 0.48	7.73A	0.379A	5.8J	2.2	0.58	0.96		9.1I	10.55
0.48 - 0.69	7.59A	0.424A	5.5J	1.7	0.4	0.72		7.5I	9.60
0.69 - 0.92	7.61A	0.258A	2.9J	0.95	0.17	0.45		4.2I	10.71
0.92 - 1.22	7.11A	0.418A	14.6J	4.3	0.77	1.2		18.1I	6.63
1.22 - 1.98	7.65A	0.455A	13.3J	4	0.82	0.94		18.6I	5.05
1.98 - 2.13	8.05A	0.456A	20.4J	5.3	1	1.5		24.8I	6.05

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 - 0.13		2.2C							45.6I		17.9 36.5
0.13 - 0.35		0.6C							37.1I		14.8 48.1
0.35 - 0.48		0.2C							34.7I		10.6 54.7
0.48 - 0.69		0.37C							22.5I		15.4 62.1
0.69 - 0.92		0.13C							22.7I		24.9 52.4
0.92 - 1.22		0.18C							63.7I		15 21.3
1.22 - 1.98		0.19C							52.5I		9.5 38
1.98 - 2.13		0.18C							55.4I		13.3 31.3

[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