

Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling
Project Code: Wagga_SLM **Site ID:** LS45 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: McKane, Dermot	Locality:
Date Desc.: 15/07/93	Elevation: 278 metres
Map Ref.: Sheet No. : 8427 DGPS	Rainfall: No Data
Northing/Long.: 6105567 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 549990 Datum: AGD66	Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: No Data	Pattern Type: No Data
Morph. Type: Simple-slope	Relief: No Data
Elem. Type: Hillslope	Slope Category: No Data
Slope: 10 %	Aspect: 135 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Mottled Mesotrophic Brown Dermosol Medium Non-gravelly Clay-loamy Clayey 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	Greyish brown (10YR5/2-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Quartz, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;
A2	0.14 - 0.3 m	Light yellowish brown (10YR6/4-Moist); White (10YR8/2-Dry); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach); Few, very
B21	0.3 - 0.73 m	Yellowish brown (10YR5/8-Moist); Mottles, 10-20% , Faint; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, Quartz, coarse fragments; Field pH 6 (Raupach);
B22	0.73 - 1.5 m	Light yellowish brown (10YR6/4-Moist); Mottles, 20-50% , Prominent; Light clay; Moderate grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Ferromanganiferous, , ; Field pH 6.5 (Raupach);
C	1.5 - 2 m	Brownish yellow (10YR6/8-Moist); Mottles, 20-50% , Distinct; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , ; Field pH 7 (Raupach);

Morphological Notes

A1 Root stains.

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A2 Few root stains.

Observation Notes

Site Notes

T. CARLISLE, TWYONG

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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	Acidity		%
						Cmol (+)/kg			
0 - 0.14	5.21A	0.063A	0.95J	0.71	0.22	0.1		4.3I	2.33
0.14 - 0.3	6.37A	0.016A	0.66J	0.85	0.08	0.07		2.5I	2.80
0.3 - 0.73	6.86A	0.037A	2.3J	4.4	0.32	0.22		8.8I	2.50
0.73 - 1.5	7A	0.044A	1.5J	3.9	0.25	0.19		6.7I	2.84
1.5 - 2	7.6A	0.041A	0.15J	9.9	0.2	0.96		11.4I	8.42

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 - 0.14		1.31C							73I		3	24
0.14 - 0.3		0.28C							82I		4	14
0.3 - 0.73		0.25C							39I		11	50
0.73 - 1.5		0.12C							50I		12	38
1.5 - 2		0.07C							50I		12	38

[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