Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS49** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	276 metres
Map Ref.:	Sheet No. : 8427 DGPS	**Rainfall:**	No Data
Northing/Long.:	6104237 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	549759 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	11 %	**Aspect:**	225 degrees

Surface Soil Condition (dry):

Erosion: Partial, Moderate (gully)

Soil Classification

Australian Soil Classification:
Bleached-Mottled Mesotrophic Brown Chromosol Medium Non-gravelly Loamy Clayey Moderately deep

Mapping Unit: N/A
Principal Profile Form: N/A

ASC Confidence:
Confidence level not specified

Great Soil Group: N/A

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Brown (7.5YR4/3-Moist); ; Loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots;
A2	0.13 - 0.3 m	Pale red (2.5YR6/2-Moist); Mottles, 10-20% , Faint; Coarse sandy loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Fine (1-2mm) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
B21	0.3 - 0.42 m	Yellowish brown (10YR5/4-Moist); Mottles, 10-20% , Distinct; Light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6.5 (Raupach);
C	0.42 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Firm consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments;

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

T. CARLISLE, TYWONG

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.13	4.21A	0.124A	0.61J	0.19	0.34	0.02		4.6I		0.43
0.13 - 0.3	5.43A	0.048A	0.83J	0.86	0.12	0.15		2I		7.50
0.3 - 0.42	6.26A	0.038A	0.71J	3	0.17	0.29		6.4I		4.53
0.42 - 0.6	7A	0.059A	0.57J	6	0.29	0.85		7.7I		11.04

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.13		1.57C							66I		17	17
0.13 - 0.3		0.18C							82I		4	14
0.3 - 0.42		0.21C							50I		12	38
0.42 - 0.6		0.15C							50I		12	38

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.13										
0.13 - 0.3										
0.3 - 0.42										
0.42 - 0.6										

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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