Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **LS22** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	McKane, Dermot	**Locality:**	
Date Desc.:	15/07/93	**Elevation:**	319 metres
Map Ref.:	Sheet No. : 8427 DGPS	**Rainfall:**	No Data
Northing/Long.:	6106988 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	548874 Datum: AGD66	**Drainage:**	Moderately well 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:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	14 %	**Aspect:**	315 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Pedal Leptic Rudosol Slightly gravelly Loamy 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 - 0.07 m	Dark brown (7.5YR3/3-Moist); ; 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, Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular platy, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, coarse fragments; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots;
A2	0.07 - 0.2 m	Brown (7.5YR4/4-Moist); Pinkish grey (7.5YR7/3-Dry); ; Coarse sandy 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, Dry; Weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;
C	0.2 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, subangular platy, dispersed, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

A1 Hydrophobic.

Observation Notes

Site Notes

HORWOOD, COOLUMBA

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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 - 0.07	5.38A	0.156A	3.8J	1.5	1	0		8I		0.00
0.07 - 0.2	5.41A	0.058A	0.47J	0.57	0.65	0.01		3.5I		0.29
0.2 - 0.5	5.53A	0.066A	0.63J	2.2	0.48	0.05		5.3I		0.94

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 - 0.07		3.6C							82I		4	14
0.07 - 0.2		0.56C							82I		4	14
0.2 - 0.5		0.3C							82I		4	14

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 - 0.07										
0.07 - 0.2										
0.2 - 0.5										

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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