Project Name: BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling Project Code: Wagga_SLM Site ID: LS52 Observation ID: 1 Agency Name: CSIRO Division of Soils (ACT) Site ID: LS52 Division of Soils (ACT)

Site Information Jose: By: McKane, Dermot Locality: 35 metres Date Desc: 15/07/93 Elevation: 335 metres Map Ref: Sobet No.: 6401596 AMG zone::55 Runoff: No Data Morthing/Long: 6101596 AMG zone::55 Runoff: No Data Ecoloay Undisturbed soil core Conf. Sub. is Parent. Mat: No Data Ecoloay ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat: No Data Ceol. Ref: No Data Substrate Material: No Data Morph. Type: Hildreet Refielt: No Data Morph. Type: Hildreet Slope Category: No Data Slope: 2.% Aspect: 270 degrees Suid Classification: Mapping Unit: N/A Australian Soil Classification: Mapping Unit: N/A Site Disturbance: Extensive clearing, for example poisoning, ringbarking V/A Vegetation: Sufface Comistence: 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Sitstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Profile Morphology Nar gravelly.Loan: Massive grade of structu	-	-	-	-								
Geol. Ref.:No DataSubstrate Material:No DataLand Form Rel/Slope Class:No DataPattern Type:No DataMorph. Type:RidgeRelief:No DataMorph. Type:HillicrestSlope Category:No DataSlope:2%Aspect:270 degreesSufficiention (dry):SoftErosion:Soil Classification:Mapping Unit:N/AAustralian Soil Classification:Mapping Unit:N/ABeached Class Undetermined Red Dermosol Thin SlightlyPrincipal Profile Form:N/ABacc Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Confidence:Site Disturbance:Profile MorphologyA10.08 mDark grey (7.5YR4/1-Moist): ; Loam: Massive grade of structure: Earthy fabric: Chry; WeakConsistence: 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field ph 5.5 (Raupach); Common, very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence: 2-10%, fine gravelly, 2-6mm, subangular platy, disperse	Desc. I Date D Map Re Northin Easting Geolo	By: esc.: ef.: ng/Long.: g/Lat.: <u>GV</u>	McKane, Dermot 15/07/93 Sheet No. : 8427 DGPS 6101596 AMG zone: 55 551166 Datum: AGD66	Elevation: Rainfall: Runoff: Drainage:	No Data Slow Imperfectly drain							
Rel/Slope Class: No Data Pattern Type: No Data Morph, Type: Ridge Relief: No Data Slope: 2 % Aspect: 270 degrees Surface: Solid Classification Z70 degrees Australian Soil Classification: Mapping Unit: N/A Australian Soil Classification: Mapping Unit: N/A Bleached Class Undetermined Red Dermosol Thin Slightly Principal Profile Form: N/A gravelly Loamy Clayey Deep ASC Confidence: Great Soil Group: N/A Confidence level not specified Stre Disturbance: Extensive clearing, for example poisoning, ringbarking Vegetation: Surface Coarse Fragments: Profile Morphology A1 0 - 0.08 m Dark grey (7.5YR4/1-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Slitstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; A2 0.08 - 0.34 m Reddish yellow (5YR6/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Mary (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Slitstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; B21			No Data	Substrate Materia	I: No Da	ta						
Erosion: Soil Classification: Mapping Unit: N/A Blached Class Undetermined Red Dermosol Thin Slightly gravelly Loamy Clayey Deep Mapping Unit: N/A ASC Confidence: N/A Confidence: Site Disturbance: Extensive clearing, for example poisoning, ringbarking Vegetation: Surface Coarse Fragments: Profile Morphology A1 0 - 0.08 m Dark grey (7.5YR4/1-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0.1mm) roots; A2 0.08 - 0.34 m Reddish yellow (5YR6/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 5-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone; coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 5-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone; coarse fragments; Field pH 5.5 (Raupach); B21 0.034 - 0.64 m <th>Rel/Sic Morph. Elem. 1 Slope:</th> <th>ope Class: . Type: Type:</th> <th>Ridge Hillcrest 2 %</th> <th>Relief: Slope Category:</th> <th>No Data No Data</th> <th></th>	Rel/Sic Morph. Elem. 1 Slope:	ope Class: . Type: Type:	Ridge Hillcrest 2 %	Relief: Slope Category:	No Data No Data							
Soil ClassificationAustralian Soil Classification:Mapping Unit:N/ABleached Class Undetermined Red Dermosol Thin Slightly gravelly Learny Clayey DeepPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/AConfidence level not specifiedSite Disturbance:Extensive clearing, for example poisoning, ringbarkingVegetation:Surface Coarse Fragments:Profile MorphologyProfile MorphologyA10 - 0.08 mDark grey (7.5YR4/1-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;A20.08 - 0.34 mReddish yellow (5YR6/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm)) macropores, Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Key film consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots;B210.034 - 0.64 mRed(2.5YR4/8-Moist); Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very film consistence; Any er 100mm2) Film (1-2mm) macropores, Dry; Very film consistence; Many cutans, >50% of ped faces or walls coated; Field pH 5.5 (Raupach);BC0.64 - 0.79 mYellowish red (5YR4/6-Moist); Light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, stony, 200-600mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach);R0.79 - 1.05 mRock </th <th>-</th> <th colspan="11"></th>	-											
AustralianSolit Classification:Mapping Unit:N/ABleached Class Undetermined Red Dermosol Thin Slightly gravelly Loamy Clayey DeepMapping Unit:N/AASC Confidence:Great Soil Group:N/AConfidence level not specifiedSite Disturbance:Extensive clearing, for example poisoning, ringbarkingN/AVegetation:Sutrace Coarse Fragments:Site Disturbance:N/AProfile MorphologyProfile MorphologyDark grey (7.5YR4/1-Moist); ; Loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots;A20.08 - 0.34 mReddish yellow (5YR6/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0.075-1mm) macropores, Somoth, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0.075-1mm) macropores, Dry; Per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very firm consistence; Many cutans, >50% of ped faces or walls coated; Field pH 5.5 (Raupach);B210.034 - 0.64 mRed (2.5YR4/8-Moist); ; Light clay; Moderate grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, stony, 200-600mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 6.5 (Raupach);B20.64 - 0.79 mYellowish red (5YR4/6												
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ASC Confidence: Great Soil Group: N/A Confidence level not specified Site Disturbance: Extensive clearing, for example poisoning, ringbarking Vegetation: Surface Coarse Fragments: Profile Morphology A1 0 - 0.08 m Dark grey (7.5YR4/1-Moist); Loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; A2 0.08 - 0.34 m Reddish yellow (5YR6/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular platy, dispersed, Siltstone, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; B21 0.03 - 0.34 m Reddish yellow (5YR6/6-Moist); ; Light clay; Moderate grade of structure; 5-10 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very firm (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Many cutans, >50% of ped faces or walls coated; Field pH 5.5 (Raupach); BC 0.64 - 0.79 m Yellowish red (5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, stony, 200-600mm, angular tabular, dispersed, Siltstone, coarse		······································										
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consistence; 50-90%, stony, 200-600mm, angular tabular, dispersed, Siltstone, coarse fragments; Field pH 6 (Raupach); R 0.79 - 1.05 m Rock <u>Morphological Notes</u>	B21	0.034 - 0.6	Smooth-ped fabric; Commo per 100mm2) Fine (1-2mm	Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Few (<1 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Many cutans, >50% of ped								
Morphological Notes	BC	0.64 - 0.79	consistence; 50-90%, ston	consistence; 50-90%, stony, 200-600mm, angular tabular, dispersed, Siltstone, coarse								
	R	0.79 - 1.0	5 m Rock									

Observation Notes

Site Notes

S.STRONG, KUANA

Project Name:BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape ModellingProject Code:Wagga_SLMSite ID:LS52Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	e Cations K	E Na	xchangeable Acidity	CEC		ECEC	,	ESP
m		dS/m				Cmol (+)						%
0 - 0.08	5.48A	0.04A	1.9J	0.99	0.84	0.13		81				1.63
0.08 - 0.34	5.11A	0.025A	0.32J	1	0.15	0.04		4.7I				0.85
0.034 - 0.64	5.54A	0.025A	0.15J	6.1	0.34	0.26		10.4	I			2.50
0.64 - 0.79	6.19A	0.034A	0.06J	8.5	0.26	0.58		10.6	I			5.47
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysi	is
		С	Р	Р	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 0 00		0.500							001		47	47
0 - 0.08		2.59C							661		17	
0.08 - 0.34		0.49C							561		15	-
0.034 - 0.64		0.41C							501		12	
0.64 - 0.79		0.16C							501		12	38
			-									
Depth	•							at				
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15 I	Bar	mm	/h	mm/h	ı
0 - 0.08												

0.08 - 0.34 0.034 - 0.64 0.64 - 0.79

BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling **Project Name:** Project Code: Wagga_SLM Site ID: LS52 Observation ID: 1 Agency Name: CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile

- 15F1 CA Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
 - Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
- 15F1_K 15F1_MG Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
- Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ 15F1_NA 15F3
- 15L1 Base saturation percentage (BSP)
- 15N1 Exchangeable sodium percentage (ESP)
- EC of 1:5 soil/water extract 3A1
- 4A1 pH of 1:5 soil/water suspension
- 6B3 Total organic carbon - high frequency induction furnace, infrared
- Clay (%) Not recorded Sand (%) Not recorded P10_NR_C
- P10_NR_S P10_NR_Z Silt (%) - Not recorded