Project Name: Project Code: Agency Name:	Soil Studies in the Lower M EDGEROI Site ID: CSIRO Division of Soils (Q	ed094 O	bservation ID:	1
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	W.T. Ward 14/01/87 Sheet No. : 8837_N 1:50000 6665600 AMG zone: 55 756700 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Brynmair 206 metres No Data No Data No Data	
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia		
Morph. Type: Elem. Type: Slope:	No Data No Data Terrace plain 0 % ndition (dry): Surface crust, P	Pattern Type: Relief: Slope Category: Aspect: oached	No Data No Data Level No Data	
Erosion:				
Soil Classificati Australian Soil Cl N/A ASC Confidence Confidence level r	assification:	Princi	ng Unit: pal Profile Form: Soil Group:	N/A Ug5.4 Grey clay
	e: Complete clearing. Pasture, na	tive or improved, cult	ivated at some sta	ge
Profile Morphol A11 0 - 0.1 m	Very dark grey (10YR3/1-M Distinct; , 10YR72, 0-2% , mm, Angular blocky; Weak mm crack; Few (<1 per 100 strong consistence; 0-2%, f	0-5mm, Faint; Light m grade of structure, 2 0mm2) Very fine (0.07 fine gravelly, 2-6mm,	edium clay; Stron -5 mm, Platy; Smc 75-1mm) macropo subangular, Quar	g grade of structure, 20-50 oth-ped fabric; Fine, (0 - 5) res, Moderately moist; Very
A12 0.1 - 0.25	Faint; Light medium clay; S fabric; Fine, (0 - 5) mm cra Moderately moist; Very stro	Strong grade of structu ck; Few (<1 per 100m ong consistence; 0-29 v (0 - 2 %), Calcareou	ure, 50-100 mm, A m2) Very fine (0.0 6, fine gravelly, 2-0	ngular blocky; Smooth-ped 075-1mm) macropores,
A13 0.25 - 0.5	5mm, Faint; Light medium ped fabric; Fine, (0 - 5) mm Moderately moist; Very stro	clay; Strong grade of a crack; Few (<1 per 1 ong consistence; 0-29 v (0 - 2 %), Calcareou	structure, 50-100 00mm2) Very fine 6, fine gravelly, 2-0	mm, Angular blocky; Smooth- e (0.075-1mm) macropores,
A14 0.55 - 0.9		Moderate grade of str ck; Few (<1 per 100m ong consistence; Very	ucture, 20-50 mm m2) Very fine (0.0 / few (0 - 2 %), Ca	, Angular blocky; Smooth-ped)75-1mm) macropores,
B21 0.95 - 1.9	Prominent; Medium clay; M structure, 10-20 mm, Angu 100mm2) Very fine (0.075-	loderate grade of stru lar blocky; Smooth-pe 1mm) macropores, M rse (6 - 20 mm), Node	icture, 20-50 mm, ed fabric; Fine, (0 - loderately moist; S	t; , 10YR72, 0-2% , 5-15mm, Prismatic; Moderate grade of 5) mm crack; Few (<1 per strong consistence; Very few H meter); Few, very fine (0-

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed094Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

B22 1.9 - 2.64 m Brown (7.5YR4/2-Moist); 7.5YR52, 0-2%, 5-15mm, Prominent; 10YR31, 2-10%, 15-30mm, Prominent; Medium clay; Moderate grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (pH meter);</p>

Morphological Notes

0-10cm has a strong surface crust colour 10YR5/1. The top metre of the core is
extremely hard. Brown subsoil has common dark humus stain. The subsoil colour seems
too brown to be old alluvium, compare Auscott cores, however the colours are
dull. Does not qualify as vertisol.

Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

Site Notes

Site is heavily poached. Most cracks are filled in. Vegetation not identifiable.

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	wig	ĸ	Cmol (%
0 - 0.02	7.23A	0.127A	18.13B	7.38	1.13	0.98999 99				
0 - 0.1	7.49A	0.108A	20.58B	7.01	0.8	1.28				
0.1 - 0.2	8.79A	0.105A	25.12B	7.48	0.36	1.89				
0.3 - 0.4	9.02A	0.177A	23.91B	7.19	0.35	3.31				
0.7 - 0.8	8.94A	0.393A	24.09B	9.16	0.6	6.75				
1.2 - 1.3	8.97A	0.468A	24.39B	9.76	0.82	7.1				
2.5 - 2.6	9.02A	0.499A	24.61B	7.4	0.77	7.88				
Depth	CaCO3	Organic	Avail.	Total	Tota	l Tota	al Bulk	Particle	Size	Analysis

Depui	04005	75 Organic Avail. Total Total Total		Total	Duik	Tallicle Olze Allalysis						
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02	<0.1B	1.27C									18.3	35.1
0 - 0.1	0.1B	1.08C	15.2J								16.7	′ 40
0.1 - 0.2	0.3B	0.5C	3.6J								18.1	43.7
0.3 - 0.4	0.9B	0.45C	2.6J								19.8	42.9
0.7 - 0.8	1.1B	<0.01C	1.8J								20.7	52.5
1.2 - 1.3	0.4B	0.1C	5.4J								15.4	57.9
2.5 - 2.6	1.3B	0.08C	2.5J								15	52.9

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h
				-	-					

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7B1	Water soluble nitrate - automated colour
9B1	Bicarbonate-extractable phosphorus - manual colour

- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method P10_CF_C P10_CF_Z