Project Name: Project Code: Agency Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed095 O	bservation ID:	1		
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	G.M. Roberts 10/03/85 Sheet No. : 8837_N 1:50000	Locality: Elevation: Rainfall: Runoff: Drainage:	stock route, near l 210 metres No Data No Data No Data No Data	Brynmair		
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Mat.: No Data Substrate Material: No Data				
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	No Data Terrace plain 1 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level 180 degrees			
Erosion:	Sunace clust					
Soil Classificat	<u>ion</u>					
Australian Soil C N/A ASC Confidence Confidence level Site Disturbance	: not specified	Princij	ng Unit: pal Profile Form: Soil Group:	N/A Ug5.15 Grey clay		
Vegetation: Surface Coarse	Fragments					
Profile Morpho						
A11 0 - 0.08		bangular blocky; Rou 075-1mm) macropore ubrounded, Quartz, c	gh-ped fabric; Fine, s, Moderately moist coarse fragments; F	(0 - 5) mm crack; Few (<1 ; Very firm consistence; 0-		
A12 0.08 - 0.2	grade of structure, 20-50 m Few (<1 per 100mm2) Fine	m, Subangular block (1-2mm) macropore	y; Rough-ped fabric s, Moderately moist			
A13 0.25 - 0.4	Distinct; Medium heavy clay fabric; Fine, (0 - 5) mm crac	y; Weak grade of stru ck; Few (<1 per 100m 0-2%, fine gravelly, 2	icture, 20-50 mm, A im2) Fine (1-2mm) i -6mm, subrounded,	ngular blocky; Rough-ped macropores, Moderately , Quartz, coarse fragments;		
A14 0.55 - 0.4	grade of structure, 10-20 m	m, Subangular block ber 100mm2) Very fin fine gravelly, 2-6mm, Fine (0 - 2 mm), Nodu	y; Rough-ped fabric e (0.075-1mm) mac subangular, Quartz	; Smooth-ped fabric; Fine, cropores, Moderately moist; c, coarse fragments; Very		
B21 0.82 - 1.9	15mm, Prominent; Medium Smooth-ped fabric; Rough-	clay; Moderate grade ped fabric; Fine, (0 - Moderately moist; Fin	e of structure, 20-50 5) mm crack; Few ( m consistence; Very	) mm, Angular blocky;		
<b>Daa a a a a</b>						

B22 1.9 - 2.8 m Brown (10YR4/3-Moist); , 7.5YR32, 2-10% , 5-15mm, Distinct; , 10YR62, 2-10% , 5-15mm, Prominent; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Diffuse, Smooth change to -

## **Morphological Notes**

Project Name:	Soil Studies ir	the Lower	Namoi Valle	ey 🛛	
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Agency Name:	CSIRO Divisio	n of Soils (C	QLD)		

A11

Sample .06 colour between 5YR4/2 and 10YR4/3. C bedding at 280cm. Earthy fabric makes poor match with Ug5.15. Cast granules at 250cm+.

**Observation Notes** 

Parent Rock: alluvial sediment, mixed texture, with lime, parna on fourth fan Site Notes

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## Laboratory Test Results:

ECEC	ESP
	%
	ECEC

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	S
	0/	C	Р	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	2.05C									17.1	35.4
0 - 0.08	<0.1B	0.92C	37J								18.2	39.8
0.1 - 0.2	0.7B	0.85C	4.8J								20.6	45.2
0.3 - 0.4	1.1B	0.4C	3J								19	49.5
0.7 - 0.8	0.9B	0.17C	12.8J								18.3	52.2
1.2 - 1.3	3.9B	0.12C	10.7J								17.7	′ 45
2.5 - 2.6	3.9B	0.16C	6.5J								20.2	51.3
0.3 - 0.4 0.7 - 0.8 1.2 - 1.3	1.1B 0.9B 3.9B	0.4C 0.17C 0.12C	3J 12.8J 10.7J								20.6 19 18.3 17.7	45.2 49.5 52.2 45

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

0 - 0.02 0 - 0.08 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

## **Project Name:** Soil Studies in the Lower Namoi Valley Project Code: EDGEROI Site ID: ed095 Agency Name: **CSIRO** Division of Soils (QLD)

Observation ID: 1

## 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 Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
- 15A2\_NA 19B1 Carbonates - manometric
- 3A1 EC of 1:5 soil/water extract
- 4A1 pH of 1:5 soil/water suspension
- Chloride 1:5 soil/water extract, automated colour 5A2
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour 9B1
- Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method
- P10\_CF\_C P10\_CF\_Z