Projec	ct Code: I	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	we007 O	bservation ID:	1			
	Site Information							
Desc. I Date D Map Re Northin Eastin	esc.: 08 ef.: Sh ng/Long.: 66	/02/89 neet No. : 8737_N 1:50000 64300 AMG zone: 55 8800 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	175 metres No Data No Data No Data				
<u>Geolo</u> Expos Geol. F	ureType: Ur	ndisturbed soil core o Data	Conf. Sub. is Pare Substrate Materia					
Morph Elem. Slope:	ope Class: No . Type: No Type: Te 0		Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Level No Data				
<u>Surfac</u> Erosic		lition (dry): Surface crust						
Soil C Austra N/A ASC C Confid	lassification lian Soil Class Confidence: lence level not	specified	Princi Great	ing Unit: pal Profile Form: Soil Group:	Grey clay			
Veget		Complete clearing. Pasture, nat ragments:	tive or improved, cult	ivated at some sta	age, Cultivation. Rainfed,			
Profile	e Morpholog	Y						
A11	0 - 0.1 m	100mm2) Very fine (0.075-7	blocky; Smooth-ped 1mm) macropores, N	fabric; Fine, (0 - 5 loderately moist; S	clay; Moderate grade of) mm crack; Common (1-5 per Strong consistence; 0-2%, fine 7.5 (pH meter); Few, very			
A12	0.1 - 0.25 m	blocky; Moderate grade of s mm crack; Few (<1 per 100 consistence; 0-2%, fine gra	Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 20-50 mm, An blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Fine mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately mo consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field meter); Few, very fine (0-1mm) roots;					
A13	0.25 - 0.55 n	blocky; Moderate grade of s mm crack; Few (<1 per 100 consistence; 0-2%, fine gra	Very dark grey (10YR3/1-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strot consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -					
A14	0.55 - 1 m	100mm2) Very fine (0.075-7	ular blocky; Smooth-µ 1mm) macropores, N lar, Quartz, coarse fra	bed fabric; Fine, (0 loderately moist; S	t clay; Weak grade of - 5) mm crack; Few (<1 per Strong consistence; 0-2%, fine v (0 - 2 %), Gypseous, Fine			
A15	1 - 1.3 m	grade of structure, 50-100	mm, Lenticular; Wea Fine, (0 - 5) mm crao noist; Strong consiste %), Calcareous, Fine	ak grade of structu ck; Few (<1 per 10 ence; 0-2%, fine gr (0 - 2 mm), Nodul	0mm2) Very fine (0.075-1mm) ravelly, 2-6mm, coarse les; Very few (0 - 2 %),			
B2	1.3 - 2.73 m	structure, 100-200 mm, Ler Smooth-ped fabric; Fine, (0	nticular; Weak grade - 5) mm crack; Few pist; Very firm consist	of structure, 20-50 (<1 per 100mm2) tence; Few (2 - 10) mm, Angular blocky;			

Morphological Notes

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:we007Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

A11Originally bu009. The profile contains abundant grit to about 55cm. Below this there is grit
and coarse sand in patches and in cracks to 180cm. There is definitely a break,A12than below. The grits below 130cm in the second core are rounder. This is like the
Bingara pits and is probably watersorted aeolian clay, with alluvial grits.

Observation Notes

Parent Rock: alluvial sediment, clay, sand parna on third fan, Namoi

Site Notes

Flatweed, tumbleweed, no trees. Soil like middle terrace.

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Project Code:	EDGEROI	Site ID:	we007	Observation ID:	1
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Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.1	7.68A	0.158A	A 21.36B	20.87	1.43	3.5				
0.1 - 0.2	8.31A	0.145A	21.53B	20.7	0.8	5.91				
0.3 - 0.4	8.41A	0.463A	21.12B	21.52	0.72	9.67				
0.7 - 0.8	7.72A	1.624	20.42B	19.81	0.95	16.38				
1.2 - 1.3	8.75A	0.801 <i>A</i>	A 17B	19.45	0.76	12.61				
2.5 - 2.6	9.11A	0.809A	A 10.64B	18.93	0.74	13.92				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysi	s
		С	Р	Р	Ν	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	<0.1B	1.04C	55.3J								12.2	59.9
0.1 - 0.2	<0.1B	0.73C	27.3J								11.9	64.2
0.3 - 0.4	<0.1B	0.67C	41.2J								13.1	62.9
0.7 - 0.8	<0.1B	0.63C	45.7J								15.1	61.4
1.2 - 1.3	0.8B	0.4C	29.3J								13.3	56.7
2.5 - 2.6	1.3B	0.05C	9.8J									52.5

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

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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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
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 suspension Chloride 1:5 soil/water extract, automated colour Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour 6B3
- 7B1
- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z