Project	t Name: t Code: y Name:	ED	il Studies in the Lower N GEROI Site ID: IRO Division of Soils (QI	ed334	Observati	on ID:	1		
Desc. B Date De Map Re	esc.: f.: g/Long.: (/Lat.:	W.T. 10/02 Shee 66539	Ward /87 t No. : 8837_N 1:50000 900 AMG zone: 55 00 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Peter Mi 217 met No Data No Data No Data	urma			
Geol. R	ef.:	Undis No D	sturbed soil core ata	Conf. Sub. is Par Substrate Materi	a				
Morph. Elem. T Slope:	pe Class: Type: ype:	No D No D No D %	ata ata	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data y: Very gently sloped 180 degrees				
<u>Surfac</u> Erosio	<u>e Soil Cor</u> n·	nditio	on (dry): Self-mulching, R	ecently cultivated					
	<u>n.</u> assificatio	<u>on</u>							
N/A ASC Co Confide	ian Soil Cla onfidence: ence level no	ot spe		Princ	bing Unit: cipal Profile t Soil Grou		N/A Ug5.16 Grey clay		
Vegeta									
<u>Profile</u>	Morpholo	ogy							
A11p	0 - 0.1 m		of structure, 20-50 mm, An Smooth-ped fabric; Medium macropores, Moderately mo	ngular blocky; Mode n, (5 - 10) mm crack bist; Strong consiste	rate grade o ; Few (<1 p ence; Very f	of structur er 100mn ew (0 - 2	n2) Very fine (0.075-1mm)		
A12	0.1 - 0.25	m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Weak grade of structure, 20-50 mm, Angular 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, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;						
A13	0.25 - 0.55	ōm	Very dark brown (10YR2/2- Lenticular; Smooth-ped fabi 1mm) macropores, Modera Medium (2 -6 mm), Nodules	ric; Fine, (0 - 5) mm tely moist; Strong c	crack; Few onsistence;	(<1 per 1 Very few	100mm2) Very fine (0.075- (0 - 2 %), Calcareous,		
A14	0.55 - 1 m		- 5) mm crack; Few (<1 per	tructure, 10-20 mm 100mm2) Very fine ery few (0 - 2 %), Ca	, Subangula (0.075-1mi	ar blocky; m) macro	Smooth-ped fabric; Fine, (0		
A15	1 - 1.6 m		Dark grey (10YR4/1-Moist); Lenticular; Weak grade of s - 5) mm crack; Few (<1 per Very firm consistence; Very (pH meter); Few, very fine (tructure, 10-20 mm 100mm2) Very fine few (0 - 2 %), Calc	, Subangula (0.075-1mi areous, Fin	ar blocky; m) macro e (0 - 2 m	Smooth-ped fabric; Fine, (0 pores, Moderately moist; im), Nodules; Field pH 9		
B2	1.6 - 2.77	 Brown (7.5YR5/4-Moist); , 10YR41, 0-2% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Lenticular; Weak 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; Very firm consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9 (pH meter); 							
	ological N	lotes							
A11p			Sample 334.06 also contains sign of any break in deposit						

Project Name: Project Code: Agency Name: Soil Studies in the Lower Namoi Valley EDGEROI Site ID: ed334 CSIRO Division of Soils (QLD) Observation ID: 1

profile is the wedge structure above 80cm. The wedges are less visible from 80 to 120.

Observation Notes Parent Rock: alluvial sediment, clay, parna on third fan

Site Notes

A12

Project Name:	Soil Studies in	n the Lower	Namoi Valle	ey i i i i i i i i i i i i i i i i i i i	
Project Code:	EDGEROI	Site ID:	ed334	Observation ID:	1
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeat Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wg	ĸ	Cmol				%
0 - 0.1	8.47A	0.11A	20.74B	18.64	1.05	2.06				
0.1 - 0.2	8.69A	0.136A	22.74B	19.81	0.82	2.82				
0.3 - 0.4	8.92A	0.182A	19.52B	20.01	0.81000 01	4.51				
0.7 - 0.8	9.15A	0.279A	16.14B	22.97	0.88	8.23				
1.2 - 1.3	9.03A	0.333A	15.21B	24.3	1.04	8.49				
2.5 - 2.6	9.08A	0.36A	11.28B	24.63	1.18	8.48				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	s
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1	0.3B	0.97C	15.3J								22.9	52.3
0.1 - 0.2	0.5B	0.91C	8.6J								23.8	52.1
0.3 - 0.4	0.6B	0.89C	11.1J								24.3	52.9
0.7 - 0.8	1.8B	0.71C	29.3J								23.8	54.8
1.2 - 1.3	1.1B	0.59C	22.2J								21.3	55.4
2.5 - 2.6	0.5B	0.15C	6.6J								19.2	2 57.6

Depth	COLE	Gravimetric/Volumetric Water Contents								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 1											

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