Proje	ct Code: E	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed033 0	bservation ID:	1	
Desc. Date D Map R Northi	Desc.: 01, ef.: Sh ng/Long.: 66 g/Lat.: 78	T. Ward /07/86 ieet No. : 8837_N 1:50000 74400 AMG zone: 55 1800 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Des Gordon, Moe 308 metres No Data No Data No Data	ema State Forest	
	ureType: Ur	ndisturbed soil core o Data	Conf. Sub. is Pare Substrate Materia			
	ope Class: No a. Type: No Type: Hi	o Data o Data Ilslope %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently slope 280 degrees	d	
<u>Surfa</u>	ce Soil Cond	ition (dry): Loose, Trampled	ł			
Erosi						
	lassification					
N/A ASC (Ilian Soil Class		Princi	ng Unit: pal Profile Form: Soil Group:	N/A Db4.23 Solodic soil	
	lence level not :	specified Complete clearing. Pasture, na	tive or improved cult	ivated at some star	10	
	ation:	Complete cleaning. I asture, na		wated at some stag	je	
	ce Coarse Fr	agments:				
<u>Profil</u>	e Morpholog	Y				
A11	0 - 0.11 m	n Dark reddish brown (5YR3/2-Moist); Brown (7.5YR4/4-Dry); , 7.5YR44, 2-10% , 15-30mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -				
A21	0.11 - 0.25 m	 Dark reddish brown (5YR3/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; 				
A22	0.25 - 0.45 m	prominent) fabric; Few (<1 Weak consistence; 0-2%, n	Reddish brown (5YR4/4-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -			
B21	0.45 - 0.6 m	Red (2.5YR4/6-Moist); , 7.5YR56, 20-50% , 30-mm, Prominent; Light clay; Weak grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;				
B22	0.6 - 1 m	Red (2.5YR4/6-Moist); , 10 Distinct; Light clay; Modera structure, 10-20 mm, Angul 100mm2) Very fine (0.075- (pH meter); Few, very fine (te grade of structure, lar blocky; Smooth-pe 1mm) macropores, M	20-50 mm, Lenticued fabric; Fine, (0 -	ılar; Moderate grade of 5) mm crack; Few (<1 per	
B23	1 - 2.2 m	Prominent; Medium clay; W structure, 20-50 mm, Angul 100mm2) Very fine (0.075-	Red (2.5YR4/6-Moist); , 10YR56, 20-50% , 30-mm, Prominent; , 10YR61, 2-10% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 100-200 mm, Prismatic; Strong 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; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -			
С	2.2 - 2.8 m Yellowish red (5YR5/8-Moist); , 10YR76, 20-50% , 30-mm, Prominent; , 10YR62, 2-10% , 0- 5mm, Prominent; Medium clay; Weak grade of structure, Angular blocky; Sandy (grains prominent) fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6 (pH meter);					
<u>Morpl</u> A11	hological Not	tes Surface structure is better s	ingle-grained than (h	ard) massive. The s	soil is coherent and	

A11

Surface structure is better single-grained than (hard) massive. The soil is coherent and

Project Name:	Soil Studies in	the Lower	Namoi Valle	∋y
Project Code:	EDGEROI	Site ID:	ed033	Observation ID:
Agency Name:	CSIRO Divisio	n of Soils (C	QLD)	

A21 ar from 130cm and a slickenside appears at 180cm. The coarse prismatic structure continues to 180cm (a prism face shows on core). The carbonate flecks are in B2 but not in C horizon. In the B2 the carbonate occurs along prism faces and pene A22 trates adjoining soil. Note: A2 present but (after Northcote) not bleached.

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Observation Notes

Parent Rock: residual, sandstone, Tertiary beds, weathered

Site Notes

Disturbed site. Vegetation has been pushed. Regrowth of mollee box, cypress and Acacia deanii.

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeabl Acidity	e CE	C	ECEC	:	ESP
m		dS/m	Ga	wig	n	Cmol (+						%
0 - 0.02	7.4A	0.06A	3.89B	0.57	0.42	0.29						
0 - 0.1	6.29A	0.094A	2.43B	0.35	0.38	0.03						
0.1 - 0.2	5.26A	0.04A	0.73B	0.14	0.18	<0.01						
0.3 - 0.4	5.79A	0.017A	0.85B	0.3	0.13	0.01						
0.45 - 0.5	5.44A	0.03A	2.72B	1.73	0.35	0.37						
0.7 - 0.8	7.35A	0.114A	8.36B	4.75	0.46	1.43						
1.2 - 1.3	8.35A	0.162A	7.11B	4.84	0.3	1.57						
2.5 - 2.6	6.23A	0.152A	7.94B	8.64	0.19	2.98						
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk		Particle	Size	Analysis	
Depth	04000	C	P	P	N	K	Densit		CS	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	-		%		,
0 - 0.02	<0.1B	2.04C									2	7.7
0 - 0.1	<0.1B	0.88C	34.7J								2.2	6.2
0.1 - 0.2	<0.1B	0.57C	10.6J								2.8	6.9
0.3 - 0.4	<0.1B	0.22C	5.5J								2.8	5.7
0.45 - 0.5	<0.1B	0.31C	3.2J								3.1	29.3
0.7 - 0.8	0.1B	0.19C	2.1J								4.7	55.2
1.2 - 1.3	<0.1B	0.14C	<1J								3	34.9
2.5 - 2.6	<0.1B	0.05C	1.7J								6.7	25.8
Depth	COLE		Grav	/imetric/Vo	olumetric V	Nater Cor	ntents		Ks	at	K unsa	t
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar	15 Bar				-
m					g - m3/m				mm	ı/h	mm/h	
0 - 0.02												

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.45 - 0.5 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

Project Name: Soil Studies in the Lower Namoi Valley Project Code: Agency Name: Site ID: EDGEROI ed033 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
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
- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z