Project Name: Project Code: Agency Name:	Soil Studies in the Lower EDGEROI Site ID: CSIRO Division of Soils (0	ed006 Obser	vation ID: 1	
Site Informatio	n			
Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	G.M. Roberts 19/08/85 Sheet No. : 8837_N 1:50000 6677700 AMG zone: 55 755600 Datum: AGD66	•	Data	Iwombi
<u>Geology</u> ExposureType: Geol. Ref.:	Undisturbed soil core No Data	Conf. Sub. is Parent. Ma Substrate Material:	at.: No Data No Data	
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co Erosion:	No Data Terrace plain 0 %	Relief: No l Slope Category: Leve	Data Data el Data	
Soil Classificat	ion			
Australian Soil C N/A ASC Confidence Confidence level	:	Mapping Ur Principal Pi Great Soil C	ofile Form:	N/A Ug5.15 Brown clay
	cultivation. Rainfed			
Vegetation:	-			
Surface Coarse				
Profile Morpho				
A11p 0 - 0.1 m	grade of structure, 50-100 Earthy fabric; Medium, (5 macropores, Moderately n	t); Dark greyish brown (10YF) mm, Subangular blocky; W - 10) mm crack; Few (<1 pe noist; Very strong consistend ; Field pH 8 (pH meter); Few	eak grade of st 100mm2) Ver ce; 0-2%, fine g	ructure, <2 mm, Granular; y fine (0.075-1mm) gravelly, 2-6mm, rounded,
A12p 0.1 - 0.3	clay; Weak grade of struct mm, Subangular blocky; per 100mm2) Very fine (0 fine gravelly, 2-6mm, rour	Brown (7.5YR4/2-Dry); , 10Y ture, 10-20 mm, Subangular Earthy fabric; Smooth-ped fa .075-1mm) macropores, Mo nded, Quartz, coarse fragme Id pH 9 (pH meter); Few, ver	blocky; Moder abric; Medium, derately moist; nts; Very few (ate grade of structure, 5-10 (5 - 10) mm crack; Few (<1 Strong consistence; 0-2%, 0 - 2 %), Calcareous, Fine
A13k 0.3 - 0.5	Prominent; Heavy clay; M structure, 5-10 mm, Angul crack; Few (<1 per 100mr consistence; 0-2%, fine gr	bist); Dark brown (7.5YR3/2- oderate grade of structure, 1 lar blocky; Smooth-ped fabri n2) Very fine (0.075-1mm) n ravelly, 2-6mm, rounded, Qu 2 mm), Nodules; Field pH 9 to -	0-20 mm, Len c; Earthy fabric nacropores, Mo artz, coarse fra	ticular; Weak grade of ;; Medium, (5 - 10) mm oderately moist; Firm agments; Very few (0 - 2
B21k 0.58 - 1 r	7.5YR72, 2-10% , 15-30m Subangular blocky; Earthy 100mm2) Very fine (0.075	Brown (7.5YR4/4-Dry); , 7.5° am, Prominent; Medium clay, y fabric; Smooth-ped fabric; 5-1mm) macropores, Modera se (6 - 20 mm), Nodules; Fiel	Moderate gra Fine, (0 - 5) mr tely moist; Firr	de of structure, 10-20 mm, n crack; Few (<1 per n consistence; Very few (0
B22 1 - 1.9 m	7.5YR72, 0-2% , 0-5mm, Angular blocky; Smooth-p (0.075-1mm) macropores	Brown (10YR4/3-Dry); , N30, Prominent; Medium clay; Mo ed fabric; Fine, (0 - 5) mm c , Moderately moist; Firm con ;; Common (10 - 20 %), Man	derate grade c rack; Few (<1 j sistence; Very	of structure, 10-20 mm, per 100mm2) Very fine few (0 - 2 %), Calcareous,

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B23 1.9 - 2.59 m Dark greyish brown (10YR4/2-Moist); Dark greyish brown (10YR4/2-Dry); , 7.5YR54, 0-2%, 5-15mm, Prominent; , 10YR72, 2-10%, 15-30mm, Prominent; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Laminae; Field pH 9 (pH meter);

Morphological Notes

A11p Infilled sand along cracks at 200-259cm.

Observation Notes

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

Site Notes

No sandy bands found at this site. Other than that it is similar to site 024.

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Project Code:	EDGEROI	Site ID:	ed006	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 - 0.02	8.36A	0.079A	30.56B	11.7	1.66	1.77				
0 - 0.1	8.57A	0.111A	22.44B	11.49	1.42	2.29				
0.1 - 0.2	9.14A	0.172A	26.92B	12.42	1.25	3.74				
0.3 - 0.4	9.47A	0.224A	25.62B	12.26	0.98	6.96				
0.7 - 0.8	9.31A	0.479A	24.53B	15.86	1.21	11.93				
1.2 - 1.3	9.05A	0.728A	24.96B	16.6	1.52	12.64				
2.5 - 2.59	9.04A	0.908000	1A28.07E	17.07	1.48	14.68				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	5
	%	С %	P ma/ka	P %	N %	K %	Density	GV	CS	FS %	Silt	Clay
m	70	70	mg/kg	70	70	70	Mg/m3			70		
0 - 0.02	<0.1B	0.75C									19.2	54.9
0 - 0.1	0.1B	0.69C	20.4J								18.4	50.9
0.1 - 0.2	0.3B	0.54C	13.1J								19.1	53.6
0.3 - 0.4	0.4B	0.44C	13.4J								17.6	50.5
0.7 - 0.8	0.5B	0.38C	20.6J								17.5	59.4
1.2 - 1.3	1B	0.14C	15.7J								17.4	63.7
2.5 - 2.59	2B	0.08C	9.4J								15.8	70.5

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3	mm/h	mm/h
0 - 0.02 0 - 0.1				

0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.59

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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
15 A O K	
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

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