Project Name: Project Code: Agency Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed128 C	Observation ID:	1		
Date Desc.:0Map Ref.:SNorthing/Long.:6Easting/Lat.:7	. McGarry 8/05/85 heet No. : 8837_N 1:50000 660900 AMG zone: 55 53900 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Auscott Ltd, Auso 201 metres No Data No Data No Data No Data	cott		
Geol. Ref.: N	Indisturbed soil core Io Data	Conf. Sub. is Pare Substrate Materia				
Morph. Type: N Elem. Type: T	lo Data lo Data <sup>c</sup> errace flat I % <b>dition (dry):</b> Self-mulching, R	Pattern Type: Relief: Slope Category: Aspect: Recently cultivated	No Data No Data Level No Data			
Erosion: Soil Classification	<b>n</b>					
Australian Soil Class N/A ASC Confidence: Confidence level not	sification:	Princ	ing Unit: ipal Profile Form: Soil Group:	N/A Ug5.15 Grey clay		
Site Disturbance: Cultivation. Irrigated, past or present Vegetation: Surface Coarse Fragments:						
<u>Profile Morpholog</u> A11p 0 - 0.1 m	Y Very dark greyish brown (1 clay; Weak grade of structu crack; Few (<1 per 100mm consistence; Field pH 7.3 ()	ure, 10-20 mm, Suba 2) Very fine (0.075-1	ngular blocky; Earth mm) macropores, N	ny fabric; Fine, (0 - 5) mm		
A12p 0.1 - 0.3 m	Very dark greyish brown (1 50mm, Angular blocky; Ea (0.075-1mm) macropores, I Calcareous, Fine (0 - 2mm	rthy fabric; Fine, (0 - Moderately moist; St	5) mm crack; Few rong consistence; V	(<1 per 100mm2) Very fine /ery few (0 - 2 %),		
A13 0.3 - 0.64 m	Angular blocky; Earthy fabr 1mm) macropores, Modera	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075- 1mm) macropores, Moderately moist; Firm consistence; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -				
A14 0.64 - 1 m Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 5-10 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; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.3 (pH meter); Few, very fine (0-1mm) roots;						
A15 1 - 1.36 m	Very dark greyish brown (1 20-50mm, Lenticular; Mod fabric; Fine, (0 - 5)mm cra Moderately moist; Firm con	erate grade of struct ck; Few (<1 per 100r	ure, 10-20 mm, Ang nm2) Very fine (0.0	jular blocky; Smooth-ped 75-1mm) macropores,		
B2 1.36 - 2.62	Moderate grade of structure crack; Few (<1 per 100mm	e, 10-20 mm, Angula 2) Very fine (0.075-1	r blocky; Smooth-p mm) macropores, N	ed fabric; Fine, (0 - 5) mm		
Morphological No A11p	Very few infilled cracks in th structured B horizon.	ne upper B2. Very littl	e carbonate, even a	at depth. Well-		

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

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID: ed128Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Site Notes

Crackspace 500.

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Agency Name:	CSIRO Divisio			

## Laboratory Test Results:

Depth	рН	1:5 EC		changeable		Na	Exchangeable	CEC		ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol (·	Acidity +)/kg				%
0 - 0.02	8.26A	0.156A	25.76B	18.91	2.44	2.23					
0 - 0.1	8.24A	0.192A	26.71B	21.6	2.52	2.73					
0.1 - 0.2	8.36A	0.163A	25.62B	21.58	2.51	3.02					
0.3 - 0.4	8.72A	0.134A	24.09B	20.92	1.98	4.08					
0.7 - 0.8	8.95A	0.334A	24.79B	24.07	1.92	7.52					
1.2 - 1.3	8.9A	0.519A	24.09B	22.24	1.96	9.53000 1					
2.5 - 2.6	9.13A	0.593A	20.93B	19.87	1.62	8.48					
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	De	rticle	Sizo	Analysis
Depth	04000	C	P	P	N	K	Density	GV	CS	FS	Silt Clay
m	%	%	mg/kg		%	%	Mg/m3	•	•••	%	• •,
0 - 0.02	<0.1B	0.62C									18.8 69.3
0 - 0.1	0.1B	0.66C	51.2J								17.5 72.3
0.1 - 0.2	<0.1B	0.58C	37J								17.2 72.8
0.3 - 0.4	<0.1B	0.55C	37.4J								17.3 74.5
0.7 - 0.8	0.4B	0.45C	55.7J								16.4 76.4
1.2 - 1.3	0.8B	0.28C	37.6J								18 78.2
2.5 - 2.6	3.6B	0.12C	15.9J								22.3 68.2
Depth	COLE		Grav	vimetric/Vc	Jumetric	Water Co	ntents		Ks	at	K unsat
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 1	5 Bar			
m					g- m3/n	13			mm	/h	mm/h
0 - 0.02											
0 - 0.1											
0.1 - 0.2											
03-04											

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

- Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method P10\_CF\_C P10\_CF\_Z