Project Name: Soil Studies in the Lower Namoi Valley

Project Code: EDGEROI Site ID: we018 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward Locality: J.R. (Jeff) Carolan, Waverley

Date Desc.: Elevation: 175 metres 24/05/88 Map Ref.: Sheet No.: 8737 N 1:50000 Rainfall: No Data Northing/Long.: 6667700 AMG zone: 55 Runoff: No Data 708600 Datum: AGD66 Easting/Lat.: Drainage: No Data

Geology

ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

Land Form

 Rel/Slope Class:
 No Data
 Pattern Type:
 No Data

 Morph. Type:
 No Data
 Relief:
 No Data

 Elem. Type:
 Terrace flat
 Slope Category:
 Level

 Slope:
 0 %
 Aspect:
 No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
N/A Principal Profile Form: N/A
ASC Confidence: Great Soil Group: Grey clay

Confidence level not specified

Site Disturbance: Cultivation. Irrigated, past or present, Complete clearing. Pasture, native or improved, cultivated at some stage,

Vegetation:

Surface Coarse Fragments:

<u>Profile</u>	Morp	<u>hology</u>
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A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Grey (10YR5/1-Dry); ; Light clay; Moderate grade of
		structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1
		per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field
		nH 7 (nH motor): Four yory fine (0.1mm) reate:

pH 7 (pH meter); Few, very fine (0-1mm) roots;

A12 0.1 - 0.3 m Very dark greyish brown (10YR3/2-Moist); ; Light clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores,

Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;

Clear, Smooth change to -

A13k 0.3 - 0.55 m Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure,

50-100 mm, Lenticular; Moderate 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;

A14k 0.55 - 1 m Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Weak grade of structure, 50-

100 mm, Lenticular; Moderate 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 9 (pH meter); Few, very fine (0-1mm) roots;

A15 1 - 1.3 m Dark grey (10YR4/1-Moist); , 10YR52, 10-20% , 5-15mm, Distinct; Light clay; Weak grade of

structure, 50-100 mm, Lenticular; Moderate 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 9 (pH meter); Diffuse, Smooth change to -

B2g 1.3 - 2.69 m Greyish brown (10YR5/2-Moist); , 5Y61, 10-20% , 15-30mm, Distinct; Light clay; Weak grade of

structure, 100-200 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; Very firm consistence; Few (2 - 10 %), Calcareous, Very

coarse (20 - 60 mm), Nodules; Field pH 9 (pH meter);

Morphological Notes

A11

Waverley. Topmost metre contains much rounded coarse sand to 2mm diameter, and some fine gravel to 4mm diameter. Carbonate nodules occur at 20cm. The gritty material

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might have originated as a surface drift (above 30cm), with the grits fall ing into prior cracks: the grit seems to be mostly on aggregate faces in the subsoil. Origin of the boundary at 30cm is doubtful.

Observation Notes

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

Site Notes

A12

2km north of gate, 200m west of fence.

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Laboratory Test Results:

Depth	pН	1:5 EC		angeable		Ex	changeable	CEC	ECEC	ESP
m		dS/m	Ca N	/lg	K	Na Cmol (+)/	Acidity kg			%
0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		cle Size	Analysis Silt Clay
m	%	%	mg/kg	%	N %	%	Mg/m3	GV (.о го %	Silt Clay
0 - 0.1 0.1 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6										
Depth	COLE		Gravi	metric/Vol	umetric W	ater Conte	ents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar - m3/m3	1 Bar	5 Bar 1	5 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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Laboratory Analyses Completed for this profile