

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** we004 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality:
Date Desc.: 23/02/89	Elevation: 175 metres
Map Ref.: Sheet No. : 8737_N 1:50000	Rainfall: No Data
Northing/Long.: 6676100 AMG zone: 55	Runoff: No Data
Easting/Lat.: 716200 Datum: AGD66	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): Surface crust

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Dark brown (7.5YR3/2-Dry); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.35 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A13	0.35 - 0.55 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Weak grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;
A14k	0.55 - 1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Lenticular; Moderate 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; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
A15k	1 - 1.3 m	Very dark greyish brown (10YR3/2-Moist); , 7.5YR42, 2-10% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2	1.3 - 3.2 m	Brown (7.5YR4/4-Moist); , 10YR32, 0-2% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 100-200 mm, Lenticular; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Diffuse, Smooth change to -

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C 3.2 - 3.34 m Brown (7.5YR4/4-Moist); , 10YR32, 0-2% , 0-5mm, Faint; Medium clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm²) Fine (1-2mm) macropores, Moderately moist; Very strong consistence; Field pH 9 (pH meter);

Morphological Notes

A11 Was bu006. Carbonate nodules start at 35cm. 0-10 has a granular structure at the top. The second and third cores contain a prominent worm channel that seems to have been used by ants. Profile passes into pm at 320cm. The pm has shiny rough
A12 y horizontal partings and small patches of soft carbonate in worm channels. Like Bingara pits. Possibly mostly aeolian sediment.

Observation Notes

Parent Rock: alluvial sediment, clay, mixed texture, with lime parna on third fan, Namoi

Site Notes

Originally bu006. Vegetation: pilliga box, Stipa, (mouldy) flatweed, naked lady. Site seems very slightly gilgaied, 5-10cm puffs and shelves, with several open pipes, see photo. Soil profile like middle terrace.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca Mg K	Na Cmol (+)/kg			%
0 - 0.1							
0.1 - 0.2							
0.3 - 0.4							
0.7 - 0.8							
1.2 - 1.3							
2.5 - 2.6							
3.2 - 3.3							

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Laboratory Analyses Completed for this profile