

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** we016 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: stock route, near Warrambool Creek
Date Desc.: 04/04/88	Elevation: 173 metres
Map Ref.: Sheet No. : 8737_N 1:50000	Rainfall: No Data
Northing/Long.: 6656400 AMG zone: 55	Runoff: No Data
Easting/Lat.: 703350 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: Red-brown earth

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Brown (7.5YR4/2-Moist); Brown (7.5YR5/3-Dry); ; Loamy sand; Massive grade of structure; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.15 m	Brown (7.5YR4/2-Moist); ; Sandy loam; Massive grade of structure; Weak grade of structure, 5-10 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.15 - 0.3 m	Dark reddish grey (5YR4/2-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B22	0.3 - 0.55 m	Brown (7.5YR4/4-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Columnar; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
B23	0.55 - 1 m	Brown (7.5YR4/4-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Columnar; Moderate grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
B24	1 - 1.3 m	Brown (7.5YR4/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	1.3 - 2.56 m	Brown (7.5YR5/4-Moist); , 10YR64, 10-20% , 15-30mm, Prominent; , 7.5YR62, 0-2% , 5-15mm, Faint; Clayey sand; Massive grade of structure; Massive grade of structure; Smooth-ped fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 7.5 (pH meter);

Morphological Notes

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A11 Bu016 on core is incorrect. This core shows a sandy red duplex profile to 30cm, on clayier calcareous sediments. Resembles Aloomba pit. There is a depositional texture break at 30cm with levee bank sediments on prior clays; this is probably
A12 the same riverine episode - an inherited lithological discontinuity. An 8cm thick band of sand occurs at 130-138cm above massive clayey sands with minor carbonate filaments.
B21 This is the top of the parent sediments, which are sandy again, like the topsoil. Q.

Observation Notes

Parent Rock: alluvial sediment, sand, clay second terraced fan, Namoi

Site Notes

Brown sandy surface, adjoining creek - ?red terrace.

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile