

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed113 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M. Korevaar	Locality:	stock route, near Green Timbers
Date Desc.:	09/03/85	Elevation:	213 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6663100 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	760800 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 plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug5.15
		Great Soil Group:	Grey clay

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.06 m	Very dark grey (10YR3/1-Moist); Very dark grey (10YR3/1-Dry); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.06 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 6.7 (pH meter); Common, very fine (0-1mm) roots; Clear, Wavy change to -
A13	0.2 - 0.65 m	Very dark greyish brown (10YR3/2-Moist); , 10YR82, 0-2% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.65 - 0.95 m	Dark brown (10YR3/3-Moist); , 10YR72, 0-2% , 5-15mm, Distinct; , 10YR81, 0-2% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B22	0.95 - 1.9 m	Dark brown (7.5YR3/4-Moist); , 10YR32, 20-50% , 15-30mm, Distinct; , 10YR81, 0-2% , 0-5mm, Distinct; Medium heavy clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Many (20 - 50 %), Organic (humified), Coarse (6 - 20 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.2 (pH meter); Few, very fine (0-1mm) roots;
B23	1.9 - 3 m	Brown (7.5YR4/4-Moist); , 10YR41, 20-50% , 15-30mm, Distinct; , 10YR83, 0-2% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.3 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -

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C 3 - 4.3 m Strong brown (7.5YR5/6-Moist); , 2.5Y32, 10-20% , 15-30mm, Distinct; Coarse sandy light clay; Massive grade of structure; Moderate grade of structure, 20-50 mm, Cast; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm²) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Common (10 - 20 %), Organic (humified), Coarse (6 - 20 mm), Veins; Field pH 8.5 (pH meter);

Morphological Notes

A11 Epipedon, colour break at 95cm. Does not fit key well as peds more e than s. Visible sedimentary structures at ~3m. At 120cm medium heavy clay has coarse sand in it.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, basalt parna on fourth fan

Site Notes

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method