

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** na014 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	D. McGarry	Locality:	stock route, near Noonameena
Date Desc.:	22/02/88	Elevation:	224 metres
Map Ref.:	Sheet No. : 8837_S 1:50000	Rainfall:	No Data
Northing/Long.:	6646230 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	770800 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:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching, Trampled

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, <2 mm, Granular; Rough-ped fabric; Moderately moist; Very strong consistence; Field pH 7 (pH meter);
A12	0.1 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Moderately moist; Rigid consistence; Field pH 7.5 (pH meter);
A13	0.25 - 0.55 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Rigid consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter);
A14	0.55 - 0.95 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Rigid consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Gradual, Smooth change to -
B2	0.95 - 2.35 m	Dark yellowish brown (10YR3/4-Moist); , 10YR21, 2-10% , 5-15mm, Distinct; Medium heavy clay; Weak grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Clear, Smooth change to -
C	2.35 - 2.63 m	Yellowish red (5YR5/6-Moist); , 10YR31, 2-10% , 0-5mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter);

Morphological Notes

A11	The 0-2cm layer was not sampled separately. It is strongly pedal, granular. Thin, in situ beds of alluvial fine gravels including basalt, transported carbonate and a clay ball occur below 230cm. We think that sample bags for na014 were numbered na011 incorrectly, giving two sets of na011. Na001 was identified by its 300-310cm sample.
A12	

Observation Notes

Parent Rock: alluvial sediment, from sandstone, clay and basalt, with lime, parna on third fan

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Very similar to na013, but surface soil is a little more crusting (though still fine self-mulching) and not as soft and deep. There is no surface calcium carbonate here.

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[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