

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed182 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.M. Roberts	Locality: Clive Jones, Thornbro
Date Desc.: 26/04/85	Elevation: 205 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6653700 AMG zone: 55	Runoff: No Data
Easting/Lat.: 757800 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): 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: Brown clay

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 8.7 (pH meter); Common, very fine (0-1mm) roots;
A12	0.1 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Light medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 0.01m ²) Medium (2-5mm) macropores, Moderately moist; Strong consistence; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.3 - 0.7 m	Dark greyish brown (10YR4/2-Moist); , 10YR83, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Rigid consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.7 - 1 m	Brown (10YR4/3-Moist); , 10YR83, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;
B22	1 - 1.8 m	Brown (10YR4/3-Moist); , 10YR64, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B23	1.8 - 2.74 m	Brown (10YR4/3-Moist); , 10YR66, 2-10% , 5-15mm, Distinct; , 10YR21, 0-2% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Earthy 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 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

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Parent Rock: , , second terraced fan, Namoi

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na			Acidity
0 - 0.02	8.18A	0.223A	23.25B	6.64	2.14	0.29			
0 - 0.1	8.82A	0.195A	21.44B	6.35	1.48	1.38			
0.1 - 0.2	9.63A	0.284A	18.36B	8.39	0.65	4.44			
0.3 - 0.4	9.79A	0.672A	10.97B	10.46	0.6	11.36			
0.7 - 0.8	9.6A	1.337A	6.93B	9.79	0.53	15.29			
1.2 - 1.3	9.2A	1.567A	6.62B	11.13	0.49	16.48			
2.5 - 2.6	9.35A	1.454A	6.37B	10.99	0.59	16.71			

Depth	CaCO ₃	Organic C	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m ³	Particle Size		Analysis	
								GV	CS	FS %	Silt Clay
m	%	%									
0 - 0.02	1.9B	2.84C									23.6 42.5
0 - 0.1	1.2B	1.94C	43.8J								16.9 44.7
0.1 - 0.2	4.7B	0.8C	7.1J								17 45.1
0.3 - 0.4	4.3B	0.76C	7.5J								19 47.5
0.7 - 0.8	2.5B	0.46C	17.5J								21.2 45.9
1.2 - 1.3	0.1B	0.2C	21.5J								24.6 51.7
2.5 - 2.6	0.2B	0.08C	15.3J								15.4 50.6

[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