

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed200 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.M. Roberts	Locality:	C. Freer, Aloomba
Date Desc.:	16/10/85	Elevation:	204 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6651250 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	759200 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:	Flood plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm, Trampled

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Db1.13
		Great Soil Group:	Alluvial soil

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Very pale brown (10YR7/3-Dry); , 10YR31, 10-20% , 5-15mm, Distinct; Silty clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, angular tabular, Sandstone, coarse fragments; Field pH 7.2 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;
A13	0.25 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 10YR63, 2-10% , 0-5mm, Faint; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 8.7 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change
B2	0.5 - 0.7 m	Dark brown (10YR3/3-Moist); , 10YR54, 10-20% , 5-15mm, Distinct; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8.7 (pH meter); Common, very fine (0-1mm) roots; Clear, Smooth change to -
2A1	0.7 - 0.9 m	Dark brown (10YR3/3-Moist); , 10YR43, 10-20% , 15-30mm, Distinct; Silty clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8.7 (pH meter); Gradual, Smooth change to -
2B21	0.9 - 1.9 m	Dark brown (10YR3/3-Moist); , 10YR53, 10-20% , 15-30mm, Distinct; , 10YR31, 0-2% , 5-15mm, Faint; Medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.7 (pH meter);

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2B22 1.9 - 2.73 m Dark brown (10YR3/3-Moist); , 10YR53, 10-20% , 15-30mm, Distinct; , 10YR31, 0-2% , 15-30mm, Faint; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 8.7 (pH meter);

Morphological Notes

A11 A few cast granules in 200.03. Carbonate in fine earth below 80cm. The infilled material is very fine silt in fine bands. The horizon differentiation between .05 and .06 is based solely on texture. Evident depositional foreset bedding at 16

A12 0-180.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, non-calcareous, first terraced fan, Namoi

Site Notes

Proline. Dense at depth. 60 degrees mag.to house at top of slope, car bodies nearby. Vegetation identification doubtful, should be repeated.

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Exchangeable Cations			Exchangeable Acidity Na Cmol (+)/kg	CEC	ECEC	ESP %
			Ca	Mg	K				
0 - 0.02	6.97A	0.188A	14.56B	12.27	1.67	1.09			
0 - 0.1	7.93A	0.113A	12.01B	9.940001	0.71	1.94			
0.1 - 0.2	8.5A	0.111A	15.58B	9.8	0.49	3.31			
0.3 - 0.4	9.12A	0.296A	14.55B	11.3	0.38	7.74			
0.6 - 0.7	8.19A	1.883A	8.55B	11.87	0.4	9.14			
0.7 - 0.8	8.34A	1.784A	7.47B	11.29	0.4	9.91			
1.2 - 1.3	9.53A	0.832A	5.99B	10.58	0.43	13.83			
2.5 - 2.6	9.51A	0.542A	3.94B	11.02	0.49	21.34			

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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