

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed180 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	M. Korevaar	Locality:	stock route, at Yarral
Date Desc.:	06/03/85	Elevation:	202 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6653800 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	752300 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

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug6.1
		Great Soil Group:	Brown clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); Dark grey (10YR4/1-Dry); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Field pH 6 (pH meter); Few, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.08 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); Dark grey (10YR4/1-Dry); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Field pH 6.5 (pH meter); Few, fine (1-2mm) roots;
A13	0.25 - 0.4 m	Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Common (1-5 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Strong consistence; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Gradual, Smooth change to -
A14	0.4 - 0.78 m	Very dark greyish brown (10YR3/2-Moist); , 10YR42, 20-50% , 15-30mm, Distinct; Medium clay; Weak grade of structure, 100-200 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 8.7 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2k	0.78 - 1.2 m	Brown (10YR4/3-Moist); , 10YR83, 2-10% , 5-15mm, Prominent; Medium heavy clay; Weak grade of structure, 50-100 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; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
C1	1.2 - 1.9 m	Brown (10YR4/3-Moist); , 10YR83, 2-10% , 0-5mm, Prominent; , 10YR32, 2-10% , 15-30mm, Distinct; Fine sandy light clay; Weak grade of structure, 20-50 mm, Angular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.1 (pH meter); Few, very fine (0-1mm) roots;
C2	1.9 - 3 m	Dark yellowish brown (10YR4/4-Moist); , 10YR42, 2-10% , 5-15mm, Distinct; Silty clay loam; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Field pH 7.8 (pH meter);

Morphological Notes

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Observation Notes

Parent Rock: , , second terraced fan, Namoi

Site Notes

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Project Code: EDCERO1 **Site ID:** 3a
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	6.86A	0.204A	16.82B	7.03	4.16	<0.01			
0 - 0.08	6.41A	0.102A	14.1B	8.08	2.76	0.23			
0.1 - 0.2	7.33A	0.057A	19.23B	9.57	1	0.53			
0.3 - 0.4	7.88A	0.087A	20.56B	11.24	0.79	1.19			
0.7 - 0.78	8.53A	0.172A	19.75B	12.52	0.89	1.89			
1 - 1.1	8.62A	0.258A	16.73B	11.35	0.77	1.75			
1.2 - 1.3	8.64A	0.224A	14.75B	11.27	0.56	1.64			
2.5 - 2.6	8.14A	0.087A	13.01B	11.74	0.39	1.64			

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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