

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed145 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	E. Veldhuis	Locality:	V.T.(Vic) Melbourne, Yarral
Date Desc.:	06/05/85	Elevation:	200 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6658600 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	752500 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, Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug5.17
		Great Soil Group:	Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Dark grey (10YR4/1-Dry); ; Light medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.8 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); Dark grey (10YR4/1-Dry); ; Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; 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 (pH meter); Few, fine (1-2mm) roots;
A13	0.25 - 0.43 m	Very dark greyish brown (10YR3/2-Moist); , 10YR71, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Smooth-ped 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, Fine (0 - 2 mm), Nodules; Field pH 8.2 (pH meter); Few, fine (1-2mm) roots;
A14	0.43 - 1 m	Very dark greyish brown (10YR3/2-Moist); , 10YR42, 0-2% , 0-5mm, Faint; , 10YR71, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
A15	1 - 1.7 m	Very dark greyish brown (10YR3/2-Moist); , 10YR61, 0-2% , 0-5mm, Distinct; Medium heavy clay; Massive grade of structure; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
2B2	1.7 - 2.69 m	Strong brown (7.5YR5/6-Moist); , 5YR34, 2-10% , 5-15mm, Prominent; , 5YR41, 2-10% , 0-5mm, Distinct; Clayey sand; Single grain grade of structure, <2 mm; Moderate grade of structure, 5-10 mm, Cast; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8 (pH meter);

Morphological Notes

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Parent Rock: alluvial sediment, clay, sand parna on fourth fan, Namoi

Site Notes

Observation Notes

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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	8.55A	0.164A	26.57B	16.86	2.41	1.26			
0 - 0.1	8.07A	0.132A	23.01B	15.04	1.51	1.26			
0.1 - 0.2	8.28A	0.128A	24.56B	16.87	1.58	1.46			
0.3 - 0.4	8.91A	0.233A	25.96B	20.55	1.04	3.73			
0.7 - 0.8	9.11A	0.471A	19.1B	22.42	0.82	8.7			
1.2 - 1.3	9.14A	0.528A	18.67B	23.79	0.92	10.09			
2.5 - 2.6	9.19A	0.206A	7.46B	10.38	<0.01	5.48			

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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