

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** na035 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> W.T. Ward	<b>Locality:</b> Mrs H. Barton, Round Swamp
<b>Date Desc.:</b> 02/02/88	<b>Elevation:</b> 199 metres
<b>Map Ref.:</b> Sheet No. : 8837_S 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6649000 AMG zone: 55	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 745600 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Lake	<b>Slope Category:</b> Level
<b>Slope:</b> %	<b>Aspect:</b> No Data

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> N/A
	<b>Great Soil Group:</b> No suitable

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); Grey (10YR6/1-Dry); , 10YR82, 0-2% , 0-5mm, Prominent; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C1	0.15 - 0.27 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Massive grade of structure; Earthy fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
C2	0.27 - 0.55 m	(N4/0-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;
C3	0.55 - 1 m	(N4/0-Moist); , 10YR61, 0-2% , 0-5mm, Distinct; Medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Tubules; Field pH 7.5 (pH meter);
C4	1 - 2 m	Greyish brown (2.5Y5/2-Moist); , N40, 2-10% , 5-15mm, Distinct; Light clay; Massive grade of structure; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Firm consistence; Field pH 8 (pH meter); Diffuse, Smooth change to -
D	2 - 2.92 m	Light grey (2.5Y7/2-Moist); ; Light clay; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; Field pH 8.5 (pH meter);

#### Morphological Notes

A1	Was originally na004. Note single pebble at 35cm. Stains at 15-25cm follow root passages. Fine horizontal sandy laminae at 250-260cm. The deep dark layer at the surface indicates soil formation. Core just touches mottled zone found at this
C1	depth in na036. Na03506 is probably base of lake clays (i.e. base of watersorted aeolian sediment?).

#### Observation Notes

Parent Rock: aeolian sediment, clay, parna in swamp

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Site is in dried lake basin - gilgai are evident on lake bed. Surface is sun-cracked. Site is 10m from na036 on a shelf with clay surface. Originally numbered na004.

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**Laboratory Analyses Completed for this profile**

15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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