

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed366 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	W.T. Ward	<b>Locality:</b>	Frank O'Neill, Llano
<b>Date Desc.:</b>	28/01/87	<b>Elevation:</b>	198 metres
<b>Map Ref.:</b>	Sheet No. : 8837_N 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6673150 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	752330 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>	Fan	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Surface crust, Trampled

**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>	Ug5.4
		<b>Great Soil Group:</b>	Grey clay

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Grey (10YR5/1-Dry); , 10YR51, 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Dark brown (7.5YR3/2-Moist); , 10YR72, 0-2% , 0-5mm, Faint; Medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;
A13	0.25 - 0.5 m	Dark brown (7.5YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8 (pH meter); Few, very fine (0-1mm) roots;

**Morphological Notes**

A11 Llano 3. A marked surface crust. Root frequency seems to have increased slightly at 30-40cm.

**Observation Notes**

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

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**Laboratory Test Results:**

0 - 0.1  
0.1 - 0.2  
0.3 - 0.4

0 - 0.1  
0.1 - 0.2  
0.3 - 0.4

0 - 0.1  
0.1 - 0.2  
0.3 - 0.4

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Laboratory Analyses Completed for this profile