

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed402 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	W.T. Ward	<b>Locality:</b>	Twynam Pastoral Co., Boolcarrol
<b>Date Desc.:</b>	06/12/85	<b>Elevation:</b>	188 metres
<b>Map Ref.:</b>	Sheet No. : 8837_N 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6674770 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	742370 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>	Terrace plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** 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>	N/A
		<b>Great Soil Group:</b>	N/A

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); Greyish brown (10YR5/2-Dry); , 10YR72, 2-10% , 0-5mm, Prominent; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Abrupt, Wavy change to -
A12p	0.05 - 0.25 m	Dark greyish brown (10YR4/2-Moist); Very dark greyish brown (10YR3/2-Dry); , 10YR63, 0-2% , 0-5mm, Prominent; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Very firm consistence; Clear, Smooth change to -
A13g	0.25 - 0.75 m	Very dark greyish brown (10YR3/2-Moist); , 10YR74, 0-2% , 0-5mm, Distinct; , 10YR63, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 10-20 mm, Platy; Earthy fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Diffuse, Smooth change to -
B2b	0.75 - 1.6 m	Reddish brown (5YR4/4-Moist); , 7.5YR64, 2-10% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 50-100 mm, Platy; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Diffuse, Smooth change to -
C	1.6 - 1.82 m	Brown (7.5YR4/4-Moist); , N20, 0-2% , 0-5mm, Faint; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Strong consistence;

#### Morphological Notes

A11 All soil samples to I.P.L. Inwashed sand in 402.03 is at 75cm. Inwashed sand in 402.02 seems to be from the groundsurface. Carbonate towards the base of the B2 is softer and 6-20mm.

#### Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, clay parna on fourth fan, Namoi

#### Site Notes

Profile R5. Full easting, northing, elevation: 42372.74772.187.95m.

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0 - 0.05  
0.05 - 0.25  
0.25 - 0.75  
0.75 - 1.6  
1.6 - 1.82

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Laboratory Analyses Completed for this profile