

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed212 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b>	D. McGarry	<b>Locality:</b>	stock route, on flank of Bald Hill
<b>Date Desc.:</b>	10/06/86	<b>Elevation:</b>	218 metres
<b>Map Ref.:</b>	Sheet No. : 8837_N 1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6669600 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	758200 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>	No Data	<b>Slope Category:</b>	No Data
<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>	Ug5.15
		<b>Great Soil Group:</b>	Grey clay

#### Site Disturbance:

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Abrupt, Irregular change to -
A12	0.07 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 0.01m2) Coarse (>5mm) macropores, Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Field pH 7.3 (pH meter); Common, fine (1-2mm) roots;
A13	0.25 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Lenticular; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 8.7 (pH meter); Few, very fine (0-1mm) roots; Clear, Wavy change to -
B2	0.7 - 1.05 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Lenticular; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth
2B2	1.05 - 2.2 m	Brown (7.5YR4/4-Moist); , 5YR46, 2-10% , 5-15mm, Distinct; , N20, 0-2% , 0-5mm, Prominent; Light medium clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Moderately moist; Firm consistence; Few (2 - 10 %), Argillaceous, Medium (2 -6 mm), Tubules; Very few (0 - 2 %), Argillaceous, Medium (2 -6 mm), Tubules; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 8.5 (pH meter); Gradual, Smooth change to -
2C	2.2 - 2.75 m	Brown (7.5YR4/4-Moist); , 5YR46, 10-20% , 30-mm, Prominent; , N80, 10-20% , 30-mm, Prominent; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 20-50%, coarse gravelly, 20-60mm, subangular, Basalt, coarse fragments; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 7.5 (pH meter);

#### Morphological Notes

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**Observation Notes**

Parent Rock: , , Nandewar Volcanics

**Site Notes**



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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
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method