

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed105 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	D. McGarry	Locality:	Bill Guest, Glen Cairn
Date Desc.:	10/10/85	Elevation:	434 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6664700 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	786850 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:	Hillcrest	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	180 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr4.22
		Great Soil Group:	Soloth

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 6 (pH meter); Common, fine (1-2mm) roots;
A12	0.1 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 6 (pH meter); Common, fine (1-2mm) roots; Gradual, Wavy change to -
A2	0.25 - 0.4 m	Strong brown (7.5YR4/6-Moist); , 10YR31, 2-10% , 5-15mm, Prominent; Loamy sand; Massive grade of structure; Earthy fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.4 - 0.6 m	Yellowish red (5YR5/6-Moist); , 10YR31, 2-10% , 5-15mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B22	0.6 - 0.95 m	Brownish yellow (10YR6/6-Moist); , 2.5YR46, 10-20% , 15-30mm, Prominent; , 7.5YR62, 2-10% , 5-15mm, Prominent; Medium heavy clay; Strong grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 5-10 mm, Angular blocky; Earthy fabric; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations; Field pH 5.5 (pH meter); Few, fine (1-2mm) roots; Sharp, Wavy change to -
B23	0.95 - 1.55 m	Pale brown (10YR6/3-Moist); , 2.5YR46, 10-20% , 15-30mm, Prominent; , 7.5YR62, 2-10% , 5-15mm, Prominent; Clayey coarse sand; Moderate grade of structure, 10-20 mm, Angular blocky; Massive grade of structure; Earthy fabric; Smooth-ped fabric; Medium, (5 - 10) mm crack; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Soft segregations; Field pH 6.2 (pH meter); Few, medium (2-5mm) roots; Sharp, Wavy change to -

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R 1.55 - 2.63 m Rock

Morphological Notes

A11 Large, 25mm waterworn quartz gravels adjacent to break between B22 and B23.

Observation Notes

Parent Rock: residual, sandstone, Pilliga Sandstone, weathered

Site Notes

Site is being cleared of native forest. About 60cm of sand on reddish grading to yellowish subsoil on sandstone encountered in second metre. This sandstone is below structural escarpment of basalt. The col to north is probably veneered with

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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