

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed338 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: I.O.(Ian) Falkiner, Murrumbilla
Date Desc.: 10/08/87	Elevation: 351 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6654000 AMG zone: 55	Runoff: No Data
Easting/Lat.: 780850 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: No Data
Slope: %	Aspect: 20 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.41
	Great Soil Group: Solodic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); ; Sand; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 5.8 (pH meter); Few, medium (2-5mm) roots; Gradual, Irregular change to -
A21	0.1 - 0.2 m	Very pale brown (10YR8/3-Moist); , 10YR43, 0-2% , 5-15mm, Prominent; Sand; Single grain grade of structure, <2 mm; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, medium (2-5mm) roots;
A22c	0.2 - 0.28 m	White (10YR8/2-Moist); ; Sand; Single grain grade of structure, <2 mm; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Loose consistence; 50-90%, coarse gravelly, 20-60mm, subangular, Quartz, coarse fragments; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Sharp, Wavy change to -
B21	0.28 - 0.55 m	Strong brown (7.5YR5/8-Moist); , 10YR72, 20-50% , 30-mm, Prominent; , 2.5YR46, 0-2% , 0-5mm, Distinct; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots;
B22	0.55 - 1.05 m	Strong brown (7.5YR5/8-Moist); , 10YR72, 20-50% , 30-mm, Prominent; , 2.5YR46, 0-2% , 0-5mm, Distinct; Light medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
C	1.05 - 1.16 m	Pale yellow (2.5Y7/4-Moist); , 10YR62, 10-20% , 5-15mm, Distinct; , 5YR56, 2-10% , 0-5mm, Distinct; Light clay; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; 90-100%, cobbly, 60-200mm, angular tabular, Sandstone, coarse fragments; Few, very fine (0-1mm) roots;

Morphological Notes

A1 Colour 3 size is very fine, final remnant of primary colour. 338.05 also has common distinct medium 10YR6/2 organic stains on ped faces; these continue into fissures in sandstone rock at bottom of core. No reason to suppose that this profil

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A21 e has any colluvial veneer. Parent rock is perhaps mostly prior soil on sandstone. C horison not sampled.

Observation Notes

Parent Rock: residual, sandstone, Pilliga Sandstone, weathered

Site Notes

Site 338 is 20m N of the quarry edge, in natural forest. Very loose surface.

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Laboratory Test Results:

[illegible][illegible][illegible]

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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