

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed120 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	Forestry Commission of NSW, Bobbiwaa State Forest
Date Desc.:	26/06/86	Elevation:	323 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6662600 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	780200 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:	Pediment	Slope Category:	Gently inclined
Slope:	2 %	Aspect:	200 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Uc4.11
		Great Soil Group:	Siliceous sand

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Greyish brown (10YR5/2-Dry); , 10YR54, 0-2% , 0-5mm, Distinct; Loamy sand; Weak grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A21	0.1 - 0.25 m	Yellowish brown (10YR5/4-Moist); , 7.5YR54, 2-10% , 5-15mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots;
A22	0.25 - 0.55 m	Light yellowish brown (10YR6/4-Moist); , 10YR53, 2-10% , 5-15mm, Faint; , 7.5YR58, 0-2% , 0-5mm, Distinct; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A23	0.55 - 0.94 m	Light yellowish brown (10YR6/4-Moist); , 10YR72, 10-20% , 5-15mm, Distinct; , 5YR58, 0-2% , 5-15mm, Distinct; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very weak consistence; Field pH 5.8 (pH meter); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
C	0.94 - 2.76 m	Reddish yellow (7.5YR6/8-Moist); , 10YR81, 2-10% , 5-15mm, Distinct; Loamy sand; Massive grade of structure; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Rigid consistence; Field pH 6.5 (pH meter);

Morphological Notes

A11	The surface "crust" is weak, and the sand also occurs in worm burrows in 0-10. A2 extends to 94cm and rests on weathered rock. Expected B horizon is not present. Grey and yellowish brown weathered rock continues to 276. A2 structure best termed single-grain than massive. Field texture of 12005 estimated from lab results.
A21	

Observation Notes

Parent Rock: residual, sandstone, Pilliga Sandstone

Site Notes

Soft after 50mm rain. Topography easy sloping as part of general easy undulating. 0-94 sand, mottled, porous at base with iron concretions. Also one specimen veg ?119. Plus Eucalyptus trachyphloia (sample). Base of A2 is possibly 94 or 96,

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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