

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed122 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	Denis Whiteman, Dalman Downs
Date Desc.:	20/01/86	Elevation:	402 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6662450 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	785600 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:	260 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:	Uc2.2
		Great Soil Group:	Siliceous sand

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 brown (10YR2/2-Moist); Very dark greyish brown (10YR3/2-Dry); , 10YR63, 0-2% , 0-5mm, Prominent; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Field pH 4 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.28 m	Dark brown (7.5YR3/2-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Field pH 5.5 (pH meter); Few, medium (2-5mm) roots; Gradual, Smooth change to -
B?	0.28 - 0.5 m	Yellowish brown (10YR5/4-Moist); , N20, 2-10% , 5-15mm, Prominent; Sand; Massive grade of structure; Smooth-ped fabric; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Charcoal, coarse fragments; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.5 - 1.17 m	Red (2.5YR4/8-Moist); , 10YR72, 20-50% , 30-mm, Prominent; Sand; Massive grade of structure; Weak grade of structure, 2-5 mm, Cast; 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, fine (1-2mm) roots; Clear, Smooth change to -
B22g	1.17 - 1.93 m	Yellow (10YR7/6-Moist); , 10YR82, 20-50% , 30-mm, Prominent; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Few, very fine (0-1mm) roots; Sharp, Smooth change to -

Morphological Notes

A11	Surface colour 10YR6/3. Abundant charcoal fragments occur, down to 60. Grey subsoil colour surrounds root channels etc. At 136cm there is contact with Purlawaugh Formation, its upper 20cm weathered 10YR8/1 plus few flecks 2.5YR4/8, grading to 5Y7/1 siltstone, in thin plates.
A12	

Observation Notes

Parent Rock: residual, sandstone, mudstone Pilliga Sandstone

Site Notes

12 years after clearing and one crop. Second core is into sandstone plus clayey laminae. Curricabah.

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Project Code: EDCERO1 Site ID: 3d
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.02	5.41A	0.01A	0.17B	<0.1	0.16	<0.01			
0 - 0.1	5.54A	0.04A	0.38B	0.17	0.17	0.09			
0.1 - 0.2	4.83A	0.02A	<0.1B	<0.1	0.14	<0.01			
0.3 - 0.4	5.08A	0.012A	<0.1B	<0.1	0.14	<0.01			
0.7 - 0.8	5.08A	0.011A	<0.1B	<0.1	0.06	0.01			
1.2 - 1.3	5.51A	0.013A	<0.1B	0.4	0.11	0.07			

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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