

Project Name: CAN
Project Code: CAN **Site ID:** C119 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	Townsend County Parish Morago portion 60 - mid flood plain of prior stream
Date Desc.:	25/04/55	Elevation:	120 metres
Map Ref.:	Sheet No. : 7827 1:100000	Rainfall:	410
Northing/Long.:	144.766666666667	Runoff:	Slow
Easting/Lat.:	-35.416666666667	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Flood plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Level
Slope:	<1 %	Aspect:	125 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Calcic Subnatric Grey Sodosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	Grey-brown calcareous soil
All necessary analytical data are available.		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus largiflorens

Surface Coarse Fragments:

Profile Morphology

A1A2	0 - 0.06 m	Greyish brown (2.5Y5/2-Moist); , 10YR63, 20-50% , 15-30mm; Sandy loam; Weak grade of structure, 10-20 mm, Platy; Dry; Firm consistence; Field pH 6.5 (pH meter);
B2	0.06 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Strong consistence; Field pH 8.2 (pH meter); Clear, Wavy change to -
B2	0.15 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, 100-200 mm, Prismatic; Dry; Strong consistence; Common (10 - 20 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Field pH 8.9 (pH meter);
	0.3 - 0.55 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Field pH 8.8 (pH meter);
	0.55 - 0.7 m	Light brownish grey (2.5Y6/3-Moist); , 2.5Y63, 2-10% ; , 5YR56, 2-10% ; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Soft segregations; Field pH 8.2 (pH meter);
	0.7 - 0.84 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y64, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Soft segregations; Field pH 8.4 (pH meter); Gradual change to -
	0.84 - 1.07 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y63, 20-50% ; , 20-50% ; Medium heavy clay; Strong grade of structure, 50-100 mm, Angular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Soft segregations; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

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Site Notes

DENIMEIN

PLEISTOCENE RIVERINE DEPOSIT

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Laboratory Test Results:

Depth m	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
		dS/m	Ca	Mg	K	Na	Acidity			%
0 - 0.06	6.5A	0.054A	3.8K	3.3	1.4	0.11	4.38E		8.6B	
0.06 - 0.15	8.2A	0.077A	9.1K	10.6	1.7	2.3	2.17E		23.7B	
0.15 - 0.3	8.9A	0.1A								
0.3 - 0.55	8.8A	1.23A								
0.55 - 0.7	8.2A	1.92A								
0.7 - 0.84	8.4A	1.95A								
0.84 - 1.07	8.5A	1.77A								

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS	FS %	Silt	Clay
0 - 0.06		1.04D		0.046D	0.109B				34D	32	22	12
0.06 - 0.15		0.58D		0.048D	0.058B				19D	20	12	49
0.15 - 0.3									15D	22	14	49
0.3 - 0.55									21D	23	14	40
0.55 - 0.7									25D	20	19	36
0.7 - 0.84									25D	21	22	32
0.84 - 1.07									27D	22	15	36

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2A1	Air-dry moisture content
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance