

Project Name: CAN **Site ID:** C116 **Observation ID:** 1
Project Code: CAN **Agency Name:** CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	Townsend County Parish Marago portion 60 levee of prior stream
Date Desc.:	23/04/55	Elevation:	160 metres
Map Ref.:	Sheet No. : 7827 1:100000	Rainfall:	410
Northing/Long.:	144.766666666667	Runoff:	Moderately rapid
Easting/Lat.:	-35.4166666666667	Drainage:	Moderately well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Rolling plains <9m 10-32%	Pattern Type:	Low hills
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Moderately inclined
Slope:	5 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Subnartic Brown Sodosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Solonetz

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus largiflorens, Casuarina leuhmannii

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.05 m	Pale brown (10YR6/3-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Platy; Dry; Very firm consistence; Field pH 6.6 (pH meter);
A2	0.05 - 0.15 m	Light grey (10YR7/2-Moist); ; Light clay; Single grain grade of structure; Dry; Very firm consistence; Field pH 7.2 (pH meter);
B2	0.15 - 0.23 m	Dark brown (10YR3/3-Moist); ; Sandy medium clay; 20-50 mm, Prismatic; Moderate grade of structure, 50-100 mm, Prismatic; Moderately moist; Strong consistence; Field pH 7.9 (pH meter); Sharp, Wavy change to -
B2	0.23 - 0.36 m	Yellowish brown (10YR5/4-Moist); , 10YR32, 2-10% ; Sandy medium clay; Massive grade of structure; Moderate grade of structure, 100-200 mm, Prismatic; Moderately moist; Strong consistence; Field pH 8.5 (pH meter);
B2	0.36 - 0.48 m	Dark greyish brown (10YR4/2-Moist); , 10YR56, 20-50% ; , 10YR62, 20-50% ; Sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 9 (pH meter);
Bk	0.53 - 0.66 m	Brown (10YR4/3-Moist); , 10YR64, 20-50% ; Medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.3 (pH meter);
Bk	0.74 - 0.84 m	Brown (10YR4/3-Moist); , 10YR64, 20-50% ; , 2.5Y64, 20-50% ; Light clay; 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Earthy, , Soft segregations; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Gradual change to -
	0.97 - 1.12 m	; Massive grade of structure; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
	1.12 - 1.22 m	; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);

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1.47 - 1.6 m Grey (5YR6/1-Moist); , 10YR68, 20-50% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Particle CS	Size FS %	Analysis Silt	Analysis Clay
0 - 0.05		1.26D		0.06D	0.111B			33D	35	18	14	
0.05 - 0.15		0.68D		0.044D	0.058B			37D	33	18	12	
0.15 - 0.23								26D	22	13	39	
0.23 - 0.36								25D	23	14	38	
0.36 - 0.48								33D	26	12	29	
0.53 - 0.66								21D	26	22	31	
0.74 - 0.84								32D	25	19	24	
0.97 - 1.12								5D	65	7	23	
1.12 - 1.22								21D	27	12	40	
1.47 - 1.6								18D	24	14	44	

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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