Project Name: CAN
Project Code: CAN **Site ID:** C117 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	**Locality:**	Dahwilly TSR 1000 (Parish) Townsend County
Date Desc.:	23/04/55	**Elevation:**	120 metres
Map Ref.:	Sheet No. : 7827 1:100000	**Rainfall:**	410
Northing/Long.:	144.906111111111	**Runoff:**	No Data
Easting/Lat.:	-35.4166666666667	**Drainage:**	No Data

Geology

ExposureType:	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:	Undulating plains <9m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	4 %	**Aspect:**	140 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Endocalcareous Massive Grey Vertosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Grey clay

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:
Low Strata - Sod grass, , . *Species includes - None recorded
Mid Strata - Chenopod shrub, , . *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Casuarina leuhmannii

Surface Coarse Fragments:

Profile Morphology

A1A2	0 - 0.02 m	Light brownish grey (2.5Y6/2-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Platy; Dry; Firm consistence; Field pH 6.6 (pH meter);
B2	0.02 - 0.1 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; 10-20 mm, Angular blocky; Strong grade of structure, 50-100 mm, Prismatic; Dry; Very firm consistence; Field pH 7 (pH meter); Sharp, Wavy change to -
	0.1 - 0.25 m	Greyish brown (2.5Y5/2-Moist); , 2.5Y52, 0-2% ; Medium heavy clay; 20-50 mm, Angular blocky; Strong grade of structure, 100-200 mm, Prismatic; Firm consistence; Field pH 7.1 (pH meter);
	0.3 - 0.42 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Firm consistence; Field pH 7 (pH meter);
	0.71 - 0.84 m	Pale olive (5Y6/3-Moist); ; Medium heavy clay; Weak grade of structure, 100-200 mm, Lenticular; Firm consistence; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), ; Field pH 6.7 (pH meter);
	0.97 - 1.09 m	Light brownish grey (2.5Y6/3-Moist); , 5Y61, 20-50% ; , 5YR56, 20-50% ; Medium heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Firm consistence; , Gypseous, Medium (2 -6 mm), ; Field pH 7.1 (pH meter); Gradual change to -
	1.47 - 1.68 m	Light grey (5Y7/1-Moist); , 10YR66, 20-50% ; , 2.5Y64, 20-50% ; Medium heavy clay; Weak grade of structure; Firm consistence; Many cutans, >50% of ped faces or walls coated, distinct; Common (10 - 20 %), Gypseous, Extremely coarse (> 60 mm), ; Field pH 7.5 (pH meter);
	2.03 - 2.13 m	Light grey (5Y7/2-Moist); , 2.5Y64, 20-50% ; Medium heavy clay; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, , ; Field pH 8.3 (pH meter);

Morphological Notes

Observation Notes

PLEISTOCENE RIVERINE DEPOSIT RIVERINA CLAY

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.02	6.6A	0.137A	5K	6.6	1.6	0.79	4.95E		14B	
0.02 - 0.1	7A	0.369A	8.6K	10.9	1.5	3.1	4.08E		24.1B	
0.1 - 0.25	7.1A	1.24A								
0.3 - 0.42	7A	2.99A								
0.71 - 0.84	6.6A	2.83A								
0.97 - 1.09	6.7A	5.54A								
1.47 - 1.68	7.1A	5.54A								
2.03 - 2.13	7.5A	4.58A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%			
0 - 0.02		1.18D		0.055D	0.117B				13D	41	14	32
0.02 - 0.1		0.6D		0.043D	0.088B				7D	27	10	56
0.1 - 0.25									6D	21	12	61
0.3 - 0.42									4D	18	9	69
0.71 - 0.84		0.23D							4D	16	10	70
0.97 - 1.09									14D	14	25	47
1.47 - 1.68									9D	16	42	33
2.03 - 2.13									12D	28	8	52

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.02										
0.02 - 0.1										
0.1 - 0.25										
0.3 - 0.42										
0.71 - 0.84										
0.97 - 1.09										
1.47 - 1.68										
2.03 - 2.13										

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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