

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP110      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	Mayfair just east of Bruneel Swamp: backswamp:
<b>Date Desc.:</b>	20/12/78	<b>Elevation:</b>	0 metres
<b>Map Ref.:</b>	Sheet No. : 8737 1:100000	<b>Rainfall:</b>	1150
<b>Northing/Long.:</b>	150.663888888889	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-34.9111111111111	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>Exposure Type:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Backplain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	<1 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):** Soft

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
No Available Class Stratic Oxyaquic Hydrosol	<b>Principal Profile Form:</b>	Um5.51
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Alluvial soil
Analytical data are incomplete but reasonable confidence.		

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Shrub, , . \*Species includes - None recorded

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A	0 - 0.1 m	Black (5Y2/1-Moist); ; Clay loam (Sapric); Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 5.1 (pH meter); Clear change to -
D	0.1 - 0.2 m	Black (5Y2/1-Moist); , 5Y32, 2-10% ; , 2-10% ; Light clay; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 5.3 (pH meter); Gradual change to -
D	0.2 - 0.3 m	Very dark grey (5Y3/1-Moist); , 10YR56, 0-2% ; , 0-2% ; Light clay; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 5.8 (pH meter); Gradual change to -
D	0.3 - 0.4 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y53, 10-20% ; , 10-20% ; Clay loam; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 6.6 (pH meter); Clear change to -
D	0.4 - 0.5 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y53, 20-50% ; , 20-50% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 7.5 (pH meter); Gradual change to -
D	0.5 - 0.6 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y53, 20-50% ; , 20-50% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 7.5 (pH meter); Gradual change to -
D	0.6 - 0.7 m	(N5/0-Moist); , 10YR44, 2-10% ; , 2-10% ; Silty clay loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 7.2 (pH meter); Gradual change to -
D	0.7 - 0.8 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR44, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 0-2%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 7 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR44, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 5.8 (pH meter); Gradual change to -
D	0.9 - 1 m	Very dark grey (2.5Y3/0-Moist); , 7.5YR44, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 4.9 (pH meter); Gradual change to -

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D	1 - 1.2 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10% ; , 2-10% ; Silty clay loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 5 (pH meter); Gradual change to -
D	1.2 - 1.4 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10% ; , 2-10% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 6.1 (pH meter); Gradual change to -
D	1.4 - 1.6 m	Very dark grey (2.5Y3/0-Moist); , 10YR44, 0-2% ; , 0-2% ; Silty loam; Wet; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 6.3 (pH meter);

**Morphological Notes**

**Observation Notes**

ALLUVIAL BACKSWAMP SEDIMENTS

**Site Notes**

BRUNDEE

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.1A	1.8A								
0.1 - 0.2	5.3A	1.4A								
0.2 - 0.3	5.8A	1.6A								
0.3 - 0.4	6.6A	1.4A								
0.4 - 0.5	7.5A	2.3A								
0.5 - 0.6	7.5A	2.8A								
0.6 - 0.7	7.2A	2.8A								
0.7 - 0.8	7A	2.6A								
0.8 - 0.9	5.8A	3A								
0.9 - 1	4.9A	4A								
1 - 1.2	5A	5.5A								
1.2 - 1.4	6.1A	5.5A								
1.4 - 1.6	6.3A	6.3A								

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0 - 0.1		7.84D							0D	17	31	40
0.1 - 0.2		5.64D							0D	17	34	42
0.2 - 0.3		2.56D							1D	22	33	40
0.3 - 0.4		1.36D										
0.4 - 0.5		1.04D										
0.5 - 0.6		1.04D							10D	40	22	24
0.6 - 0.7		1.36D										
0.7 - 0.8		0.99D										
0.8 - 0.9		1.15D										
0.9 - 1		2.31D							6D	48	24	19
1 - 1.2		3.41D										
1.2 - 1.4		3.4D										
1.4 - 1.6		3.31D							1D	25	43	28

[illegible]

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**Laboratory Analyses Completed for this profile**

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
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