

Project Name: CAN
Project Code: CAN **Site ID:** CP109 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

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

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Flood plain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Very gently sloped
Slope:	<1 %	Aspect:	270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
No Available Class Stratic Oxyaquic Hydrosol		Principal Profile Form:	Uf1.41
ASC Confidence:		Great Soil Group:	Alluvial soil

Analytical data are incomplete but reasonable confidence.

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

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A	0 - 0.1 m	Dark grey (5Y4/1-Moist); , 5Y21, 2-10% ; , 10YR56, 2-10% ; Light medium clay; Massive grade of structure; Moist; Very firm consistence; Field pH 5.1 (pH meter); Gradual change to -
A	0.1 - 0.2 m	Dark grey (5Y4/1-Moist); , 5Y42, 2-10% ; , 10YR56, 2-10% ; Light medium clay; Massive grade of structure; Wet; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 5.6 (pH meter); Clear change to -
D	0.2 - 0.3 m	Grey (5Y5/1-Moist); , 10YR56, 0-2% ; , 0-2% ; Sandy loam; Massive grade of structure; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 5.8 (pH meter); Gradual change to -
D	0.3 - 0.4 m	Grey (5Y5/1-Moist); , 10YR56, 0-2% ; , 0-2% ; Loamy sand; Massive grade of structure; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.9 (pH meter); Gradual change to -
D	0.4 - 0.5 m	Olive grey (5Y5/2-Moist); , 10YR56, 0-2% ; , 0-2% ; Sand; Massive grade of structure; Wet; Very weak consistence; Non-plastic; Non-sticky; Field pH 5.3 (pH meter); Gradual change to -
D	0.5 - 0.6 m	Dark grey (5Y4/1-Moist); , 2.5Y54, 2-10% ; , 2-10% ; Loamy sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.6 (pH meter); Gradual change to -
D	0.6 - 0.7 m	Dark grey (5Y4/1-Moist); , 2.5Y54, 2-10% ; , 2-10% ; Loamy sand; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.5 (pH meter); Clear change to -
D	0.7 - 0.8 m	Dark grey (2.5Y4/0-Moist); , 2.5Y54, 20-50% ; , 5Y84, 20-50% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Tubules; Field pH 4.6 (pH meter); Clear change to -
D	0.8 - 0.9 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10% ; , 2-10% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.7 (pH meter); Gradual change to -
D	0.9 - 1 m	Very dark grey (2.5Y3/0-Moist); , 2.5Y42, 2-10% ; , 2-10% ; Fine sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.4 (pH meter); Gradual change to -
	1 - 1.2 m	Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2% ; , 0-2% ; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; Field pH 4.7 (pH meter); Gradual change to -

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1.2 - 1.4 m	Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2% ; , 0-2% ; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 5.1 (pH meter); Gradual change to -
1.4 - 1.6 m	Very dark grey (2.5Y3/0-Moist); , 10YR33, 0-2% ; , 0-2% ; Silty loam; Very weak consistence; Slightly plastic; Moderately sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

ALLUVIAL SEDIMENTS

Site Notes

BRUNDEE

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[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