Project Name: SC
Project Code: SC **Site ID:** CP103 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	**Locality:**	Mayfair just east of Brundee Swamp:levee crest
Date Desc.:	20/12/78	**Elevation:**	2 metres
Map Ref.:	Sheet No. : 8928 1:100000	**Rainfall:**	1150
Northing/Long.:	150.663888888889	**Runoff:**	Very slow
Easting/Lat.:	-34.9111111111111	**Drainage:**	Imperfectly drained

Geology

ExposureType:	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:	Crest	**Relief:**	No Data
Elem. Type:	Levee	**Slope Category:**	Level
Slope:	<1 %	**Aspect:**	270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Melacic Regolithic Chernic Tenosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Gn3.9
Great Soil Group: Prairie soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Granular; Moist; Firm consistence; Field pH 5.2 (pH meter); Gradual change to -
A	0.1 - 0.2 m	Dark brown (7.5YR3/2-Moist); ; Clay loam; Strong grade of structure, <2 mm, Granular; Moist; Weak consistence; Field pH 5.3 (pH meter); Gradual change to -
A	0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Moderate grade of structure, 5-10 mm, Subangular blocky; Moist; Firm consistence; Field pH 5.4 (pH meter); Clear change to -
B	0.3 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); , 10YR54, 10-20% ; , 10-20% ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Firm consistence; Very few (0 - 2 %), , , Tubules; Field pH 5.2 (pH meter); Gradual change to -
B	0.4 - 0.5 m	Brown (7.5YR4/2-Moist); , 5Y62, 10-20% ; , 2.5Y63, 10-20% ; Light clay; Massive grade of structure; Moist; Weak consistence; Field pH 4.9 (pH meter); Gradual change to -
BC	0.5 - 0.6 m	Strong brown (7.5YR5/6-Moist); , 5GY41, 10-20% ; , 10-20% ; Clay loam, fine sandy; Moist; Weak consistence; Field pH 4.8 (pH meter); Clear change to -
C	0.6 - 0.7 m	Grey (5Y5/1-Moist); , 7.5YR56, 20-50% ; , 20-50% ; Sandy clay loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.9 (pH meter); Clear change to -
D	0.7 - 0.8 m	Grey (2.5Y5/1-Moist); , 10YR54, 2-10% ; , 2-10% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.9 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Grey (5Y6/1-Moist); , 10YR56, 10-20% ; , 10-20% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.8 (pH meter); Gradual change to -
D	0.9 - 1 m	Strong brown (7.5YR5/6-Moist); , N60, 10-20% ; , 10-20% ; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.6 (pH meter); Clear change to -
	1 - 1.2 m	Strong brown (7.5YR5/6-Moist); , N50, 20-50% ; , 5YR56, 20-50% ; Loamy sand; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.6 (pH meter); Gradual change to -

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1.2 - 1.4 m	Strong brown (7.5YR5/6-Moist); , N50, 20-50% ; , 5YR56, 20-50% ; Loamy sand; Very weak consistence; Slightly plastic; Slightly sticky; Few (2 - 10 %), Ferruginous, Very coarse (20 - 60 mm), Tubules; Field pH 4.7 (pH meter); Clear change to -
1.4 - 1.6 m	Yellowish brown (10YR5/4-Moist); , N40, 20-50% ; , 20-50% ; Loamy sand; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.3 (pH meter); Clear change to -
1.6 - 1.7 m	Dark yellowish brown (10YR4/4-Moist); ; Sand; Very weak consistence; Non-plastic; Non-sticky; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.1 (pH meter); Clear change to -
1.7 - 1.8 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 2-10% ; Silty loam; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.4 (pH meter); Gradual change to -
1.8 - 2 m	Dark grey (5Y4/1-Moist); , 5Y84, 2-10% ; , 2-10% ; Silty loam; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.6 (pH meter); Gradual change to -
2 - 2.2 m	Very dark grey (5Y3/1-Moist); , 10YR42, 0-2% ; , 0-2% ; Silty loam; Very weak consistence; Slightly plastic; Slightly sticky; Field pH 4.5 (pH meter); Gradual change to -
2.2 - 2.4 m	Very dark grey (5Y3/0-Moist); , 10YR42, 0-2% ; , 0-2% ; Silty loam; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 5.4 (pH meter);

Morphological Notes

Observation Notes

ALLUVIAL SEDIMENTS:THICK GRASS SWARD ON SURFACE

Site Notes

BRUNDEE

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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 - 0.1	5.2A	0.11A								
0.1 - 0.2	5.3A	0.09A								
0.2 - 0.3	5.4A	0.09A								
0.3 - 0.4	5.2A	0.12A								
0.4 - 0.5	4.9A	0.19A								
0.5 - 0.6	4.8A	0.26A								
0.6 - 0.7	4.9A	0.33A								
0.7 - 0.8	4.9A	0.44A								
0.8 - 0.9	4.8A	0.66A								
0.9 - 1	4.6A	0.86A								
1 - 1.2	4.6A	1.2A								
1.2 - 1.4	4.7A	1.3A								
1.4 - 1.6	4.3A	1.4A								
1.6 - 1.7	4.1A	1.7A								
1.7 - 1.8	4.4A	2.5A								
1.8 - 2	4.6A	2.9A								
2 - 2.2	4.5A	3.5A								
2.2 - 2.4	5.4A	3.9A								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		5.74D							1D	28	32	32
0.1 - 0.2		4.53D							1D	28	30	34
0.2 - 0.3		3.35D							0D	27	31	37
0.3 - 0.4		1.78D										
0.4 - 0.5		0.86D							0D	45	27	29
0.5 - 0.6		0.73D										
0.6 - 0.7		0.6D										
0.7 - 0.8		0.39D										
0.8 - 0.9		0.3D										
0.9 - 1		0.24D							23D	23	10	12
1 - 1.2		0.28D										
1.2 - 1.4		0.64D										
1.4 - 1.6		0.6D										
1.6 - 1.7		0.34D										
1.7 - 1.8		1.45D										
1.8 - 2		1.86D							4D	51	26	18
2 - 2.2		3.11D										
2.2 - 2.4		3.68D										

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 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										

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0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.2
1.2 - 1.4
1.4 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 2
2 - 2.2
2.2 - 2.4

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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