SC **Project Name:**

Project Code: Site ID: **CP105** Observation ID: 1 SC

Agency Name: CSIRO Division of Soils (NSW)

Site Information

P.H. Walker Locality: Mayfair just east of Brunee Swamp:Planar levee side

Desc. By: Date Desc.: Elevation: 19/12/78 1 metres Sheet No.: 8928 1:100000 Map Ref.: 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.: **Substrate Material:** Porous, Unconsolidated material No Data

(unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Flood plain Morph. Type: Mid-slope Relief: No Data

Elem. Type: Slope Category: Very gently sloped Levee Aspect: 1 % 270 degrees Slope:

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Melacic Regolithic Chernic Tenosol **Principal Profile Form:** Gn3.9 **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 - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m

,,	0 0.1111	Weak consistence; Field pH 5.2 (pH meter); Clear change to -
Al	3 0.1 - 0.2 m	Black (10YR2/1-Moist); , 5Y51, 2-10%; , 7.5YR56, 2-10%; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moist; Firm consistence; Field pH 4.8 (pH meter); Clear change to -
В	0.2 - 0.3 m	Dark grey (5Y4/1-Moist); , 7.5YR56, 2-10%; , 2-10%; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; Field pH 4.7 (pH meter); Abrupt change to -
D	0.3 - 0.4 m	Dark grey (5Y4/1-Moist); , 7.5YR56, 0-2%; , 0-2%; Sandy loam; Massive grade of structure; Moist; Weak consistence; Field pH 4.8 (pH meter); Gradual change to -
D	0.4 - 0.5 m	Dark grey (5Y4/1-Moist); , 7.5YR56, 0-2%; , 0-2%; Sandy loam; Massive grade of structure; Moist; Weak consistence; Field pH 4.6 (pH meter); Gradual change to -
D	0.5 - 0.6 m	Dark grey (5Y4/1-Moist); , $10YR66$, $20-50\%$; , $20-50\%$; Loamy sand; Moist; Weak consistence; Field pH 4.7 (pH meter); Gradual change to -
D	0.6 - 0.7 m	Dark grey (5Y4/1-Moist); , 10YR66, 20-50%; , 20-50%; Sandy loam; Wet; Very weak consistence; Non-plastic; Non-sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.6 (pH meter); Gradual change to -
D	0.7 - 0.8 m	Olive brown (2.5Y4/4-Moist); , N50, 20-50%; , 7.5YR56, 20-50%; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Tubules; Field pH 4.6 (pH meter); Gradual change to -
D	0.8 - 0.9 m	Olive brown (2.5Y4/4-Moist); , N50, 20-50%; , 7.5YR56, 20-50%; Sandy loam; Wet; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Field pH 4.6 (pH meter); Gradual change to -

Black (10YR2/1-Moist); ; Silty clay loam; Weak grade of structure, 2-5 mm, Granular; Moist;

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Dark grey (5Y4/1-Moist); , 10YR56, 2-10%; , 2-10%; Loamy sand; Wet; Very weak consistence; 0.9 - 1 m Slightly plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.6 (pH meter);

Gradual change to -

1 - 1.2 m Dark grey (5Y4/1-Moist); , 10YR56, 2-10%; , 2-10%; Loamy sand; Very weak consistence; Slightly plastic; Slightly sticky; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Gravel,

coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules; Field pH 4.4 (pH

meter); Gradual change to -

Dark grey (5Y4/1-Moist); , 10YR44, 10-20%; , 10-20%; Sandy loam; Very weak consistence; 1.2 - 1.3 m

Slightly plastic; Slightly sticky; Field pH 4.4 (pH meter); Clear change to -

Very dark grey (5Y3/1-Moist); , 5Y84, 2-10%; , 2-10%; Silty loam; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 4.7 (pH meter); Gradual change to -1.3 - 1.6 m

Very dark grey (2.5Y3/0-Moist); , 5Y53, 2-10%; , 10YR33, 2-10%; Silty loam; Very weak 1.6 - 1.9 m

consistence; Moderately plastic; Moderately sticky; Field pH 4.7 (pH meter);

Morphological Notes

Observation Notes

ALLUVIAL LEVEE SEDIMENTS

Site Notes

BRUNDEE

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Depth	pH	1:5 EC	Excl	hangeable (Cations	F	xchangeable	CEC	FC	CEC	,	ESP
m	P ···				K	Na Cmol (+)/	Acidity	0_0	_,			%
m 0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.2 1.2 - 1.3 1.3 - 1.6	5.2A 4.8A 4.7A 4.8A 4.6A 4.6A 4.6A 4.6A 4.6A 4.4A 4.4A 4.7A	0.17A 0.16A 0.12A 0.12A 0.13A 0.14A 0.2A 0.22A 0.28A 0.38A 0.51A 1.1A				Cmol (+)/	kg					%
1.6 - 1.9 Depth m	4.7A CaCO3	3.1A Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV		ze A S %	analysis Silt	
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7		6.39D 3.57D 1.04D 0.75D 0.63D 0.33D 0.46D							2D 2D 9D	27 33 46	32 29 20	32 32 20
0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.2 1.2 - 1.3 1.3 - 1.6 1.6 - 1.9		0.54D 0.8D 0.87D 0.72D 1.14D 1.66D 3.03D							17D 2D 1D	63 51 45	11 26 31	9 19 18
Depth	COLE		Grav	imetric/Vol	umetric W	ater Conte	ants		K sat		K unsa	
m	0022	Sat.	0.05 Bar	0.1 Bar	0.5 Bar - m3/m3	1 Bar		Bar	mm/h		mm/h	•
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.5 - 0.6 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1 1 - 1.2 1.2 - 1.3 1.3 - 1.6												

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1.6 - 1.9

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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