

**Project Name:** NC  
**Project Code:** NC **Site ID:** C463 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	P.H. Walker	<b>Locality:</b>	Clybucca Swampland 50M south of Clybucca drain
<b>Date Desc.:</b>	10/04/61	<b>Elevation:</b>	1 metres
<b>Map Ref.:</b>	Sheet No. : 9435 1:100000	<b>Rainfall:</b>	1200
<b>Northing/Long.:</b>	152.95	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	-30.9166666666667	<b>Drainage:</b>	Very poorly drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Slightly porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Stagnant alluvial plain
<b>Morph. Type:</b>	Closed Depression	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Swamp	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Class Undetermined Sulphuric Redoxic Hydrosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable group
No analytical data are available but confidence is fair.			

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

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

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

**Profile Morphology**

P1	0 - 0.08 m	Black (10YR2/1-Moist); , 5YR46; Massive grade of structure; Wet; Weak consistence; Field pH 3.9 (pH meter); Diffuse change to -
	0.15 - 0.41 m	Dark greyish brown (10YR4/2-Moist); , 2.5Y84, 0-2% ; , 0-2% ; Silty medium clay; Massive grade of structure; Very weak consistence; Moderately plastic; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 3.6 (pH meter); Common
	0.51 - 0.91 m	Very dark grey (5Y3/1-Moist); , 2.5Y84, 2-10% ; , 2-10% ; Medium clay (Light); Massive grade of structure; Very weak consistence; Moderately plastic; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 3.3 (pH meter); Common
	1.07 - 1.37 m	Very dark grey (5Y3/1-Moist); ; Medium clay (Light); Massive grade of structure; Very weak consistence; Moderately plastic; 2-10%, fine gravelly, 2-6mm, dispersed, Shells, coarse fragments; Field pH 5.6 (pH meter);

**Morphological Notes**

**Observation Notes**

RIVERINE SEDIMENT:PEAT OVER PARTIALLY OXIDISED ESTUARINE CLAY (KATTEKLEI):INTERMITTENT Y CRUST:HIGLY HYDRATED FE OXIDE

**Site Notes**

KEMPSEY

**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 - 0.08	3.9A	1.76C								
0.15 - 0.41	3.6A	1.34C								
0.51 - 0.91	3.3A	3.27C								
1.07 - 1.37	5.6A	2.97C								

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**Laboratory Analyses Completed for this profile**

2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
7_NR	Total nitrogen (%) - Not recorded