

Project Name: NC
Project Code: NC **Site ID:** C462 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	~200M west of Xmas Creek drain on Kempsey/Frederickton Road
Date Desc.:	10/04/61	Elevation:	2 metres
Map Ref.:	Sheet No. : 9435 1:100000	Rainfall:	1200
Northing/Long.:	152.858333333333	Runoff:	Slow
Easting/Lat.:	-31.0458333333333	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:	Gently undulating plains <9m 1-3%	Pattern Type:	Flood plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Tenosolic Redoxic Hydrosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	No suitable group
No analytical data are available but confidence is fair.			

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

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - Pennisetum clandestinum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.13 m	Dark grey (10YR4/1-Moist); , 10YR51, 20-50% ; , 20-50% ; Light clay (Light); Strong grade of structure, 20-50 mm, Granular; Firm consistence; Few (2 - 10 %), Ferruginous, , Soft segregations; Field pH 5.6 (pH meter); Common
0.15 - 0.3 m	Dark grey (10YR4/1-Moist); , 2.5YR36, 20-50% ; , 20-50% ; Silty light clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Ferruginous, , Soft segregations; Field pH 5.5 (pH meter); Common
0.3 - 0.41 m	Dark grey (10YR4/1-Moist); , 10R31, 20-50% ; , 5YR44, 20-50% ; Silty light clay; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferruginous, , Soft segregations; Field pH 5.4 (pH meter); Common
0.46 - 0.66 m	Dark grey (10YR4/1-Moist); , 10R31, 20-50% ; , 5YR44, 20-50% ; Sandy light clay; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferruginous, , Soft segregations; Field pH 5.3 (pH meter); Common
0.76 - 0.91 m	Dark grey (10YR4/1-Moist); , 2.5YR34, 10-20% ; , 10-20% ; Light clay; Very weak consistence; Moderately plastic; Very few (0 - 2 %), Ferruginous, , Soft segregations; Field pH 5.2 (pH meter); Common
1.12 - 1.37 m	Grey (10YR6/1-Moist); , 5YR34, 10-20% ; , 10-20% ; Light medium clay; Very weak consistence; Moderately plastic; Very few (0 - 2 %), Ferruginous, , Soft segregations; Field pH 5.3 (pH meter); Common
1.73 - 2.03 m	Grey (10YR6/1-Moist); , 5YR34, 10-20% ; , 10-20% ; Light medium clay; Very weak consistence; Moderately plastic; Very few (0 - 2 %), Ferruginous, , Soft segregations; Field pH 4.6 (pH meter); Common
2.31 - 2.62 m	Grey (10YR5/1-Moist); , 5YR34, 2-10% ; , 2.5Y84, 2-10% ; Sandy light clay; Very weak consistence; Moderately plastic; Very few (0 - 2 %), Ferruginous, , Tubules; Field pH 3.9 (pH meter); Few
2.69 - 2.87 m	Dark grey (10YR4/0-Moist); ; Light medium clay; Very weak consistence; Moderately plastic;

Morphological Notes

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FINE GRAINED ALLUVIUM:K0 SHOWING DEPOSITIONAL LAYERING:HYDROMORPHIC SOIL (GLEYS):LAYER 3
LAYERED:LAYER 9 ESTUARINE CLAY:

Site Notes

KEMPSEY

Observation Notes

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 - 0.13	5.6A	0.11A	6.6K	4.8	0.35	0.52		16G		3.25
0.15 - 0.3	5.5A	0.143A								
0.3 - 0.41	5.4A	0.155A								
0.46 - 0.66	5.3A	0.15A								
0.76 - 0.91	5.2A	0.164A								
1.12 - 1.37	5.3A	0.158A								
1.73 - 2.03	4.6A	0.247A								
2.31 - 2.62	3.9A	0.071A								

[illegible][illegible]

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Laboratory Analyses Completed for this profile

15_HSK_CEC	CEC - meq per 100g of soil - HOSK
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
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
6_DC	Organic carbon (%) - Dry combustion
7_NR	Total nitrogen (%) - Not recorded
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