

Project Name: NC
Project Code: NC **Site ID:** C464 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	Macleay River bank: end of Laneway across Glenrock
Date Desc.:	10/04/61	Elevation:	6 metres
Map Ref.:	Sheet No. : 9435 1:100000	Rainfall:	1200
Northing/Long.:	152.866666666667	Runoff:	Slow
Easting/Lat.:	-31.05	Drainage:	Well 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:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Ridge	Relief:	No Data
Elem. Type:	Levee	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Orthic Tenosol		Principal Profile Form:	N/A
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, , . *Species includes - Pennisetum clandestinum

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Single grain grade of structure; Very weak consistence; Field pH 6.1 (pH meter); Diffuse change to -
0.05 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Single grain grade of structure; Very weak consistence; Field pH 6.3 (pH meter); Sharp change to -
0.15 - 0.23 m	Very dark brown (10YR2/2-Moist); , 10YR32, 20-50% ; , 20-50% ; Sandy loam; Massive grade of structure; Very weak consistence; Field pH 6.5 (pH meter); Sharp change to -
0.23 - 0.38 m	Yellowish brown (10YR5/4-Moist); , 10YR42, 20-50% ; , 20-50% ; Sandy loam; Single grain grade of structure; Very weak consistence; Field pH 6.5 (pH meter); Sharp change to -
0.38 - 0.43 m	Greyish brown (2.5Y5/2-Moist); , 10YR42, 20-50% ; , 20-50% ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 6.2 (pH meter);
0.43 - 0.48 m	Light yellowish brown (10YR6/4-Moist); , 10YR52, 20-50% ; , 20-50% ; Sandy loam; Single grain grade of structure; Very weak consistence; Field pH 6.1 (pH meter);
0.48 - 0.58 m	Dark grey (10YR4/1-Moist); , 5YR34; Sandy loam; Massive grade of structure; Weak consistence; Field pH 6 (pH meter);
0.61 - 0.74 m	Yellowish brown (10YR5/4-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; Field pH 6 (pH meter); Sharp change to -
0.74 - 0.84 m	Very dark brown (10YR2/2-Moist); ; Clay loam; Massive grade of structure; Weak consistence; Field pH 6 (pH meter);
0.89 - 1.09 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Massive grade of structure; Weak consistence; Field pH 6.3 (pH meter);
1.09 - 1.32 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Massive grade of structure; Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 6.6 (pH meter);
1.32 - 1.55 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Single grain grade of structure; Weak consistence; Few cutans, <10% of ped faces or walls coated; Field pH 6.6 (pH meter);

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1.55 - 1.68 m Yellowish brown (10YR5/4-Moist); ; Loamy sand; Single grain grade of structure; Very weak consistence;

Morphological Notes

Observation Notes

ALLUVIUM:STRATIFIED RIVER BANK DEPOSIT WITH SOME EVIDENCE OF SOIL DEVELOPMENT AT DEPTH:FAUNAR FILL TO 130CM:

Site Notes

KEMPSEY

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Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.05	6.1A	0.095A	3.6K	2.5	1.6	0.14		8.8G	1.59
0.05 - 0.15	6.3A	0.057A							
0.15 - 0.23	6.5A	0.063A	4.6K	1.8	1.2	0.14		8.1G	1.73
0.23 - 0.38	6.5A	0.033A							
0.38 - 0.43	6.2A	0.042A							
0.43 - 0.48	6.1A	0.039A							
0.48 - 0.58	6A	0.039A							
0.61 - 0.74	6A	0.042A							
0.74 - 0.84	6A	0.06A							
0.89 - 1.09	6.3A	0.036A							
1.09 - 1.32	6.6A	0.033A							
1.32 - 1.55	6.6A	0.036A							
1.55 - 1.68	6.6A	0.036A							

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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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
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