

Project Name: NC
Project Code: NC **Site ID:** C456 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	Sherwood/Euroka Road south Macleay River 1.3KM east of Dungay Creek Crossing
Date Desc.:	09/04/61	Elevation:	50 metres
Map Ref.:	Sheet No. : 9435 1:100000	Rainfall:	1200
Northing/Long.:	152.833333333333	Runoff:	Moderately rapid
Easting/Lat.:	-31.1	Drainage:	Well drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Non-porous, dense, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	Pattern Type:	Hills
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Magnesic Yellow Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	No suitable group
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: No effective disturbance. Natural

Vegetation:

Tall Strata - Tree, , Mid-dense. *Species includes - Eucalyptus species

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, , Substrate material

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam; Massive grade of structure; Moderately moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, dispersed, Substrate material, coarse fragments; Field pH 5.7 (pH meter); Wavy change to -
A21	0.05 - 0.18 m	Brown (7.5YR5/4-Moist); ; Clay loam; Massive grade of structure; Dry; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, Substrate material, coarse fragments; Field pH 5.7 (pH meter);
A22	0.18 - 0.38 m	Brown (7.5YR5/4-Moist); ; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Substrate material, coarse fragments; Field pH 6 (pH meter);
B1	0.38 - 0.64 m	Reddish yellow (7.5YR7/5-Moist); ; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Substrate material, coarse fragments; Field pH 6.1 (pH meter);
B1	0.64 - 0.76 m	Light brown (7.5YR6/4-Moist); , 7.5YR75, 10-20% ; , 10-20% ; Clay loam; Massive grade of structure; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Substrate material, coarse fragments; Field pH 6.3 (pH meter); Smooth change to -
D	0.76 - 0.86 m	Brown (10YR5/3-Moist); , 2.5Y82, 20-50% ; , 10YR64, 20-50% ; Light clay; Massive grade of structure; Moist; Firm consistence; 50-90%, dispersed, Shale, coarse fragments; Field pH 6.1 (pH meter);
	0.86 - 0.96 m	;

Morphological Notes

Shale bedrock

Observation Notes

K2 HILLSIDE CATENA ON METASEDIMENTS (PROBABLY PERMIAN) GREY BROWN SOIL

Site Notes

KEMPSEY

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[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_GRAV	Gravel (%)
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