

Project Name: NC
Project Code: NC **Site ID:** C450 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	Locality:	Belgrave Falls Road (adjacent to Wards place)
Date Desc.:	01/12/60	Elevation:	30 metres
Map Ref.:	Sheet No. : 9435 1:100000	Rainfall:	1200
Northing/Long.:	152.75	Runoff:	Slow
Easting/Lat.:	-31.0958333333333	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Terrace (alluvial)
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	2 %	Aspect:	No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Melanic Mesotrophic Red Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red podzolic soil

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.18 m	Very dark brown (10YR2/2-Moist); ; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence; Field pH 5.5 (pH meter);
A1	0.18 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence;
A2	0.3 - 0.43 m	Very dark greyish brown (10YR3/2-Moist); , 10YR43, 20-50% ; , 20-50% ; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence; Field pH 5.6 (pH meter);
B1	0.43 - 0.58 m	Brown (10YR5/3-Moist); , 2.5YR56, 20-50% ; , 10YR31, 20-50% ; Clay loam, fine sandy; Massive grade of structure; Moist; Weak consistence; Field pH 5.6 (pH meter);
B2	0.58 - 0.86 m	Red (2.5YR4/6-Moist); , 10YR56, 10-20% ; , 10-20% ; Medium clay; Massive grade of structure; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.8 (pH meter);
B2	0.86 - 1.17 m	Red (2.5YR4/6-Moist); , 2.5Y66, 20-50% ; , 20-50% ; Medium clay (Heavy); Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 5.7 (pH meter);
B2	1.17 - 1.37 m	Red (10R4/6-Moist); , 10YR54, 20-50% ; , 5YR46, 20-50% ; Medium clay; Massive grade of structure; Moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.6 (pH meter);
BC	1.37 - 1.73 m	Strong brown (7.5YR4/8-Moist); , 10YR43, 20-50% ; , 10YR71, 20-50% ; Medium clay; Massive grade of structure; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 5.5 (pH meter);
C	1.73 - 2.03 m	Dusky red (7.5R3/4-Moist); , 10R46, 20-50% ; , 10R43, 20-50% ; Medium clay; Massive grade of structure; Moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; , Unidentified, , Tubules; Field pH 5.4 (pH meter); Common
C	2.54 - 3.05 m	Red (10R5/6-Moist); , 10YR66, 20-50% ; , 5Y81, 20-50% ; Medium clay; Massive grade of structure; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, dispersed, Shale, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct;

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3.2 - 3.35 m	Weak red (10R4/4-Moist); , 5Y81, 20-50% ; , 10YR68, 20-50% ; Light clay; Massive grade of structure; Very firm consistence; 20-50%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Common
3.68 - 3.86 m	Dark reddish brown (2.5YR3/4-Moist); , 10R68, 20-50% ; , 5Y81, 20-50% ; Light clay; Massive grade of structure; 50-90%, medium gravelly, 6-20mm, dispersed, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Few

Morphological Notes

Observation Notes

ALLUVIUM:K4 SOIL:WORM ACTIVITY TO 3M (RELIC AT DEPTH)

Site Notes

KEMPSEY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.18	5.5A	0.042A	2K	1.8	0.22	0.16		13J	1.23
0.18 - 0.3	5.6A	0.024A							
0.3 - 0.43	5.6A	0.033A	0.41K	2.4	0.46	0.17		7.8J	2.18
0.43 - 0.58	5.8A	0.018A							
0.58 - 0.86	5.7A	0.021A							
0.86 - 1.17	5.6A	0.021A							
1.17 - 1.37	5.5A	0.027A							
1.37 - 1.73	5.4A	0.027A							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis		
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.18		3.3F			0.192B				9D	52	21	14
0.18 - 0.3									7D	51	21	19
0.3 - 0.43					0.054B				6D	39	18	35
0.43 - 0.58												
0.58 - 0.86									3D	20	13	62
0.86 - 1.17												
1.17 - 1.37												
1.37 - 1.73									3D	25	17	52

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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