Project Name: CAN
Project Code: CAN **Site ID:** CP156 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	P.H. Walker	**Locality:**	Sampled w side of erosion gully on Nowra Ck
Date Desc.:	01/01/79	**Elevation:**	52 metres
Map Ref.:	Sheet No. : 9028 1:100000	**Rainfall:**	1150
Northing/Long.:	150.596666666667	**Runoff:**	Very slow
Easting/Lat.:	-34.9333333333334	**Drainage:**	No Data

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Existing vertical exposure, Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Valley flat	**Slope Category:**	Gently inclined
Slope:	1 %	**Aspect:**	125 degrees

Surface Soil Condition (dry): Hardsetting, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Brown Kandosol

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Gn2.84
Great Soil Group: No suitable group

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

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Weak grade of structure, Granular; Very firm consistence; Field pH 5.8 (pH meter); Clear change to -
A3	0.1 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Weak grade of structure, Granular; Very strong consistence; Field pH 6.2 (pH meter); Clear change to -
B2	0.25 - 0.35 m	Brown (10YR4/3-Moist); ; Weak grade of structure, Granular; Very strong consistence; Field pH 5.9 (pH meter);
B3	0.35 - 0.5 m	Brown (10YR4/3-Moist); ; Weak grade of structure, Granular; Very strong consistence; Field pH 5.9 (pH meter);
C	0.5 - 0.7 m	Brown (10YR4/3-Moist); ; Weak grade of structure, Granular; Very strong consistence; Field pH 6.2 (pH meter);
C	0.7 - 0.9 m	Brown (10YR4/3-Moist); ; Massive grade of structure; Very strong consistence;
C	0.9 - 1.1 m	Brown (10YR4/3-Moist); ; Massive grade of structure; Very strong consistence;

Morphological Notes

Observation Notes

HOLOCENE ALLUVIUN(NOWRA UNIT)

Site Notes

NOWRA HILL

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.8A	0.03A	2.4K	1.8	0.3	0.24	14.3B	19J		1.26
0.1 - 0.25	6.2A	0.03A	2.2K	2.4	0.15	0.55	10B	15.3J		3.59
0.25 - 0.35	5.9A	0.04A	1.5K	2.8	0.15	0.81	12.1B	17.3J		4.68
0.35 - 0.5	5.9A	0.06A	1K	2.7	0.16	1	10.9B	15.8J		6.33
0.5 - 0.7	6.2A	0.13A	1.3K	3.8	0.14	1.7	6.3B	13.2J		12.88

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.26D							4D	44	28	24
0.1 - 0.25		0.92D							2D	45	28	25
0.25 - 0.35		0.63D							2D	46	23	28
0.35 - 0.5		0.66D							1D	50	22	27
0.5 - 0.7		0.52D							2D	57	18	23

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.25										
0.25 - 0.35										
0.35 - 0.5										
0.5 - 0.7										

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Laboratory Analyses Completed for this profile

13_C_FE	Extractable Fe(%) - Method recorded as C
13A1_AL	Oxalate-extractable aluminium
13A1_FE	Oxalate-extractable iron
13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
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