Project Name: CAN
Project Code: CAN **Site ID:** C2 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: D.C. van Dijk
Date Desc.: 01/81/53
Map Ref.: Sheet No. : 8128 1:100000
Northing/Long.: 146.333333333333
Easting/Lat.: -34.5666666666667
Locality: Cooper County Parish Gogeldrie Portion 12
Elevation: 150 metres
Rainfall: 410
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Plain
Slope: 2 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Very gently sloped
Aspect: 0 degrees

Surface Soil Condition (dry): Trampled, Firm

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Epipedal Grey Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Grey clay

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

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

Tall Strata - Tree, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 7.9 (pH meter); Gradual change to -
A12	0.04 - 0.15 m	; Medium clay; 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.6 (pH meter); Gradual change to -
A13	0.15 - 0.22 m	; Medium clay; 10-20 mm, Angular blocky; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 8.9 (pH meter); Gradual change to -
B1	0.22 - 0.38 m	; Medium clay; 20-50 mm, Angular blocky; Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.2 (pH meter); Gradual change to -
B2	0.38 - 0.61 m	; Heavy clay; 20-50 mm, Angular blocky; Weak grade of structure, 100-200 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.2 (pH meter); Gradual change to -
C1	0.71 - 0.89 m	; Heavy clay; 20-50 mm, Angular blocky; Weak grade of structure, 100-200 mm, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, , Veins; Field pH 8.8 (pH meter); Gradual change to -
D1	1.27 - 1.47 m	; Sandy medium clay; 20-50 mm; Moderately moist; Firm consistence; Field pH 8.2 (pH meter);

Morphological Notes

Observation Notes

WIDGELLI LAND SURFACE PLEISTOCENE OR RECENT: YOOROOBLA CLAY POORLY STRUCTURED PHASE

Site Notes

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WHITTON YANCO

Project Name: CAN
Project Code: CAN **Site ID:** C2 **Observation ID:** 1
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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 - 0.04	7.9A	0.043C								
0.04 - 0.15	8.6A	0.069C								
0.15 - 0.22	8.9A	0.073C								
0.22 - 0.38	9.2A	0.096C								
0.38 - 0.61	9.2A	0.17C								
0.71 - 0.89	8.8A	0.33C								
1.27 - 1.47	8.2A	0.58C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04	0.04A			0.023D	0.162B				8D	27	12	51
0.04 - 0.15	2.2A			0.021D	0.093B							
0.15 - 0.22	3.7A								5D	20	9	59
0.22 - 0.38	3.4A								5D	20	10	60
0.38 - 0.61	3.4A								4D	20	10	60
0.71 - 0.89	2.9A											
1.27 - 1.47	0.35A								3D	24	18	50

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 - 0.04									
0.04 - 0.15									
0.15 - 0.22									
0.22 - 0.38									
0.38 - 0.61									
0.71 - 0.89									
1.27 - 1.47									

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Laboratory Analyses Completed for this profile

19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
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