CAN **Project Name:**

Project Code: CAN Site ID: Observation ID: 1 C1

Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: Date Desc.: D.C. van Dijk Locality: Cooper Counnty Gogeldrite Parish

Elevation: 07/10/53 150 metres

Map Ref.: Sheet No.: 8128 1:100000 Rainfall: 410

Northing/Long.: 146.3333333333333 Runoff: Moderately rapid Easting/Lat.: -34.5666666666667 Drainage: Moderately well drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Slightly porous, Unconsolidated material No Data

(unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: Elem. Type: Flat Relief: No Data

Plain Slope Category: Very gently sloped

<1 % Aspect: No Data Slope:

Surface Soil Condition (dry): Firm, Trampled

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Calcic Subnatric Red Sodosol **Principal Profile Form:** N/A

ASC Confidence: Great Soil Group: Red-brown earth

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated Vegetation: Low Strata - Sod grass, , Sparse. *Species includes - None recorded

Tall Strata - Tree, , Sparse. *Species includes - Eucalytpus largiflorens

Surface Coarse Fragments:

Profile	Morphology	
A1	0 - 0.03 m	Reddish brown (5YR4/4-Moist); ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 6.8 (pH meter); Gradual change to -
A2	0.03 - 0.08 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy; Weak grade of structure, 50-100 mm, Platy; Moist; Weak consistence; Field pH 6.7 (pH meter); Sharp, Wavy change to -
B11	0.08 - 0.15 m	Dark red (2.5YR3/5-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 7.4 (pH meter); Gradual change to -
B12	0.15 - 0.33 m	Yellowish red (5YR3/5-Moist); ; Heavy clay (Heavy); Weak grade of structure, 50-100 mm, Angular blocky; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 8.3 (pH meter); Gradual change to -
B13	0.33 - 0.43 m	Yellowish red (5YR4/5-Moist); ; Heavy clay (Heavy); Weak grade of structure, 50-100 mm, Angular blocky; Moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
B21	0.48 - 0.58 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter); Gradual change to -
C1	0.69 - 0.86 m	Strong brown (7.5YR5/6-Moist); ; Medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 8.5 (pH meter); Gradual change to -
C2	0.97 - 1.09 m	Strong brown (7.5YR5/6-Moist); ; Medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Few (2 - 10 %), Gypseous, , Crystals; Field pH 8.4 (pH meter); Diffuse change to -

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1.27 - 1.52 m

Brown (7.5YR5/4-Moist); , 7.5YR20, 0-2%; Medium clay; Massive grade of structure; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter); Gradual

change to -

; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse D1 1.98 - 2.13 m

fragments; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

WIDGELLI LANDSURFACE WILLBRIGGIE CLAY LOAM

Site Notes

WHITTON YANCO

Project Name: Project Code: Agency Name: CAN

CAN Site ID: C1 CSIRO Division of Soils (NSW) Observation ID: 1

Depth	pH	1:5 EC	Exc	hangeable	Cations	E.	xchangeable	CEC	E	CEC	E:	SP	
Бори.	μ	(Mg	K	Na	Acidity	020	_	.020	_		
m		dS/m				Cmol (+)/	kg				%	•	
0 - 0.03	6.8A	0.022C	4.9K	3.5	1.1	0.62	5.5E		1	15.6B			
0.03 - 0.08	6.7A	0.022C	4.9K 4.6K	3.5	0.69	0.62	5.3E 5.3E			13.0B 14.9B			
0.08 - 0.15	7.4A	0.036C	8.8K	9.8	0.83	2.8	4.9E			27.1B			
0.15 - 0.33	8.3A	0.048C	11.6K	13.6	0.8	4.3				30.3B			
0.33 - 0.43	8.9A	0.093C											
0.48 - 0.58	9A	0.21C											
0.69 - 0.86	8.5A	0.29C											
0.97 - 1.09	8.4A	0.47C											
1.27 - 1.52	8.8A	0.32C											
1.98 - 2.13	8.6A	0.19C											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk			Size A	-		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt C	lay	
""	/0	/0	ilig/kg	/0	/0	/0	Wig/iii3			/0			
0 - 0.03				0.022	0.14	15B			14D	44	18	22	
0.03 - 0.08				0.019	0.10)5B			13D	46	20	19	
0.08 - 0.15									8D	29	11	50	
0.15 - 0.33	<0.01								6D	22	12	58	
0.33 - 0.43	0.11A								6D	22	10	58	
0.48 - 0.58	2.1A												
0.69 - 0.86	0.11A								9D	23	15	51	
0.97 - 1.09 1.27 - 1.52	2.2A 2.2A								7D	19	13	55	
1.98 - 2.13	0.02A								1D	14	38	42	
1.00 2.10	0.02	•							,,,	17	00	72	
Depth	COLE		Grav	imetric/Vo	lumetric V	Vater Conte	ents		K sat	: K	(unsat		
•	Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar m												
m		Sal.	0.05 Dai				5 Bar 15	Bar	mm/h		mm/h		

0 - 0.03 0.03 - 0.08 0.08 - 0.15 0.15 - 0.33 0.33 - 0.43

0.48 - 0.58 0.69 - 0.86 0.97 - 1.09 1.27 - 1.52 1.98 - 2.13

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Laboratory Analyses Completed for this profile

15_NR_CAExch. basic cations (Ca++) - meq per 100g of soil - Not recorded15_NR_KExch. basic cations (K++) - meq per 100g of soil - Not recorded15_NR_MGExch. basic cations (Mg++) - meq per 100g of soil - Not recorded15_NR_NAExch. basic cations (Na++) - meq per 100g of soil - Not recorded

15G1_H Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

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
P10_PB_C
P10_PB_CS
P10_PB_CS
P10_PB_FS
P10_PB_FS
P10_PB_Z
Total nitrogen (%) - Not recorded
P(%) - By boiling HCl
Plummet balance
Plummet balance
Plummet balance
Plummet balance
Silt (%) - Plummet balance