

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP114      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	C.L. Watson	<b>Locality:</b>	.5KM up Kanimbla Homestead Road:~5KM from Gurley on Moree/Narrabri road
<b>Date Desc.:</b>	30/08/78	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 8838 1:100000	<b>Rainfall:</b>	600
<b>Northing/Long.:</b>	149.816666666667	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-29.766666666667	<b>Drainage:</b>	No Data

**Geology**

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

**Land Form**

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

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	Endocalcareous-Endohypersodic Self-Mulching Grey Vertosol	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	Ug5.24

**ASC Confidence:**

Analytical data are incomplete but reasonable confidence.

**Great Soil Group:**

Grey clay

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:** Low Strata - Sod grass, , Closed or dense. \*Species includes - Triticum aestivum

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Non-plastic; Non-sticky; Field pH 7.4 (pH meter);
0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Field pH 7.7 (pH meter);
0.2 - 0.3 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Field pH 8.1 (pH meter);
0.3 - 0.4 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Field pH 8.2 (pH meter);
0.4 - 0.5 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Field pH 8.3 (pH meter);
0.5 - 0.6 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Field pH 8.5 (pH meter);
0.6 - 0.7 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.7 - 0.8 m	Grey (10YR5/1-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.8 - 0.9 m	Grey (10YR5/1-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.9 - 1 m	Grey (10YR5/1-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.9 (pH meter);

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1 - 1.1 m	Grey (10YR5/1-Moist); ; 10YR52, 20-50% ; ; 20-50% ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.8 (pH meter);
1.1 - 1.2 m	Grey (10YR5/1-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.7 (pH meter);
1.2 - 1.3 m	Grey (10YR5/1-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.8 (pH meter);
1.3 - 1.4 m	Grey (10YR5/1-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.9 (pH meter);
1.4 - 1.5 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.9 (pH meter);
1.5 - 1.6 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.9 (pH meter);
1.6 - 1.7 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 9 (pH meter);
1.7 - 1.8 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 9 (pH meter);
1.8 - 1.9 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.9 (pH meter);
1.9 - 2 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; 5-10 mm, Angular blocky; Very weak consistence; Slightly plastic; Non-sticky; Few (2 - 10 %), Calcareous, , ; Field pH 8.9 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

GURLEY

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol	(+)/kg			%
0 - 0.1	7.4A	0.06A	10.5K	8.8	0.57	1.1	5.9B	27J		4.07
0.1 - 0.2	7.7A	0.05A								
0.2 - 0.3	8.1A	0.05A								
0.3 - 0.4	8.2A	0.1A								
0.4 - 0.5	8.3A	0.18A								
0.5 - 0.6	8.5A	0.27A								
0.6 - 0.7	8.8A	0.36A								
0.7 - 0.8	8.8A	0.38A								
0.8 - 0.9	8.8A	0.36A								
0.9 - 1	8.9A	0.38A								
1 - 1.1	8.8A	0.36A								
1.1 - 1.2	8.7A	0.36A								
1.2 - 1.3	8.8A	0.4A								
1.3 - 1.4	8.9A	0.43A								
1.4 - 1.5	8.9A	0.41A								
1.5 - 1.6	8.9A	0.43A								
1.6 - 1.7	9A	0.42A								
1.7 - 1.8	9A	0.4A								
1.8 - 1.9	8.9A	0.41A								
1.9 - 2	8.9A	0.43A								

[illegible]

Depth m	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	mm/h	mm/h
0 - 0.1								0.14B		

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0.1 - 0.2  
0.2 - 0.3  
0.3 - 0.4  
0.4 - 0.5  
0.5 - 0.6  
0.6 - 0.7  
0.7 - 0.8  
0.8 - 0.9  
0.9 - 1  
1 - 1.1  
1.1 - 1.2  
1.2 - 1.3  
1.3 - 1.4  
1.4 - 1.5  
1.5 - 1.6  
1.6 - 1.7  
1.7 - 1.8  
1.8 - 1.9  
1.9 - 2

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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
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
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate