

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** CP120      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	C.L. Watson	<b>Locality:</b>	College Green 5KM from last Walgett turn off:Cryon Road:
<b>Date Desc.:</b>	03/09/78	<b>Elevation:</b>	1 metres
<b>Map Ref.:</b>	Sheet No. : 8538    1:100000	<b>Rainfall:</b>	480
<b>Northing/Long.:</b>	148.25	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-29.9666666666667	<b>Drainage:</b>	Imperfectly drained

**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>	Level plain <9m <1%	<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>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Episodic-Epicalcareous Self-Mulching Grey Vertosol		<b>Principal Profile Form:</b>	Ug5.24
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Cultivation. Rainfed

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

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Strong grade of structure, <2 mm, Granular; Very weak consistence; Moderately plastic; Moderately sticky;
0.03 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 8.5 (pH meter);
0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Field pH 8.7 (pH meter);
0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.3 - 0.4 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH meter);
0.4 - 0.5 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
0.5 - 0.6 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.6 - 0.7 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.7 - 0.8 m	Dark greyish brown (10YR4/2-Moist); , 10YR52, 20-50% ; , 20-50% ; Heavy clay; Massive grade of structure; Very weak consistence; Moderately plastic; Moderately sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.7 (pH meter);

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0.8 - 0.9 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; Moderately plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.6 (pH meter);
0.9 - 1 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.6 (pH meter);
1 - 1.1 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.6 (pH meter);
1.1 - 1.2 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.6 (pH meter);
1.2 - 1.3 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.7 (pH meter);
1.3 - 1.4 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Very weak consistence; Slightly plastic; Slightly sticky; Common (10 - 20 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.9 (pH meter);
1.4 - 1.5 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 100mm2) Fine (1-2mm) macropores, Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8 (pH meter);
1.5 - 1.6 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Weak consistence; Many (20 - 50 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7.9 (pH meter);
1.6 - 1.7 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Weak consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.7 - 1.8 m	Brown (10YR5/3-Moist); ; Heavy clay; Massive grade of structure; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Weak consistence; Many (20 - 50 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.4 (pH meter);
1.8 - 1.9 m	Brown (10YR5/3-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Few (<1 per 0.01m2) Medium (2-5mm) macropores, Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);

#### **Morphological Notes**

#### **Observation Notes**

#### **Site Notes**

WALGETT

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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	mm/h	mm/h
m		g/g - m3/m3								
0 - 0.03								0.21B		

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0.03 - 0.1  
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

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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
19A1	Carbonates - rapid titration
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