

Project Name: CAN
Project Code: CAN **Site ID:** CP112 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	C.L. Watson	Locality:	Bald Hill Road ~37KM from Narrabri
Date Desc.:	29/08/78	Elevation:	225 metres
Map Ref.:	Sheet No. : 8837 1:100000	Rainfall:	650
Northing/Long.:	149.616666666667	Runoff:	Very slow
Easting/Lat.:	-30.133333333333	Drainage:	Imperfectly drained

Geology

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

Land Form

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

Surface Soil Condition (dry): Recently cultivated, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Epihypersodic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.16
ASC Confidence:	Great Soil Group:	Black earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; 2-5 mm, Granular; Very weak consistence; Slightly plastic; Field pH 7.9 (pH meter);
0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 8.3 (pH meter);
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 8.7 (pH meter);
0.3 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Field pH 8.8 (pH meter);
0.4 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 9 (pH meter);
0.5 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.9 (pH meter);
0.6 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.7 - 0.8 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.8 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.8 (pH meter);
0.9 - 1 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; , Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.1 (pH meter);

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1 - 1.1 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
1.1 - 1.2 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.2 - 1.3 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.3 - 1.4 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1.4 - 1.5 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
1.5 - 1.6 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
1.6 - 1.7 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.7 - 1.8 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.8 - 1.9 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
1.9 - 2 m	Brown (7.5YR4/2-Moist); , 10YR32; Heavy clay; 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

SLICKENSIDES >10CM

Site Notes

NARRABRI

Observation ID: 1

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 - m ³ /m ³							mm/h	mm/h
0 - 0.1								0.25B		

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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
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