Project Name: CAN

Project Code: CAN Site ID: CP183 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

**Site Information** 

Desc. By: D. McGarry Locality: Kangaloon just west of Wee Waa turn off

Narrabri/Wee Waa Road

 Date Desc.:
 20/11/79
 Elevation:
 205 metres

 Map Ref.:
 Sheet No.: 8737
 1:100000
 Rainfall:
 640

 Northing/Long.:
 149.5147222222222
 Runoff:
 Very slow

Easting/Lat.: -30.1991666666667 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%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Cracking, Self-mulching

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Self-Mulching Black VertosolPrincipal Profile Form:Ug5.14

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Forb, 1.01-3m, Closed or dense. \*Species includes - None Recorded

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, , Quartz

**Profile Morphology** 

0 - 0.1 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Light medium clay; Strong grade of structure, 2-5 mm, Granular; Medium, (5 - 10) mm crack; Loose consistence; 10-20%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Field pH 8 (pH meter); Clear,

Smooth change to -

0.1 - 0.2 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); Medium clay; 20-50

mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2%), Calcareous,, Concretions; Field

pH 8 (pH meter);

0.2 - 0.3 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Coarse, (10 - 20) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Concretions; Field

pH 8.4 (pH meter);

0.3 - 0.4 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Medium, (5 - 10) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Concretions; Field

pH 8.6 (pH meter);

0.4 - 0.5 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Very few (0 - 2%), Calcareous, Concretions; Field pH 8.7

(pH meter):

0.5 - 0.6 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Concretions; Field pH 8.8

(pH meter);

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0.6 - 0.7 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9

(pH meter);

0.7 - 0.8 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH

meter);

0.8 - 0.9 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Fine, (0 - 5) mm crack, Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.1

(pH meter);

0.9 - 1 m Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; 20-50

mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Concretions; Field pH

9.1 (pH meter);

## **Morphological Notes**

## **Observation Notes**

LAND-PLANED:STRUCTURE >10CM PARALLELEPIPEDAL:SEDIMENTS OF BASALTIC (MAJOR) AND SEDIMENTARY ORIGIN

## **Site Notes**

WEE WAA

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Depth	рН	1:5 EC		nangeable			Exchangeable	CEC	ECE	C E	ESP
m		dS/m	Ca N	Иg	K	Na Cmol (+	Acidity -)/kg			,	%
0 - 0.1	8A	0.27A	19.9K	11.2	0.87	1.1	6.8B	39.9J		2	2.76
0.1 - 0.2	8A	0.17A	18.9K	9.4	0.92	1.1	4.9B	35.2J		3	3.13
0.2 - 0.3	8.4A	0.22A	18.4K	11.9	0.62	1.7	4.8B	37.4J		4	1.55
0.3 - 0.4	8.6A	0.25A	15.4K	13.6	0.45	2.4	5.6B	37.5J		6	6.40
0.4 - 0.5	8.7A	0.29A									
0.5 - 0.6	8.8A	0.32A									
0.6 - 0.7	8.9A	0.34A	12.2K	14.1	0.53	4.9	5.7B	37.4J		1	3.10
0.7 - 0.8	9A	0.35A									
0.8 - 0.9	9.1A	0.36A									
0.9 - 1	9.1A	0.36A	11.3K	12.7	0.59	5.5	6.2B	36.3J		1:	5.15
Depth	CaCO3	Organic	Avail. P	Total P	Total N	Tota K		Partic GV C		Analysis	
m	%	C %	mg/kg	%	%	%	Density Mg/m3	GV C	о го %	Silt	Ciay
0 - 0.1	0.29A	2.4D	36.3A		0.05	54B		2	21D 1	10 14	49
0.1 - 0.2		1.25D	31.9A		0.08	2B					
0.2 - 0.3		0.91D	16.4A								
0.3 - 0.4	1.3A	0.74D	13.8A					2	20D 1	10 15	53
0.4 - 0.5			16.8A								
0.5 - 0.6			17.8A								
0.6 - 0.7		0.43D	16.6A								
0.7 - 0.8			16.2A								
0.8 - 0.9			18.1A								
0.9 - 1	2.57A	0.23D	18.3A					1	17D 1	11 18	50
Depth	COLE	COLE Gravimetric/Volumetric Water Contents							K sat	K unsat	t
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15 E		mm/h	mm/h	

0 - 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

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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\_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

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

7\_NR Total nitrogen (%) - Not recorded

9B\_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

P10\_PB\_C
P10\_PB\_CS
Clay (%) - Plummet balance
Coarse sand (%) - Plummet balance
P10\_PB\_FS
P10\_PB\_Z
Clay (%) - Plummet balance
Fine sand (%) - Plummet balance
Silt (%) - Plummet balance