Project Name: CAN
Project Code: CAN **Site ID:** CP121 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	C.L. Watson	**Locality:**	500M north east of Gross`s Bridge Wimmera River:road verge
Date Desc.:	10/10/78	**Elevation:**	150 metres
Map Ref.:	Sheet No. : 7324 1:100000	**Rainfall:**	450
Northing/Long.:	142.333333333333	**Runoff:**	Slow
Easting/Lat.:	-36.7166666666667	**Drainage:**	Poorly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

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:	0 %	**Aspect:**	320 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Epicalcareous Epipedal Grey Vertosol

ASC Confidence:
No analytical data are available but confidence is fair.

Mapping Unit: N/A
Principal Profile Form: Ug5.5
Great Soil Group: N/A

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Moderate grade of structure, Angular blocky; Massive grade of structure; Strong consistence; Sharp change to -
0.03 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Field pH 6.9 (pH meter);
0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Angular blocky; Firm consistence; Field pH 7.4 (pH meter); Gradual change to -
0.2 - 0.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.7 (pH meter);
0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.9 (pH meter);
0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.8 (pH meter);
0.5 - 0.6 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.8 (pH meter);
0.6 - 0.7 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.1 (pH meter);
0.7 - 0.8 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
0.8 - 0.9 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);

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0.9 - 1 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);
1 - 1.1 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
1.1 - 1.2 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8 (pH meter);
1.2 - 1.3 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
1.3 - 1.4 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.4 - 1.5 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52, 0-2% ; , 0-2% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
1.5 - 1.6 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52, 0-2% ; , 0-2% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
1.6 - 1.7 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52, 0-2% ; , 0-2% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
1.7 - 1.8 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52, 0-2% ; , 0-2% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
1.8 - 1.9 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52, 0-2% ; , 0-2% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very weak consistence; Moderately plastic; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

HORSHAM

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.03	6.9A	0.06A	5K	6.9	0.68	1	8B	21.6J		4.63
0.03 - 0.1	7.4A	0.12A								
0.1 - 0.2	7.7A	0.19A								
0.2 - 0.3	7.9A	0.39A								
0.3 - 0.4	7.8A	0.54A								
0.4 - 0.5	7.8A	0.76A								
0.5 - 0.6	8.1A	1A								
0.6 - 0.7	8.1A	1.2A								
0.7 - 0.8	8.4A	1.3A								
0.8 - 0.9	8.2A	1.3A								
0.9 - 1	8A	1.2A								
1 - 1.1	8.1A	1.4A								
1.1 - 1.2	8A	1.3A								
1.2 - 1.3	8.1A	1.2A								
1.3 - 1.4	8.4A	1.3A								
1.4 - 1.5	8.5A	1.3A								
1.5 - 1.6	8.5A	1.3A								
1.6 - 1.7	8.5A	1.2A								
1.7 - 1.8	8.5A	1.2A								
1.8 - 1.9	8.6A	1.3A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03		1.06D							4D	45	16	33
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												

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 - m3/m3							mm/h	mm/h
0 - 0.03								0.13B		

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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
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