

Project Name: CAN
Project Code: CAN **Site ID:** CP228 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	Locality:	South of Whitton Common past tip and wooded swamp on s. side of road
Date Desc.:	20/01/83	Elevation:	145 metres
Map Ref.:	Sheet No. : 8128 1:100000	Rainfall:	430
Northing/Long.:	146.183333333333	Runoff:	Very slow
Easting/Lat.:	-34.533333333333	Drainage:	Poorly drained

Geology

Exposure Type:	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): Other, Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Vertic Calcic Red Chromosol	Principal Profile Form:	Dr2.33
ASC Confidence:	Great Soil Group:	Red-brown earth
All necessary analytical data are available.		

Site Disturbance:

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Reddish brown (5YR5/3-Moist); Brown (7.5YR5/4-Dry); ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Fine, (0 - 5) mm crack; Weak consistence; Field pH 5.5 (pH meter); Diffuse change to -
0.1 - 0.18 m	Reddish brown (5YR5/3-Moist); Brown (7.5YR5/4-Dry); , 2-10% ; , 2-10% ; Clay loam, fine sandy; Weak grade of structure, 10-20 mm, Platy; Massive grade of structure; Fine, (0 - 5) mm crack; Weak consistence; Field pH 6.3 (pH meter); Sharp change to -
0.18 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, Prismatic; Fine, (0 - 5) mm crack; Strong consistence; Field pH 7.1 (pH meter); Gradual change to -
0.3 - 0.4 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, Prismatic; Fine, (0 - 5) mm crack; Strong consistence; Field pH 7.8 (pH meter); Gradual change to -
0.4 - 0.5 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, Prismatic; Fine, (0 - 5) mm crack; Strong consistence; Field pH 8.2 (pH meter); Gradual change to -
0.5 - 0.6 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; 20-50 mm, Angular blocky; Moderate grade of structure, Prismatic; Strong consistence; Field pH 8.6 (pH meter); Gradual change to -
0.6 - 0.7 m	Yellowish red (5YR4/6-Moist); , 5YR48, 20-50% ; , 20-50% ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.8 (pH meter); Gradual change to -
0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); , 5YR48, 20-50% ; , 20-50% ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter); Gradual change to -
0.8 - 0.9 m	Yellowish brown (10YR5/4-Moist); , 5YR46, 2-10% ; , 2-10% ; Medium heavy clay; Massive grade of structure; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.1 (pH meter); Gradual change to -

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0.9 - 1 m Yellowish brown (10YR5/4-Moist); , 5YR4/6, 2-10% ; , 2-10% ; Medium heavy clay; Massive grade of structure; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9.2 (pH meter); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

ALLUVIUM OR PARNA:CF WITH PROFILE CP9

Site Notes

WHITTON

Observation ID: 1

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	5.5A	0.04A	1.4K	0.87	0.68	0.2	10B	13.2J	1.52
0.1 - 0.18	6.3A	0.03A	2.2K	1.6	0.41	0.36	6.1B	10.7J	3.36
0.18 - 0.3	7.1A	0.04A	9.2K	8.9	0.94	1.3	10.3B	30.6J	4.25
0.3 - 0.4	7.8A	0.05A	9.9K	10.5	0.87	1.8	8.2B	31.3J	5.75
0.4 - 0.5	8.2A	0.06A							
0.5 - 0.6	8.6A	0.07A							
0.6 - 0.7	8.8A	0.09A	9.2K	11.5	0.83	2.8	2.8B	27.1J	10.33
0.7 - 0.8	9A	0.18A							
0.8 - 0.9	9.1A	0.19A							
0.9 - 1	9.2A	0.25A							

[illegible][illegible]

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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