Project Name: CAN
Project Code: CAN **Site ID:** C541 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: J. Loveday
Date Desc.: 01/12/61
Map Ref.: Sheet No. : 8128 1:100000
Northing/Long.: 146.087222222222
Easting/Lat.: -34.6663888888889
Locality: Tubbo site 14A-VM
Elevation: 150 metres
Rainfall: 410
Runoff: Very slow
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: <1 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Hypocalcic Red Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr1.33
Great Soil Group: Red-brown earth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation: Low Strata - Forb, <0.25m, Closed or dense. *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.13 m	Brown (7.5YR5/4-Dry); ; Fine sandy loam (Heavy); Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 5.2 (pH meter);
0.13 - 0.2 m	Pinkish grey (7.5YR6/2-Dry); ; Sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.2 - 0.38 m	Dark reddish brown (5YR3/4-Dry); , 5YR33, 20-50% ; , 20-50% ; Light medium clay; 10-20 mm, Angular blocky; 100-200 mm, Prismatic; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 7.7 (pH meter); Wavy change to -
0.38 - 0.45 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.45 - 0.6 m	Brown (7.5YR4/4-Moist); ; Light clay; Massive grade of structure; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions;
0.6 - 0.91 m	Brown (7.5YR4/4-Moist); , 2.5Y72, 10-20% ; , 5YR46, 10-20% ; Light clay; Massive grade of structure; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions;
0.91 - 1.27 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR44; Light medium clay; 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

SHINY PED FACES >60CM

Site Notes

COLEAMBALLY

Project Name: CAN
Project Code: CAN **Site ID:** C541 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.025	5.3A	0.06A								
0.025 - 0.1	5.2A	0.03A	2.6K	1.2	0.34	0.05	4.6E		8.8B	
0.1 - 0.2										
0.2 - 0.3	7.7A	0.09A	10.4K	10	0.84	1.3	3.6E		26.1B	

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 - 0.025							1.51		15D	54	16	13
0.025 - 0.1		0.45F					1.59		16D	54	15	12
0.1 - 0.2							1.84					
0.2 - 0.3							1.57		7D	27	7	56

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 - 0.025			12.5H				4.8D		
0.025 - 0.1			12.8H				4.6D		
0.1 - 0.2			10.1H				4.9D		
0.2 - 0.3			22.5H				17.4D		

Project Name: **CAN**
Project Code: **CAN** **Site ID:** **C541** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (NSW)**

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - 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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
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
6_DC	Organic carbon (%) - Dry combustion
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
P3A1_CLOD	Bulk density g/cm3 - Clods at 0.1 Bar moisture content (McIntyre & Stirk, 1954, Aust. J. Agric. Res. 5:291-6)
P3B1GV_15	15 BAR Moisture g/g - Gravimetric of ground sample (<2mm) using pressure plate
P3B5GV_01	0.1 BAR Moisture g/g - Gravimetric of soil clods (CSIRO Div. Of Soils TM 25/66)