Project Name: CAN
Project Code: CAN **Site ID:** C565 **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.: 146.075277777778
Easting/Lat.: -34.7141666666667
Locality: Tubbo site 20A-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): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Calcic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Db2.33
Great Soil Group: Solodized solonetz

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 - 0.15 m	Greyish brown (10YR5/2-Dry); ; Loamy sand; Massive grade of structure; Firm consistence; Field pH 5.8 (pH meter); Wavy change to -
0.15 - 0.2 m	Light brownish grey (10YR6/2-Dry); , 10YR72; Loamy sand; Massive grade of structure; Very firm consistence;
0.2 - 0.3 m	Dark brown (10YR3/3-Dry); ; Medium clay; 50-100 mm, Angular blocky; 200-500 mm, Prismatic; Very strong consistence; Field pH 7.6 (pH meter);
0.3 - 0.45 m	Dark brown (10YR3/3-Dry); , 7.5YR44; Medium clay; 50-100 mm, Angular blocky; 200-500 mm, Prismatic;
0.45 - 0.76 m	Brown (7.5YR4/4-Dry); , 10YR33; , 10YR54; Sandy medium clay; 50-100 mm, Angular blocky; 200-500 mm, Prismatic; Very few (0 - 2 %), Calcareous, , ;
0.76 - 1.22 m	Greyish brown (2.5Y5/2-Moist); , 10YR54; Sandy medium clay; , Angular blocky; Few (2 - 10 %), Calcareous, , Concretions;
1.22 - 1.32 m	; Sandy medium clay; , Angular blocky; Few (2 - 10 %), Calcareous, , Concretions; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals;

Morphological Notes

Observation Notes

TOP OF PRISMS SL. DOMED & UNDULATING WITH BLEACHED SANDY CAPPINGS 20-30CM & AGGREGATES WITH BL. STAINED SURFACES:

Site Notes

COLEAMBALLY

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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	5.7A	0.09A								
0.025 - 0.1	5.8A	0.03A	4K	0.92	0.49		4E		9.4B	
0.1 - 0.2										
0.2 - 0.3	7.6A	0.06A	10.8K	6.5	1.3	1	2.2E		21.8B	

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							1.49		50D	28	16	4
0.025 - 0.1		0.76F					1.61		51D	28	17	4
0.1 - 0.2							1.81					
0.2 - 0.3							1.60		32D	16	2	46

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			11.4H				4.6D		
0.025 - 0.1			11H				4.3D		
0.1 - 0.2									
0.2 - 0.3			20.6H				14.9D		

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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_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)
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
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)