Project Name: CAN
Project Code: CAN **Site ID:** C561 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tubbo site 19A-VM
Date Desc.:	01/12/61	**Elevation:**	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	**Rainfall:**	410
Northing/Long.:	146.033333333333	**Runoff:**	Very slow
Easting/Lat.:	-34.7	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**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:	No Data	**Slope Category:**	Level
Slope:	<1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Firm, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Calcic Red Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dr1.13
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 - 0.1 m	Greyish brown (10YR5/2-Dry); , 10YR53, 20-50% ; , 20-50% ; Sandy clay loam; Massive grade of structure; Firm consistence; Field pH 6.1 (pH meter);
0.1 - 0.3 m	Reddish brown (5YR4/3-Dry); , 5YR33, 20-50% ; , 20-50% ; Medium heavy clay; 10-20 mm, Angular blocky; Strong grade of structure, 200-500 mm, Prismatic; Firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);
0.3 - 0.76 m	Yellowish red (5YR4/6-Dry); ; Medium heavy clay; 20-50 mm, Angular blocky; Firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals;
0.76 - 1.07 m	Brown (10YR5/3-Moist); , 2.5Y52; Medium heavy clay; 20-50 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals;
1.07 - 1.27 m	Olive grey (5Y5/2-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Firm consistence;

Morphological Notes

Observation Notes

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	6.1A	0.12A	5.7K	2.3	0.75	0.36	4.2E		13.3B	
0.025 - 0.1	6.1A	0.09A	5.7K	3.2	0.84	0.44	4.2E		14.4B	
0.1 - 0.2										
0.2 - 0.3	8.9A	0.36A	12K	10.7	1.8	3.1			27.6B	

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		0.6F					1.62		29D	37	16	18
0.025 - 0.1		0.49F					1.77		28D	36	14	13
0.1 - 0.2							1.42					
0.2 - 0.3	0.38A						1.41		16D	16	6	61

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				11.3H				5.4D		
0.025 - 0.1				12.8H				5.9D		
0.1 - 0.2										
0.2 - 0.3				31.3H				22D		

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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)
19A1	Carbonates - rapid titration
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)