Project Name: CAN
Project Code: CAN **Site ID:** C553 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tubbo site 17A-VM
Date Desc.:	01/12/61	**Elevation:**	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	**Rainfall:**	410
Northing/Long.:	146.034444444444	**Runoff:**	Very slow
Easting/Lat.:	-34.6666666666667	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	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:**	0 degrees

Surface Soil Condition (dry): Surface crust, Firm

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Hypocalcic 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	Yellowish brown (10YR5/4-Dry); ; Loam; , Subangular blocky; Massive grade of structure; Firm consistence; Field pH 6.2 (pH meter);
0.1 - 0.2 m	Dark reddish brown (5YR3/4-Dry); ; Medium heavy clay; , Angular blocky; Massive grade of structure; Medium, (5 - 10) mm crack; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions;
0.2 - 0.6 m	Yellowish red (5YR4/5-Dry); ; Medium heavy clay; , Angular blocky; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.1 (pH meter);
0.6 - 1.07 m	Brown (7.5YR4/4-Moist); ; Medium heavy clay; , Angular blocky; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions;
1.07 - 1.27 m	Brown (7.5YR4/4-Moist); , 5Y62; Medium heavy clay; , Angular blocky; Massive grade of structure; Weak consistence;

Morphological Notes

Observation Notes

BLACK SPECKLING 107-127CM

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	5.9A	0.15A	6K	3.3	0.69	0.28	5.2E		15.5B	
0.025 - 0.1	6.3A	0.06A	5.1K	3.9	0.63	0.22	5.2E		15.1B	
0.1 - 0.2										
0.2 - 0.3	8.1A	0.09A	12.9K	16.2	1.2	2.2	2.3E		34.8B	

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		0.9F					1.53		15D	40	20	26
0.025 - 0.1		0.79F					1.50		14D	41	23	24
0.1 - 0.2							1.40					
0.2 - 0.3	0.01A						1.36		6D	15	7	72

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				16.2H				7.6D		
0.025 - 0.1				15.8H				7.1D		
0.1 - 0.2										
0.2 - 0.3				33H				25.7D		

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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)