Project Name: CAN
Project Code: CAN **Site ID:** C558 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tubbo site 18A-AM
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.:	-34.7666666666667	**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:	Plain	**Slope Category:**	Level
Slope:	<1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Surface crust, Cracking

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:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m	Brown (7.5YR5/4-Dry); ; Clay loam; 20-50 mm, Subangular blocky; Massive grade of structure; Medium, (5 - 10) mm crack; Firm consistence; Field pH 6 (pH meter);
0.1 - 0.25 m	Dark reddish brown (5YR3/4-Dry); ; Medium heavy clay; 20-50 mm, Angular blocky; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.25 - 0.76 m	Dark reddish brown (5YR3/4-Dry); ; Medium heavy clay; 20-50 mm, Angular blocky; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
0.76 - 1.27 m	Brown (7.5YR4/3-Moist); , 7.5YR55, 20-50% ; , 20-50% ; Medium heavy clay; 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals;

Morphological Notes

Observation Notes

BLACK STAINING:OLIVE FREY MOTTLING AND SHINY PED FACES 76-127CM

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	5.6A	0.12A								
0.025 - 0.1	6.1A	0.06A	5K	4.2	0.76	0.35	5.7E		16B	
0.1 - 0.2										
0.2 - 0.3	8.3A	0.18A	14.6K	17.3	1.3	3.6	2E		38.8B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.025									19D	42	20	21
0.025 - 0.1		0.73F							16D	40	19	23
0.1 - 0.2												
0.2 - 0.3	0.01A								7D	16	7	69

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										
0.025 - 0.1										
0.1 - 0.2										
0.2 - 0.3										

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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