

Project Name: CAN
Project Code: CAN **Site ID:** C547 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	Locality:	Tubbo site 15B-VM
Date Desc.:	01/12/61	Elevation:	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	Rainfall:	410
Northing/Long.:	146.087222222222	Runoff:	Very slow
Easting/Lat.:	-34.666388888889	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	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, Hardsetting

Erosion:

Soil Classification

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

Analytical data are incomplete but reasonable confidence.

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 (7.5YR4/4-Dry); ; Fine sandy loam (Heavy); Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 5.7 (pH meter);
0.13 - 0.17 m	Pinkish grey (7.5YR6/2-Dry); ; Sandy loam; 100-200 mm, Prismatic; Fine, (0 - 5) mm crack; Very firm consistence;
0.17 - 0.38 m	Dark reddish brown (5YR3/4-Dry); , 5YR33, 20-50% ; , 20-50% ; Light clay; 10-20 mm, Angular blocky; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 7.6 (pH meter);
0.38 - 0.45 m	Reddish brown (5YR4/4-Moist); ; Light clay; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.45 - 0.6 m	Brown (7.5YR4/4-Moist); ; Silty medium 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% ; Silty medium 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 clay; 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

SHINY PED FACES >60CM

Site Notes

COLEAMBALLY

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.025	5.5A	0.09A								
0.025 - 0.1	5.8A	0.03A	2.8K	1.3	0.38	0.07	3.8E		8.4B	
0.1 - 0.2										
0.2 - 0.3	7.6A	0.09A	10.4K	10.8	0.93	1.6	3.4E		27.1B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.025							1.55		14D	52	21	15
0.025 - 0.1		0.41F					1.68		16D	56	18	13
0.1 - 0.2							1.84					
0.2 - 0.3							1.51		7D	28	9	5

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	mm/h	mm/h
			g/g - m3/m3							
0 - 0.025				13.8H				5.2D		
0.025 - 0.1				12.7H				4.9D		
0.1 - 0.2				10.3H				4.7D		
0.2 - 0.3				27.7H				17.3D		

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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)
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)