

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** C546      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

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

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Porous, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	<1 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):** Surface crust, Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Hypocalcic Red Chromosol		<b>Principal Profile Form:</b>	Dr1.33
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
All necessary analytical data are available.			

**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 - 0.2 m	Pinkish grey (7.5YR6/2-Dry); ; Sandy loam; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.2 - 0.38 m	Dark reddish brown (5YR3/4-Dry); , 5YR33, 20-50% ; , 20-50% ; Light medium clay; 10-20 mm, Angular blocky; 100-200 mm, Prismatic; Fine, (0 - 5) mm crack; Very firm consistence; Field pH 7.5 (pH meter);
0.38 - 0.45 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence;
0.45 - 0.6 m	Brown (7.5YR4/4-Moist); ; Light clay; Massive grade of structure; Very firm consistence;
0.6 - 0.91 m	Brown (7.5YR4/4-Moist); , 2.5Y72, 10-20% ; , 5YR46, 10-20% ; Light 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 medium 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	5.3A	0.06A								
0.025 - 0.1	5.8A	0.03A	3.1K	1.5	0.39	0.03	4.5E		9.5B	
0.1 - 0.2										
0.2 - 0.3	7.5A	0.06A	9.3K	8.9	0.76	1.2	3.7E		23.9B	

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									17D	50	19	14
0.025 - 0.1		0.47F							17D	52	17	12
0.1 - 0.2												
0.2 - 0.3									8D	29	9	50

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			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					
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)
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