Project Name: CAN
Project Code: CAN **Site ID:** C518 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tubbo site 6A-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.:	-34.7	**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:	Plain	**Slope Category:**	Level
Slope:	<1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol

Mapping Unit: N/A
Principal Profile Form: Ug5.24

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Grey clay

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); , 2.5Y52, 20-50% ; , 20-50% ; Medium heavy clay; 2-5 mm, Subangular blocky; Very coarse, (20 - 50) mm crack; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7 (pH meter);
0.1 - 0.91 m	Greyish brown (10YR5/2-Dry); , 2.5Y52, 20-50% ; , 20-50% ; Medium heavy clay; 10-20 mm, Angular blocky; 20-50 mm, Prismatic; Very coarse, (20 - 50) mm crack; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
0.91 - 1.27 m	Greyish brown (10YR5/2-Dry); , 2.5Y52, 20-50% ; , 5Y63, 20-50% ; Medium heavy clay; Medium, (5 - 10) mm crack; Very few (0 - 2 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

POLYGONAL CRACKING PATTERN ON SURFACE

Site Notes

COLEAMBALLY

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.025	5.9A	0.12A								
0.025 - 0.1	7.1A	0.09A	23.5K	10.1	1.8	0.54	4.3E		40.2B	
0.1 - 0.2										
0.2 - 0.3	8.6A	0.18A	26.1K	10.9	0.93	1.1			39B	

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									5D	16	9	67
0.025 - 0.1		0.64F							4D	16	9	72
0.1 - 0.2												
0.2 - 0.3	0.92B								4D	16	8	70

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)
19B1	Carbonates - manometric
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