Project Name: CAN
Project Code: CAN **Site ID:** C407 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Tharbogang roadside
Date Desc.:	09/11/59	**Elevation:**	130 metres
Map Ref.:	Sheet No. : 8029 1:100000	**Rainfall:**	410
Northing/Long.:	145.994444444445	**Runoff:**	Very slow
Easting/Lat.:	-34.2588888888889	**Drainage:**	Well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	225 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Calcic Red Chromosol

ASC Confidence:
No analytical data are available but confidence is fair.

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Red-brown earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Sod grass, , . *Species includes - Danthonia species
Mid Strata - Forb, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Dark reddish brown (5YR3/4-Moist); ; Loam; Weak grade of structure, 10-20 mm, Subangular blocky; Very weak consistence; Field pH 6.7 (pH meter); Diffuse change to -
0.05 - 0.15 m	Yellowish red (5YR4/6-Moist); ; Loam; Weak grade of structure, 20-50 mm, Subangular blocky; Weak consistence; Field pH 5.8 (pH meter); Diffuse change to -
0.15 - 0.3 m	Dark reddish brown (2.5YR3/4-Moist); ; Loam; Massive grade of structure; Very weak consistence; Field pH 4.8 (pH meter);
0.3 - 0.46 m	Dark reddish brown (2.5YR3/4-Moist); ; Loam; Massive grade of structure; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartzite, coarse fragments; Field pH 5.2 (pH meter); Sharp change to -
0.46 - 0.53 m	Reddish brown (5YR5/4-Moist); ; Sandy loam; Massive grade of structure; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartzite, coarse fragments; Field pH 6.8 (pH meter); Sharp change to -
0.53 - 0.61 m	Dark reddish brown (2.5YR3/4-Moist); ; Clay loam (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartzite, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter); Diffuse change to -
0.61 - 0.69 m	Brownish yellow (10YR6/5-Moist); ; Clay loam (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartzite, coarse fragments; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter); Gradual change to -
0.74 - 0.91 m	Yellowish brown (10YR5/4-Moist); ; Clay loam (Heavy); Strong grade of structure, 50-100 mm, Angular blocky; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.4 (pH meter); Diffuse change to -
1.17 - 1.27 m	Yellowish brown (10YR5/4-Moist); , 0-2% , Prominent; , N20, 0-2% , Prominent; Fine sandy loam; Strong grade of structure, 50-100 mm, Angular blocky; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9 (pH meter);

Project Name: **CAN**
Project Code: **CAN** **Site ID:** **C407** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (NSW)**

1.7 - 1.83 m	Reddish brown (5YR4/3-Moist); , 0-2% , Prominent; , N20, 0-2% , Prominent; Fine sandy loam; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
1.83 - m	;

Morphological Notes

Observation Notes

PARNA:WINDBLOWN SAND AND COLLUVIUM:QUARTZITE (30-69CM) IS FERRUGINOUS

Site Notes

RIVERINA

Project Name: CAN
Project Code: CAN **Site ID:** C407 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	6.7A	0.09A	7.9K	2.9	1.2	0.35	5.7E		18.1B	
0.05 - 0.15	5.8A	0.15A	4.6K	2.1	0.93	0.21	6.1E		13.9B	
0.15 - 0.3	4.8A	0.21A	2.7K	1.9	0.61	0.27	8.3E		13.8B	
0.3 - 0.46	5.2A	0.18A	2.6K	2.1	0.41	0.74	6.1E		11.9B	
0.46 - 0.53	6.8A	0.21A	2.5K	1.9	0.28	1.2	2.7E		8.6B	
0.53 - 0.61	8.9A	0.42A	5.7K	7.6	0.87	4.5			18.7B	
0.61 - 0.69	9.1A	0.36A	7.1K	10	1.2	5.5			23.8B	
0.74 - 0.91	9.4A	0.36A								
1.17 - 1.27	9A	0.21A								
1.7 - 1.83	9.1A	0.15A	5.8K	6.8	1.5	0.53			14.6B	
-	8.9A	0.18A								

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 - 0.05		1.75F		0.022D	0.147B				24D	43	13	20
0.05 - 0.15		0.73F		0.017D	0.062B				28D	41	9	21
0.15 - 0.3		0.56F		0.017D	0.049B				28D	42	6	24
0.3 - 0.46									29D	44	8	21
0.46 - 0.53									30D	49	4	18
0.53 - 0.61	0.05A								20D	32	3	44
0.61 - 0.69	0.08A								12D	32	11	44
0.74 - 0.91	4.05A											
1.17 - 1.27	0.69A											
1.7 - 1.83	2.22A								13D	59	18	13
-	0.8A											

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.05										
0.05 - 0.15										
0.15 - 0.3										
0.3 - 0.46										
0.46 - 0.53										
0.53 - 0.61										
0.61 - 0.69										
0.74 - 0.91										
1.17 - 1.27										
1.7 - 1.83										
-										

Project Name: CAN
Project Code: CAN **Site ID:** C407 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

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
2A1	Air-dry moisture content
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
7_NR	Total nitrogen (%) - Not recorded
9A_HCL	Total element - P(%) - By boiling HCl
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