

Project Name: CAN
Project Code: CAN **Site ID:** C618A **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J.R. Sleeman	Locality:	12km east of Jerilderie on Oaklands Road:100m east of road
Date Desc.:	13/07/66	Elevation:	120 metres
Map Ref.:	Sheet No. : 8027 1:100000	Rainfall:	410
Northing/Long.:	145.85	Runoff:	Very slow
Easting/Lat.:	-35.4166666666667	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:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Ug5.43
		Great Soil Group:	Brown clay

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Sod grass, , Closed or dense. *Species includes - None recorded
Tall Strata - Tree, , Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); Greyish brown (10YR5/2-Dry); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Field pH 6.4 (pH meter); Abrupt change to -
0.08 - 0.3 m	Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 7 (pH meter);
0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Medium (2 -6 mm), Soft segregations; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.3 (pH meter); Clear change to -
0.4 - 0.6 m	Dark grey (10YR4/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Calcareous, , Soft segregations; Field pH 7.7 (pH meter);
0.6 - 0.7 m	Dark grey (10YR4/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.7 (pH meter); Gradual change to -
0.7 - 0.9 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);
0.9 - 1.2 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Very strong consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Gravel, coarse fragments; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);

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1.2 - 1.3 m	Dark greyish brown (10YR4/2-Moist); Brown (10YR5/3-Dry); ; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Diffuse change to -
1.3 - 1.5 m	Brown (10YR5/3-Moist); , 10YR42; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
1.5 - 1.65 m	Brown (10YR5/3-Moist); , 10YR42, 2-10% ; , 2-10% ; Heavy clay; Weak grade of structure, 100-200 mm, Angular blocky; Very strong consistence; , Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

QUATERNARY ALLUVIUM:SHELP MICRO. SAMPLED AT SITE C618:

Site Notes

JERILDIE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.02	8A	0.18A	30.2K	10.7	2.3	0.16			
0.02 - 0.1	8.3A	0.15A	40.6K	12.3	1.6	0.25			
0.1 - 0.2	8.5A	0.18A	40.1K	14.9	0.98	0.61			
0.2 - 0.3	8.7A	0.21A	39.8K	17.2	0.89	1.2			
0.3 - 0.6	9A	0.33A	37.6K	19.2	0.95	3			
0.6 - 0.9	9.1A	0.51A	27K	18.5	1.1	2.7			
0.9 - 1.2	9.2A	0.36A	21.1K	12.3	0.98	3.4			
1.2 - 1.3	9.2A	0.48A	21.3K	12.8	0.97	2			
1.3 - 1.5	9.1A	0.6A	25.9K	14.2	1	2.2			
1.5 - 1.65	9.1A	0.804A	18.8K	13.3	1.1	2.2			

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
								GV	CS		FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	1.3A	1.61F	6A		0.172B		1.20		9D	27	10	44
0.02 - 0.1	3.2A	0.84F	2A		0.091B				7D	20	6	55
0.1 - 0.2	3.9A	0.57F	1A		0.065B		1.20		6D	19	4	62
0.2 - 0.3	3.8A	0.48F	1A		0.054B		1.30		6D	19	4	63
0.3 - 0.6	4.7A	0.37F	1A		0.047B		1.40		5D	19	5	63
0.6 - 0.9	5.2A	0.29F	1A		0.034B				4D	19	8	65
0.9 - 1.2	3.2A	0.22F	1A		0.026B				9D	27	9	51
1.2 - 1.3	3.5A	0.18F	1A		0.023B				7D	26	8	54
1.3 - 1.5	3.1A	0.16F	1A		0.024B				4D	26	10	56
1.5 - 1.65	2.7A	0.12F	2A		0.022B				4D	25	9	57

[illegible]

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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
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m ³ /m ³ - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate