Project Name: CAN
Project Code: CAN **Site ID:** CP168 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: D. McGarry
Locality: Garoka ~10KM west of Merah north:paddock 8 west end
Date Desc.: 20/06/80
Elevation: 200 metres
Map Ref.: Sheet No. : 8737 1:100000
Rainfall: 640
Northing/Long.: 149.2
Runoff: Very slow
Easting/Lat.: -30.15
Drainage: Imperfectly drained

Geology

ExposureType: No Data
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: 0 %
Aspect: No Data

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

Erosion:

Soil Classification

Australian Soil Classification:
Episodic-Epicalcareous Self-Mulching Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.15
Great Soil Group: Grey clay

Site Disturbance:
Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Forb, 1.01-3m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments:
No surface coarse fragments

Profile Morphology

0 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Coarse, (10 - 20) mm crack; Very weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.2 (pH meter); Clear, Smooth change to -
0.2 - 0.3 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.6 (pH meter);
0.3 - 0.4 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.8 (pH meter);
0.4 - 0.5 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Medium, (5 - 10) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.9 (pH meter);
0.5 - 0.6 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter);
0.6 - 0.7 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter);
0.7 - 0.8 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter);
0.8 - 0.9 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 9 (pH meter);
0.9 - 1 m	Dark grey (10YR4/1-Moist); , 10YR42; Medium heavy clay; 20-50 mm, Angular blocky; Fine, (0 - 5) mm crack; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; Field pH 8.9 (pH meter);

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Morphological Notes

Observation Notes

LAND PLANED:SEDIMENTS OF BASALTIC (MAJOR) AND SEDIMENTARY ORIGIN

Site Notes

MERAH NORTH

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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 - 0.1	8.1A	0.24A	25.7K	15.5	1.2	3.5	9.5B	55.4J		6.32
0.1 - 0.2	8.3A	0.15A	25.9K	15.3	1.2	3.9	10B	56.3J		6.93
0.2 - 0.3	8.6A	0.16A	26.1K	16.6	1	4.9	7.4B	56J		8.75
0.3 - 0.4	8.8A	0.21A	24K	15.4	1.1	6.2	9B	55.7J		11.13
0.4 - 0.5	8.9A	0.23A								
0.5 - 0.6	9A	0.24A								
0.6 - 0.7	9A	0.27A	20.6K	15.5	1.3	8.7	10.4B	56.5J		15.40
0.7 - 0.8	9A	0.29A								
0.8 - 0.9	9A	0.31A								

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 - 0.1	0.16A	1.67D	30.2A		0.068B				3D	9	18	64
0.1 - 0.2		0.93D	25.5A		0.064B							
0.2 - 0.3		0.62D	22.5A									
0.3 - 0.4	0.39A	0.66D	28.8A						4D	9	18	70
0.4 - 0.5			32.9A									
0.5 - 0.6			33.4A									
0.6 - 0.7		0.54D	38.4A									
0.7 - 0.8			44.2A									
0.8 - 0.9			45.9A									

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 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.5 - 0.6									
0.6 - 0.7									
0.7 - 0.8									
0.8 - 0.9									

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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_CEC	CEC - 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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 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