Project Name: **CB**
Project Code: **CB** **Site ID:** **B433** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.D. Hubble
Date Desc.: 30/04/60
Map Ref.: Sheet No. : 9146 1:100000
Northing/Long.: 151.313888888889
Easting/Lat.: -25.5177777777778
Locality:
Elevation: 244 metres
Rainfall: 635
Runoff: Rapid
Drainage: Rapidly drained

Geology

ExposureType: Soil pit
Geol. Ref.: Clc
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 0.76 m deep,Mudstone

Land Form

Rel/Slope Class: No Data
Morph. Type: Crest
Elem. Type: Hillslope
Slope: 12.2 %
Pattern Type: Low hills
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Epipedal Red Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dr4.12
Great Soil Group: N/A

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark reddish brown (5YR3/3-Moist); ; Loam (Heavy); Strong grade of structure, 2-5 mm, Granular; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 7.2 (pH meter); Clear change to -
B2	0.08 - 0.22 m	Reddish brown (5YR4/3-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Many (>5 per 0.01m2) Coarse (>5mm) macropores, Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Field pH 7.2 (pH meter); Gradual change to -
B2	0.22 - 0.41 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Field pH 7.5 (pH meter); Diffuse change to -
BC	0.41 - 0.61 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, coarse fragments; Field pH 7.9 (pH meter); Diffuse change to -
C	0.76 - 1.14 m	; Field pH 8.1 (pH meter);

Morphological Notes

C Weathered mudstone with pieces of limestone.

Observation Notes

0-6CM POROUS GRANULAR STRUCTURE:DESPITE FACTUAL KEY GROUPING THIS SOIL HAS STRONGEST AFFINITIES WITH
EUCHROZEMS AND GRADATIONAL-TEXTURE SOILS:

Site Notes

CENTRAL BURNET

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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 - 0.06	7.2H	0.09B	31.4K	6.6	3.8	0.31	0.79D			
0.08 - 0.22	7.2H	0.04B								
0.22 - 0.41	7.5H	0.03B	20K	4.2	0.74	0.14	0D			
0.41 - 0.61	7.9H	0.05B								
0.76 - 1.14	8.1H	0.05B								

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 - 0.06		5.2A	228C	0.158F	0.559B			3	9C	14	20	45
0.08 - 0.22		3.3A	71C		0.376B			3	7C	14	22	48
0.22 - 0.41		1.4A						20	8C	18	23	49
0.41 - 0.61												
0.76 - 1.14			560C	0.115F								

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 - 0.06									
0.08 - 0.22									
0.22 - 0.41									
0.41 - 0.61									
0.76 - 1.14									

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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_H	Hydrogen Cation - 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
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded