

Project Name: CB
Project Code: CB **Site ID:** B416 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	27/04/60	Elevation:	201 metres
Map Ref.:	Sheet No. : 9146 1:100000	Rainfall:	635
Northing/Long.:	151.349444444444	Runoff:	Rapid
Easting/Lat.:	-25.647777777778	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Dcw	Substrate Material:	Soil pit, 0.9 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	8.7 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Vertic Calcic Red Dermosol		Principal Profile Form:	Gn3.19
ASC Confidence:		Great Soil Group:	Prairie soil
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, , . *Species includes - Chloris species
Tall Strata - Tree, , . *Species includes - Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Moist; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7 (pH meter); Clear change to -
A12	0.05 - 0.25 m	Reddish brown (5YR4/3-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.1 (pH meter); Gradual change to -
A2	0.25 - 0.33 m	Light yellowish brown (10YR6/4-Moist); Very pale brown (10YR7/3-Dry); ; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter); Clear change to -
B1	0.33 - 0.5 m	Reddish brown (5YR4/3-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.6 (pH meter); Gradual change to -
B2	0.5 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, coarse fragments; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter); Clear change to -
2B2	0.91 - 1.22 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very plastic; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter); Gradual change to -
2CB	1.22 - 1.52 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very plastic; 10-20%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.7 (pH meter); Diffuse change to -
2CB	1.68 - 1.83 m	Brown (10YR4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very plastic; 20-50%, coarse gravelly, 20-60mm, coarse fragments; Very few (0 - 2 %), Manganiferous, , Soft segregations; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);

Morphological Notes

Observation Notes

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Site Notes

CENTRAL BURNET

91-183CM COARSE STRUCTURED HEAVY CLAY: 50-183CM CALCAREOUS SEGREGATIONS BOTH SOFT AND

NODULES:NATIVE VEGETATION SOFTWOOD (MESOPHYLL VINE) SCRUB INCLUDING BOTTLE TREES (BURUP) AND
BRIGALOW (AC HAR)

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.05	7H	0.04B								
0.05 - 0.25	7.1H	0.02B	13.1K	3.1	0.44	0.32	4.7D			
0.25 - 0.33	7.3H	0.02B								
0.33 - 0.5	7.6H	0.02B	14.2K	5.9	0.08	1	3.8D			
0.5 - 0.8	8.5H	0.09B								
0.91 - 1.22	8.9H	0.22B	15.4K	18.4	0.08	6.6	0D			
1.22 - 1.52	8.7H	0.38B								
1.68 - 1.83	8.5H	0.39B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05			57C	0.088F	0.35B							
0.05 - 0.25		1.4A	6C	0.064F	0.16B			12	17C	27	28	26
0.25 - 0.33												
0.33 - 0.5		0.3A						15	22C	23	26	32
0.5 - 0.8												
0.91 - 1.22	6.7C		1C	0.03F					6C	11	13	64
1.22 - 1.52												
1.68 - 1.83		2A	3C	0.023F								

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
			g/g - m3/m3						mm/h

0 - 0.05
 0.05 - 0.25
 0.25 - 0.33
 0.33 - 0.5
 0.5 - 0.8
 0.91 - 1.22
 1.22 - 1.52
 1.68 - 1.83

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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
19B_NR	Calcium Carbonate (CaCO3) - 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 recorded
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