Project Name: LBV
Project Code: LBV **Site ID:** B54 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 09/10/50
Map Ref.: Sheet No. : 8358 1:100000
Northing/Long.: 147.383333333333
Easting/Lat.: -19.9166666666667
Locality:
Elevation: 55 metres
Rainfall: 750
Runoff: Slow
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: SDR
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 2.7 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: Plain
Slope: 0 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Self-Mulching Black Vertosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Ug5.16
Great Soil Group: Black earth

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Mid Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Ophiurous exaltatus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Wet; Very plastic; Normal plasticity; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.4 (pH meter);
B2	0.15 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Very plastic; Normal plasticity; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.8 (pH meter);
B2	0.3 - 1.07 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Wet; Very plastic; Normal plasticity; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.1 (pH meter);
B3	1.22 - 1.68 m	Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Wet; Very plastic; Normal plasticity; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.8 (pH meter);
B3	1.68 - 2.13 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Weak grade of structure, Lenticular; Wet; Moderately plastic; Normal plasticity; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

PROFILE WET WHEN SAMPLED - STRUCTURE RECORDED AS MASSIVE;SOME SOFT CAL.SEGN. FROM 122-213CM

Site Notes

BURDEKIN VALLE

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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 - 0.15	8.4H	0.04B								
0.15 - 0.3	8.8H	0.05B								
0.3 - 1.07	9.1H	0.11B								
1.22 - 1.68	8.8H	0.47B								
1.68 - 2.13	9.1H	0.3B								

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 - 0.15	0.1C	1.9E	27C	0.019F					8C	29	9	49
0.15 - 0.3												
0.3 - 1.07												
1.22 - 1.68	12.5C								6C	23	8	52
1.68 - 2.13												

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 - 0.15									
0.15 - 0.3									
0.3 - 1.07									
1.22 - 1.68									
1.68 - 2.13									

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
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
6Z	Organic carbon (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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