

Project Name: LBV
Project Code: LBV **Site ID:** B24 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	18/10/48	Elevation:	15 metres
Map Ref.:	Sheet No. : 8458 1:100000	Rainfall:	800
Northing/Long.:	147.514722222222	Runoff:	Very slow
Easting/Lat.:	-19.8033333333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZS	Substrate Material:	Auger boring, 3.5 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Black earth
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, 1.01-3m, Closed or dense. *Species includes - Ophiurous exaltatus

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Granular; Extremely coarse, (50 - 100) mm crack; Dry; Very strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.2 (pH meter); Clear change to -
B2	0.13 - 0.51 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Extremely coarse, (50 - 100) mm crack; Dry; Very strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.4 (pH meter); Diffuse change to -
B2	0.51 - 1.09 m	Very dark grey (10YR3/1-Moist); , 2.5Y66; Heavy clay; Strong grade of structure, 100-200 mm, Lenticular; Extremely coarse, (50 - 100) mm crack; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Diffuse change to -
B2	1.14 - 1.45 m	Dark grey (10YR4/1-Moist); , 2.5Y62; Heavy clay; Moderate grade of structure, 100-200 mm, Lenticular; Extremely coarse, (50 - 100) mm crack; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Diffuse change to -
B2	1.52 - 1.98 m	Light brownish grey (2.5Y6/2-Moist); , 2.5YR48; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

100MM WIDE CRACKS DOWN TO 1.2M

Site Notes

BURDEKIN VALLE

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[illegible]

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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 (CaCO ₃) - 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 recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - 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