

Project Name: LBV
Project Code: LBV **Site ID:** B101 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.B. Stirk	Locality:	
Date Desc.:	19/11/50	Elevation:	20 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	850
Northing/Long.:	147.35	Runoff:	Very slow
Easting/Lat.:	-19.7833333333333	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Czs	Substrate Material:	Auger boring, 2 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): Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous-Epihypersodic Epipedal Grey 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:

Tall Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Chloris species

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, , Other

Profile Morphology

A1	0 - 0.05 m	Very dark grey (2.5Y3/0-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Granular; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Abrupt change to -
B2	0.05 - 0.36 m	Dark grey (2.5Y4/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.9 (pH meter); Gradual change to -
B2	0.36 - 0.79 m	Dark grey (2.5Y4/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.4 (pH meter); Gradual change to -
B2	0.79 - 1.02 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moderate grade of structure, 50-100 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.2 (pH meter); Gradual change to -
B3	1.07 - 1.57 m	Dark greyish brown (10YR4/2-Moist); , 10YR52; Heavy clay; Weak grade of structure, Lenticular; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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[illegible]

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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_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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19A1	Carbonates - rapid titration
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
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_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance