

Project Name: LBV
Project Code: LBV **Site ID:** B5 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/10/48	Elevation:	30 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.207222222222	Runoff:	Very slow
Easting/Lat.:	-19.895	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Auger boring, 5 m deep, Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	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): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mesonatric Grey Sodosol		Principal Profile Form:	Dy2.43
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Grey (10YR6/1-Moist); ; Clay loam; Massive grade of structure; Coarse, (10 - 20) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 6 (pH meter); Sharp, Smooth change to -
B21	0.1 - 0.23 m	Grey (10YR5/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Diffuse change to -
B22	0.25 - 0.53 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.2 (pH meter); Diffuse change to -
B22	0.53 - 0.91 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Coarse, (10 - 20) mm crack; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Diffuse change to -
B2	0.97 - 1.52 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Moderately plastic; Moderately sticky; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 8.1 (pH meter); Diffuse change to -
B2	1.52 - 2.13 m	Light yellowish brown (10YR6/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Moderately plastic; Moderately sticky; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 8.1 (pH meter);

Morphological Notes

Observation Notes

STRONG VERTICAL CRACKING DOWN TO 97CM:

Site Notes

BURDEKIN VALLE

Observation ID: 1

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 - 0.1	6H	0.02B	4.2K	3.8	0.3	0.4	6.9D		15.6B	
0.1 - 0.23	6.6H	0.05B								
0.25 - 0.53	7.2H	0.13B	14.2K	12.9	0.21	4.2	3D		34.5B	
0.53 - 0.91	7.8H	0.19B								
0.97 - 1.52	8.3H	0.17B								
1.52 - 2.13	8.1H	0.16B	11.9K	13.7	0.46	5.1	0.9D		32.1B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		1.3E	8C	0.019F	0.09B				2C	54	19	22
0.1 - 0.23					0.06B				1C	25	17	54
0.25 - 0.53					0.04B				1C	24	17	54
0.53 - 0.91	0.04C								1C	24	21	52
0.97 - 1.52	0.04C											
1.52 - 2.13	0.01C								1C	18	24	56

[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_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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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