

Project Name: LBV
Project Code: LBV **Site ID:** B22 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R. Hare	Locality:	
Date Desc.:	18/10/48	Elevation:	17 metres
Map Ref.:	Sheet No. : 8458 1:100000	Rainfall:	800
Northing/Long.:	147.590555555556	Runoff:	Moderately rapid
Easting/Lat.:	-19.836666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZS	Substrate Material:	Soil pit, 1 m deep, Slightly porous, Igneous rock (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Calcic Brown Chromosol		Principal Profile Form:	Dy3.23
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, 3.01-6m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Very weak consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 6.6 (pH meter); Clear change to -
A2	0.05 - 0.18 m	Dark grey (10YR4/1-Moist); ; Sandy medium clay; Massive grade of structure; Dry; Very weak consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 6.9 (pH meter); Clear change to -
B21	0.18 - 0.38 m	Brown (10YR5/3-Moist); , 7.5YR62; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.3 (pH meter); Diffuse change to -
B22	0.38 - 0.64 m	Pinkish grey (7.5YR6/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Common (10 - 20 %), Calcareous, , Nodules; Field pH 8.6 (pH meter); Diffuse change to -
C	0.71 - 0.97 m	Very pale brown (10YR7/3-Moist); ; Light clay; Massive grade of structure; Moist; Weak consistence; 20-50%, coarse fragments; Field pH 9 (pH meter);

Morphological Notes

Observation Notes

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				Comol (+)/kg				%
0 - 0.05	6.6H	0.01B	9K	5.5	0.19	0.11	3.7D		18.5E	
0.05 - 0.18	6.9H	0.01B								
0.18 - 0.38	7.3H	0.02B	20.9K	8.6	0.11	0.32	3.7D		33.6E	
0.38 - 0.64	8.6H	0.05B								
0.71 - 0.97	9H	0.04B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		1.3E	7C	0.014F	0.08B				31C	38	14	17
0.05 - 0.18									28C	35	12	24
0.18 - 0.38									22C	22	13	43
0.38 - 0.64	7C								16C	24	14	36
0.71 - 0.97	5.3C								7C	41	28	20

[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