

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B8      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	12/10/48	<b>Elevation:</b>	32 metres
<b>Map Ref.:</b>	Sheet No. : 8358 1:100000	<b>Rainfall:</b>	800
<b>Northing/Long.:</b>	147.216666666667	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-19.8791666666667	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Cza	<b>Substrate Material:</b>	Auger boring, Slightly porous, Unconsolidated material (unidentified)

**Land Form**

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

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Calcic Hypernatric Black Sodosol		<b>Principal Profile Form:</b>	Dd1.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Solonetz
All necessary analytical data are available.			

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

**Vegetation:** Low Strata - Tussock grass, , . \*Species includes - Chloris species  
Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eremophila mitchellii

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.03 m	Light yellowish brown (2.5Y6/4-Moist); ; Loam; Weak grade of structure, 2-5 mm, Platy; Dry; Weak consistence; Field pH 6.4 (pH meter); Abrupt change to -
B21	0.04 - 0.36 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 8.1 (pH meter); Many, fine (1-2mm) roots; Diffuse change to -
B22	0.36 - 0.66 m	Dark greyish brown (2.5Y4/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH meter); Diffuse change to -
B23	0.69 - 0.91 m	Greyish brown (2.5Y5/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B31	0.91 - 1.37 m	Pale brown (10YR6/3-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B32	1.37 - 1.75 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.3 (pH meter); Diffuse change to -
BC	1.83 - 2.44 m	Very pale brown (10YR7/3-Moist); ; Light clay; Massive grade of structure; Moist; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.2 (pH meter);

**Morphological Notes**

**Observation Notes**

MICRO-RELIEF SLIGHT BANKS AND PUDDLED PANS 25MM BELOW LEVEL:

**Site Notes**

BURDEKIN VALLE

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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
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