

**Project Name:** LBV  
**Project Code:** LBV      **Site ID:** B46      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	
<b>Date Desc.:</b>	06/09/50	<b>Elevation:</b>	60 metres
<b>Map Ref.:</b>	Sheet No. : 8357    1:100000	<b>Rainfall:</b>	750
<b>Northing/Long.:</b>	147.4	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	-20.05	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	PLZ	<b>Substrate Material:</b>	Auger boring, 3 m deep, 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>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Self-mulching

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol		<b>Principal Profile Form:</b>	Ug5.24

**ASC Confidence:**

All necessary analytical data are available.

**Great Soil Group:** Grey clay

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

**Vegetation:** Low Strata - Tussock grass, , Very sparse. \*Species includes - Chloris species  
Tall Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Acacia species, Bassia species, Excoecaria parvifolia

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

**Profile Morphology**

A1	0 - 0.03 m	Light grey (2.5Y7/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 10-20 mm, Granular; Dry; Firm consistence; Field pH 7 (pH meter); Clear, Irregular change to -
B2	0.03 - 0.3 m	Grey (2.5Y6/0-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Wet; Very plastic; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 8 (pH meter); Diffuse change to -
B2	0.3 - 0.61 m	Grey (2.5Y5/0-Moist); ; Heavy clay; Weak grade of structure, 50-100 mm, Angular blocky; Wet; Very plastic; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 8.1 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

BURDEKIN VALLE

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Exchangeable K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.03	7H	0.01B								
0.03 - 0.3	8H	0.06B	25.2K	12.9	0.63	3.44	2.1D		44.3E	
0.3 - 0.61	8.1H	0.37B								

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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 <sub>3</sub> ) - 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