

Project Name: LBV
Project Code: LBV **Site ID:** B18 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	14/10/48	Elevation:	35 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.175555555556	Runoff:	Slow
Easting/Lat.:	-19.8883333333333	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qu	Substrate Material:	Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Fan	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Subnatric Grey Sodosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
All necessary analytical data are available.			

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

Vegetation:

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Eucalyptus papuana, Grevillea

striata

Surface Coarse Fragments: 10-20%, stony, 200-600mm, , Metamorphic rock (unidentified)

Profile Morphology

A1	0 - 0.08 m	Grey (10YR5/1-Moist); ; Coarse sandy loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.9 (pH meter); Clear change to -
A2	0.08 - 0.13 m	Light grey (10YR7/1-Moist); , 10YR52; Coarse sandy loam; Massive grade of structure; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.2 (pH meter); Abrupt change to -
B21	0.13 - 0.43 m	Dark greyish brown (10YR4/2-Moist); , 10YR51; , 10YR64; Sandy medium clay; Moderate grade of structure, 100-200 mm, Columnar; Weak grade of structure, 50-100 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.8 (pH meter); Diffuse change to -
B22	0.46 - 0.76 m	Light yellowish brown (10YR6/4-Moist); , 10YR61; Light clay; Weak grade of structure, 50-100 mm, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.4 (pH meter); Diffuse change to -
B3	0.79 - 0.99 m	Light yellowish brown (10YR6/4-Moist); ; Light clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 9.4 (pH meter); Diffuse change to -
B3	0.99 - 1.3 m	Light grey (2.5Y7/2-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 9.3 (pH meter); Diffuse change to -
B3	1.3 - 1.78 m	Light grey (2.5Y7/2-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 8.9 (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	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
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