

Project Name: LBV
Project Code: LBV **Site ID:** B56 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	11/10/50	Elevation:	60 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	750
Northing/Long.:	147.233333333333	Runoff:	Moderately rapid
Easting/Lat.:	-19.933333333333	Drainage:	Imperfectly drained

Geology

Exposure Type:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	SDR	Substrate Material:	Soil pit, 1 m deep, Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	1.5 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Mottled-Hypernatric Grey Sodosol		Principal Profile Form:	Dy3.43
ASC Confidence:		Great Soil Group:	Solodized solonetz
No analytical data are available but confidence is fair.			

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

Vegetation: Low Strata - Tussock grass, , Very sparse. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus papuana, Grevillea striata

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, angular, Substrate material

Profile Morphology

A1	0 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Loamy coarse sand; Massive grade of structure; Many (>5 per 0.01m ²) Coarse (>5mm) macropores, Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Gravel, coarse fragments; Field pH 6.4 (pH meter); Abrupt, Wavy change to -
B2	0.1 - 0.38 m	Dark greyish brown (10YR4/2-Moist); , 10YR63; , 5YR44; Medium clay; Strong grade of structure, 100-200 mm, Columnar; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Gravel, coarse fragments; Field pH 8 (pH meter); Diffuse change to -
B2	0.41 - 0.56 m	Pale brown (10YR6/3-Moist); , 5YR53; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.5 (pH meter); Diffuse change to -
B2	0.56 - 0.76 m	Reddish brown (5YR5/3-Moist); , 10YR68; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B3	0.76 - 1.14 m	Brownish yellow (10YR6/6-Moist); , 5YR53; , 10YR64; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Substrate material, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.4 (pH meter);

Morphological Notes

Observation Notes

0-10CM A1 + A2 HORIZON

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 - 0.1	6.4H	0.01B	2.8K	1.2	0.15	0.13	9.8D		14.1E	
0.1 - 0.38	8H	0.16B								
0.41 - 0.56	9.5H	0.32B								
0.56 - 0.76	9.2H	0.38B								
0.76 - 1.14	9.4H	0.29B								

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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_GRAV	Gravel (%)
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