LBV **Project Name:**

Project Code: LBV Observation ID: 1 Site ID: **B12**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Locality: G.D. Hubble

Desc. By: Date Desc.: 12/10/48 Elevation: 21 metres Sheet No.: 8358 1:100000 Map Ref.: Rainfall: 800 Northing/Long.: 147.20944444445 Runoff: Slow

Imperfectly drained Easting/Lat.: -19.82 Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Slightly porous, Cza

Clay

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Alluvial plain

1-3%

Morph. Type: No Data Relief: 3 metres Plain Slope Category: No Data Elem. Type: Slope: 0 % Aspect: No Data

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Calcic Mottled-Mesonatric Yellow Sodosol Dy3.43 **Principal Profile Form: ASC Confidence: Great Soil Group:** Solodic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals **Vegetation:** Low Strata - Tussock grass, , . *Species includes - None recorded

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.18 m	Light grey (10YR7/1-Moist); ; Silty loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6 (pH meter); Sharp, Smooth change to -
B21	0.18 - 0.3 m	Light yellowish brown (10YR6/4-Moist); , 10YR52; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.7 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
B22	0.3 - 0.53 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.9 (pH meter); Many, very fine (0-1mm) roots; Diffuse change to -
B23	0.56 - 0.81 m	Brown (10YR5/3-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, , Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.9 (pH meter); Diffuse change to -
ВС	0.81 - 0.91 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.1 (pH meter); Diffuse change to -
ВС	0.91 - 1.52 m	Greyish brown (2.5Y5/2-Moist); ; Fine sandy medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, , Nodules; Few (2 - 10 %), Calcareous, , Nodules; Field pH 8.9 (pH meter); Diffuse change to -
ВС	1.52 - 1.98 m	Light brownish grey (2.5Y6/3-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Calcareous, , Nodules; Field pH 9.2 (pH meter);

Morphological Notes

Observation Notes

12-18CM BLEACHED A2 HORIZON

Site Notes

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BURDEKIN VALLE

Project Name: LBV
Project Code: LBV Site ID: B12
Agency Name: CSIRO Division of Soils (QLD) Site ID: B12 Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable	Cations K	Na	Exchangeable	CEC		ECEC	E	SP
m		dS/m	Ca i	Иg	N.	Cmol (+	Acidity)/kg				·	%
0 - 0.18	6H	0.02B	2.9K	2.9	0.34	0.33	12.1D			18.6E		
0.18 - 0.3	6.7H	0.16B	6.1K	9.7	0.2	3.7	3.5D			23.2E		
0.3 - 0.53	7.9H	0.29B	8K	13.1	0.23	8.8	1.5D			31.6E		
0.56 - 0.81	8.9H	0.33B										
0.81 - 0.91	9.1H	0.24B										
0.91 - 1.52	8.9H	0.18B	5.7K	9.4	0.22	7.9				23.2E		
1.52 - 1.98	9.2H	0.22B										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	
•		Č	P	Р	N	K	Density	G۷	CS	FS	Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.18		0.94E	7C	0.01F	0.0	6B			1C	50	35	14
0.18 - 0.3									1C	38	28	34
0.3 - 0.53									1C	27	22	49
0.56 - 0.81	0.210											
0.81 - 0.91	0.250								1C	45	26	28
0.91 - 1.52	0.020								1C	47	19	32
1.52 - 1.98	0.3C								1C	38	26	33
Depth COLE Gravimetric/Volumetric Water Contents									K s	at	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g	g - m3/m	3			mm	/h	mm/h	

0 - 0.18 0.18 - 0.3 0.3 - 0.53 0.56 - 0.81 0.81 - 0.91 0.91 - 1.52 1.52 - 1.98

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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 - meg per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Loss on Ignition (%) 2_LOI 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 recordede

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9_NR 9A_NR

P10_NR_C Clay (%) - Not recorded

P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded