LBV **Project Name:**

Project Code: LBV Site ID: **B40** Observation ID: 1

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality:

Elevation: 70 metres 09/11/49 Sheet No.: 8357 1:100000 Map Ref.: Rainfall: 750

Northing/Long.: 147.216666666667 Runoff: Moderately rapid Moderately well drained Easting/Lat.: -20.15Drainage:

Geology

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

Geol. Ref.: **Substrate Material:** Soil pit, 1 m deep, Porous, Igneous rock CZA

(unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10% Pattern Type: Plain Morph. Type: No Data Relief: No Data Elem. Type: Footslope Slope Category: No Data Aspect: No Data Slope: 4 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Basic Mottled-Subnatric Brown Sodosol **Principal Profile Form:** Dy3.73 **ASC Confidence: Great Soil Group:** Solodic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus dichromophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

	Morphology	
A1	0 - 0.15 m	Greyish brown (10YR5/2-Moist); ; Coarse sandy loam; Weak grade of structure, Granular; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 6 (pH meter); Gradual change to -
A2	0.15 - 0.25 m	Light brownish grey (10YR6/2-Moist); ; Sandy loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 5.8 (pH meter); Gradual change to -
A3	0.25 - 0.36 m	Pale brown (10YR6/3-Moist); ; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, coarse fragments; Field pH 6.2 (pH meter); Sharp change to -
B21	0.36 - 0.71 m	Yellowish brown (10YR5/6-Moist); , 2.5Y62; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 6.9 (pH meter); Diffuse change to -
B22	0.71 - 1.02 m	Yellowish brown (10YR5/6-Moist); , 2.5Y60; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8 (pH meter); Diffuse change to -

С Brownish yellow (10YR6/6-Moist); , 10YR82; Light clay; Massive grade of structure; Moderately 1.02 - 1.27 m moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %),

Manganiferous, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Editory Foot Robuito.													
Depth	рН	1:5 EC		nangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	E	CEC	E	SP	
m		dS/m		9		Cmol (+	•				9	6	
0 - 0.15	6H	0.01B	1.6K	1	0.22	0.05	3.5D		6	6.4E			
0.15 - 0.25 0.25 - 0.36	5.8H 6.2H	0.01B 0.01B											
0.25 - 0.36	6.2⊓ 6.9H	0.01B	4.8K	3.7	0.1	0.97	4.6D		1	4.2E			
0.30 - 0.71	8H	0.01B	5.5K	4.2	0.1	1.3	1.9D			13E			
1.02 - 1.27	8.8H	0.02B	9.9K	8.4	0.00	2	1.50			0.4E			
1.02 1.27	0.011	0.00B	0.010	0.4	0.14	_			_	0.72			
Depth	CaCO3	Organic	Avail.	Total	Total	Total					nalysis		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt (Clay	
0 - 0.15		0.7E	3C	0.008F	0.0	/R		4	40C	44	7	8	
0.15 - 0.25		0.7 L	30	0.0001	0.0	40		5	37C	45	8	10	
0.25 - 0.36								12	35C	42	7	16	
0.36 - 0.71		0.28E			0.0	3B		4	25C	24	6	45	
0.71 - 1.02	0.010				0.0	-		2	30C	29	8	32	
1.02 - 1.27	0.020							6	42C	26	11	19	
Depth	Depth COLE Gravimetric/Volumetric Water Contents								K sat		K unsat		
m		Sat.	t. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3						mm/h		mm/h		

0 - 0.15 0.15 - 0.25 0.25 - 0.36 0.36 - 0.71 0.71 - 1.02 1.02 - 1.27

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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 Air-dry moisture content 2A1

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_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded

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