Project Name: LBV
Project Code: LBV **Site ID:** B51 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	**Locality:**	
Date Desc.:	08/09/50	**Elevation:**	45 metres
Map Ref.:	Sheet No. : 8357 1:100000	**Rainfall:**	750
Northing/Long.:	147.333333333333	**Runoff:**	Slow
Easting/Lat.:	-20.0833333333333	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	CZA	**Substrate Material:**	Auger boring, 1.1 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Alluvial plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Mesonatric Brown Sodosol

ASC Confidence:
No analytical data are available but confidence is fair.

Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus papuana, Eucalyptus polycarpa, Acacia farnesiana

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, ,

Profile Morphology

A1	0 - 0.06 m	Light brownish grey (10YR6/2-Moist); ; Loam; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 6.4 (pH meter); Clear change to -
A2	0.06 - 0.14 m	Light grey (10YR7/2-Moist); ; Loam; Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.1 (pH meter); Sharp, Irregular change to -
B21	0.15 - 0.25 m	Brown (10YR5/3-Moist); , 10YR51; , 10YR41; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.9 (pH meter); Gradual change to -
B22	0.25 - 0.51 m	Dark grey (10YR4/1-Moist); , 10YR64; , 10YR42; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH meter); Diffuse change to -
B3	0.56 - 0.86 m	Light yellowish brown (10YR6/4-Moist); , 2.5Y42; , 2.5Y62; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Diffuse change to -
B3	0.86 - 1.09 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y42; , 2.5Y72; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Substrate material, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.5 (pH meter); Diffuse change to -
C	1.09 - 1.27 m	Light brownish grey (2.5Y6/2-Moist); , 2.5Y52; Light clay; Massive grade of structure; Moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules;

Morphological Notes

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Observation Notes

Site Notes
BURDEKIN VALLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.06	6.4H	0.02B								
0.06 - 0.14	7.1H	0.02B								
0.15 - 0.25	7.9H	0.04B								
0.25 - 0.51	9.3H	0.02B								
0.56 - 0.86	9.2H	0.03B								
0.86 - 1.09	9.5H	0.29B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.06		1E	6C	0.014F	0.07B			1	15C	42	26	15
0.06 - 0.14												
0.15 - 0.25									8C	30	25	36
0.25 - 0.51												
0.56 - 0.86	0.46C							5	11C	38	18	32
0.86 - 1.09												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.06										
0.06 - 0.14										
0.15 - 0.25										
0.25 - 0.51										
0.56 - 0.86										
0.86 - 1.09										

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - 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 recordede
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