

Project Name: LBV
Project Code: LBV **Site ID:** B49 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	07/09/50	Elevation:	70 metres
Map Ref.:	Sheet No. : 8357 1:100000	Rainfall:	750
Northing/Long.:	147.316666666667	Runoff:	Slow
Easting/Lat.:	-20.2	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CZA	Substrate Material:	Auger boring, 2 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:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dy2.32
ASC Confidence:		Great Soil Group:	Yellow podzolic soil
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Light brownish grey (10YR6/2-Dry); ; Fine sandy loam; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.3 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A2	0.08 - 0.28 m	Light yellowish brown (10YR6/4-Dry); ; Loamy fine sand; Massive grade of structure; Many (>5 per 100mm2) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Common, fine (1-2mm) roots; Sharp change to -
B21	0.33 - 0.64 m	Yellowish red (5YR5/5-Moist); Reddish yellow (7.5YR6/6-Dry); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.2 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B22	0.64 - 0.84 m	Reddish yellow (5YR6/6-Dry); ; Fine sandy medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 8 (pH meter); Gradual change to -
B3	0.84 - 1.37 m	Reddish yellow (7.5YR6/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Very weak consistence; Field pH 8 (pH meter); Gradual change to -
B3	1.37 - 1.93 m	Strong brown (7.5YR5/6-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Very weak consistence; Field pH 7.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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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 - 0.08	66.3H	0.01B	3.2K	1.9	0.54	0	4.2D		9.8E	
0.08 - 0.28	6.5H	0.01B								
0.33 - 0.64	7.2H	0.01B	7.6K	7.5	0.28	0.65	3.6D		19.6E	
0.64 - 0.84	8H	0.03B								
0.84 - 1.37	8H	0.03B								
1.37 - 1.93	7.7H	0.02B	7.6K	5.1	0.21	0.56	1D		14.5E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.08		1E	79C	0.031F	0.07B			0	2C	74	12	11
0.08 - 0.28									3C	71	13	12
0.33 - 0.64									1C	51	6	41
0.64 - 0.84	0.01C								2C	63	9	26
0.84 - 1.37	0C											
1.37 - 1.93									1C	58	13	29

[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
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