

Project Name: LBV
Project Code: LBV **Site ID:** B27 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	I. Nankivell	Locality:	
Date Desc.:	16/08/49	Elevation:	19 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	750
Northing/Long.:	147.079166666667	Runoff:	Moderately rapid
Easting/Lat.:	-19.777777777778	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, 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:	Bank	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Bleached-Vertic Calcic Grey Chromosol		Principal Profile Form:	Dy3.43
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 triticeus, Heteropogon contortus
Mid Strata - Shrub, , . *Species includes - Planchonia careya
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.16 m	Grey (10YR5/1-Moist); ; Loamy sand; Massive grade of structure; Many (>5 per 100mm2) macropores; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.6 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
A2	0.18 - 0.3 m	Light grey (10YR7/2-Moist); ; Loamy sand; Massive grade of structure; Many (>5 per 100mm2) macropores; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
A3	0.3 - 0.38 m	Pale brown (10YR6/3-Moist); ; Clay loam, sandy; Massive grade of structure; Many (>5 per 100mm2) macropores; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B21	0.39 - 0.51 m	Grey (10YR5/1-Moist); , 10YR64; , 10YR56; Heavy clay; Moderate grade of structure, 100-200 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.5 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B22	0.51 - 1.02 m	Grey (10YR5/1-Moist); , 10YR64; , 5YR44; Medium clay; Moderate grade of structure, 100-200 mm, Angular blocky; Moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter); Diffuse change to -
B3	1.09 - 1.52 m	Reddish brown (5YR4/4-Moist); , 10YR64; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Nodules; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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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