Project Name: LBV
Project Code: LBV **Site ID:** B52 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble
Date Desc.: 12/09/50
Map Ref.: Sheet No. : 8357 1:100000
Northing/Long.: 147.3
Easting/Lat.: -20.15
Locality:
Elevation: 61 metres
Rainfall: 750
Runoff: Moderately rapid
Drainage: Imperfectly drained

Geology

ExposureType: Soil pit
Geol. Ref.: CUI
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Soil pit, 1.2 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Mesonatric Yellow Sodosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Dy3.43
Great Soil Group: Solodized solonetz

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.3 (pH meter); Many, fine (1-2mm) roots; Clear change to -
A2	0.05 - 0.18 m	Light grey (10YR7/2-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Sharp, Irregular change to -
B21	0.18 - 0.38 m	Light yellowish brown (10YR6/4-Moist); , 10YR66; Light medium clay; Moderate grade of structure, 100-200 mm, Columnar; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.3 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B22	0.46 - 0.76 m	Light yellowish brown (10YR6/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.2 (pH meter); Gradual change to -
B3	0.76 - 1.17 m	Light brownish grey (10YR6/2-Moist); ; Clay loam (Heavy); Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Gradual change to -
BC	1.17 - 1.22 m	Pinkish grey (7.5YR6/2-Moist); ; Clay loam; Massive grade of structure; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Diffuse change to -
R	1.22 - 1.52 m	Rock

Morphological Notes

R Hard granitic rock

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 - 0.05	6.3H	0.02B								
0.05 - 0.18	6.6H	0.01B								
0.18 - 0.38	7.3H	0.03B								
0.46 - 0.76	9.2H	0.01B								
0.76 - 1.17	9H	0.05B								

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 - 0.05		0.71E	5C	0.006F	0.04B			1	47C	31	10	10
0.05 - 0.18								1	45C	32	13	11
0.18 - 0.38								3	33C	27	15	25
0.46 - 0.76								2	22C	26	17	34
0.76 - 1.17												

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 - 0.05										
0.05 - 0.18										
0.18 - 0.38										
0.46 - 0.76										
0.76 - 1.17										

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Laboratory Analyses Completed for this profile

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