Project Name: LBV
Project Code: LBV **Site ID:** B7 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	
Date Desc.:	01/10/48	**Elevation:**	38 metres
Map Ref.:	Sheet No. : 8358 1:100000	**Rainfall:**	800
Northing/Long.:	147.201111111111	**Runoff:**	Moderately rapid
Easting/Lat.:	-19.8777777777778	**Drainage:**	Well drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Pzg	**Substrate Material:**	Soil pit, 1 m deep,Slightly porous, Metamorphic rock (unidentified)

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dr2.12
Great Soil Group: Red-brown earth

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: 2-10%, cobbly, 60-200mm, ,

Profile Morphology

A1	0 - 0.05 m	Dark grey (10YR4/1-Moist); ; Loam (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very weak consistence; Field pH 6.9 (pH meter); Clear change to -
A3	0.05 - 0.18 m	Brown (7.5YR4/3-Moist); ; Clay loam (Heavy); Weak grade of structure, Angular blocky; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, , Concretions; Field pH 6.9 (pH meter); Clear change to -
B2	0.2 - 0.58 m	Reddish brown (5YR4/4-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Very few (0 - 2 %), Manganiferous, , Concretions; Field pH 7.1 (pH meter); Diffuse change to -
B3	0.61 - 0.84 m	Yellowish red (5YR4/6-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; Field pH 7.5 (pH meter); Diffuse change to -
BC	0.89 - 1.04 m	Light yellowish brown (10YR6/4-Moist); ; Light clay (Heavy); Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; Field pH 7.9 (pH meter); Diffuse change to -
C	1.04 - 1.27 m	Very pale brown (10YR7/3-Moist); ; Clay loam; Massive grade of structure; Moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 8 (pH meter);

Morphological Notes

Observation Notes

PROFILE FROM 20CM TENDS TO FORM PRISMS OF 10CM DIAMETER:127CM HARD ROCK:

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	6.9H	0.02B	10.3K	4.5	0.71	0.24	4.5D		20.2E	
0.05 - 0.18	6.9H	0.01B								
0.2 - 0.58	7.1H	0.01B	9.4K	8.2	0.21	0.29	5.5D		23.6E	
0.61 - 0.84	7.5H	0.02B								
0.89 - 1.04	7.9H	0.02B	31.3K	35.2	0.18	1.46				
1.04 - 1.27	8H	0.02B								

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		1.8E	27C	0.029F	0.1B				22C	42	13	18
0.05 - 0.18				0.021F	0.06B				18C	38	16	26
0.2 - 0.58				0.016F	0.03B				12C	24	8	56
0.61 - 0.84									12C	28	13	45
0.89 - 1.04									11C	34	18	35
1.04 - 1.27	0.01C								19C	39	16	23

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										
0.2 - 0.58										
0.61 - 0.84										
0.89 - 1.04										
1.04 - 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 - 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 (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_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