Project Name: LBV
Project Code: LBV **Site ID:** B62 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	**Locality:**	
Date Desc.:	26/10/50	**Elevation:**	12 metres
Map Ref.:	Sheet No. : 8358 1:100000	**Rainfall:**	850
Northing/Long.:	147.45	**Runoff:**	Slow
Easting/Lat.:	-19.7666666666667	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	PZG	**Substrate Material:**	Soil pit, 0.89 m deep,Non-porous, dense, Igneous rock (unidentified)

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Rises
Morph. Type:	Crest	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Mottled-Hypernatric Grey 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, , Very sparse. *Species includes - Chloris species, Heteropogon contortus
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus papuana, Grevillea striata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Greyish brown (10YR5/2-Moist); ; Loam; Weak grade of structure, Platy; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.7 (pH meter); Abrupt, Irregular change to -
B21	0.08 - 0.28 m	Dark greyish brown (10YR4/2-Moist); , 10YR64; Medium clay; Moderate grade of structure, 100-200 mm, Columnar; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 8.3 (pH meter); Gradual change to -
B22	0.3 - 0.46 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.4 (pH meter); Gradual change to -
B23	0.51 - 0.69 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, angular, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.3 (pH meter); Diffuse change to -
B3	0.71 - 0.89 m	Greyish brown (2.5Y5/3-Moist); , 10YR51; , 10YR81; Sandy medium clay; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, angular, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.4 (pH meter); Diffuse change to -
C	0.89 - 1.22 m	Very pale brown (10YR7/3-Moist); , 10YR61; , 5Y81; Sandy clay loam; Massive grade of structure; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular, coarse fragments; Field pH 9.3 (pH meter);

Morphological Notes

Observation Notes

0-8CM A1 + A2 HORIZON (BLEACHED)

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 - 0.08	6.7H	0.02B								
0.08 - 0.28	8.3H	0.06B								
0.3 - 0.46	9.4H	0.25B								
0.51 - 0.69	9.3H	0.45B								
0.71 - 0.89	9.4H	0.52B								
0.89 - 1.22	9.3H	0.46B								

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 - 0.08		1.3E	7C	0.015F	0.08B			10	25C	43	13	17
0.08 - 0.28								5	23C	36	10	29
0.3 - 0.46	4.1C							6	17C	32	9	37
0.51 - 0.69												
0.71 - 0.89												
0.89 - 1.22												

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 - 0.08										
0.08 - 0.28										
0.3 - 0.46										
0.51 - 0.69										
0.71 - 0.89										
0.89 - 1.22										

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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