

Project Name: LBV
Project Code: LBV **Site ID:** B6 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	11/10/48	Elevation:	35 metres
Map Ref.:	Sheet No. : 8358 1:100000	Rainfall:	800
Northing/Long.:	147.201666666667	Runoff:	Moderately rapid
Easting/Lat.:	-19.88	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Pzg	Substrate Material:	Soil pit, 0.86 m deep,Slightly porous, Metamorphic rock (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Plain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Trampled, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Hypernatric Grey Sodosol		Principal Profile Form:	Dy2.33
ASC Confidence:		Great Soil Group:	Solodic soil
All necessary analytical data are available.			

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

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Grey (10YR5/1-Moist); ; Loam; Massive grade of structure; Dry; Very weak consistence; Field pH 6.6 (pH meter); Sharp, Irregular change to -
B21	0.18 - 0.36 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.3 (pH meter); Diffuse change to -
B22	0.38 - 0.51 m	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -
B3	0.56 - 0.74 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
C	0.86 - 1.22 m	Brownish yellow (10YR6/6-Moist); ; 7.5YR54, 10-20% , 15-30mm, Distinct; , 10-20% , 15-30mm, Distinct; Light clay; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.4 (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 - 0.15	6.6H	0.02B	4.6K	3.1	0.13	0.72	4.5D		13E	
0.18 - 0.36	8.3H	0.19B	9.1K	9.5	0.13	7.4			26.1E	
0.38 - 0.51	9.1H	0.34B								
0.56 - 0.74	9H	0.33B								
0.86 - 1.22	9.4H	0.24B	7.1K	8.3	0.16	14.6			30.2E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15		1.1E	8C	0.017F	0.06B				20C	48	18	14
0.18 - 0.36	0.03C				0.07B				15C	33	13	38
0.38 - 0.51												
0.56 - 0.74									8C	28	17	46
0.86 - 1.22	0.48C								7C	42	23	26

[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_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