Project Name: LBV
Project Code: LBV **Site ID:** B102 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.B. Stirk	**Locality:**	
Date Desc.:	19/11/50	**Elevation:**	20 metres
Map Ref.:	Sheet No. : 8358 1:100000	**Rainfall:**	850
Northing/Long.:	147.35	**Runoff:**	Very slow
Easting/Lat.:	-19.7833333333333	**Drainage:**	Poorly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	Czs	**Substrate Material:**	Auger boring, 2 m deep,Porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Alluvial plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Hypocalcic Hypernatric Black Sodosol
ASC Confidence:
No analytical data and little or no knowledge of this soil.

Mapping Unit: N/A
Principal Profile Form: Dd1.13
Great Soil Group: Solodic soil

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

Vegetation:
Tall Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Massive grade of structure; Dry; Very firm consistence; 2-10%, subangular, coarse fragments; Field pH 6.4 (pH meter); Sharp change to -
B1	0.05 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 7.1 (pH meter); Gradual change to -
B2	0.25 - 0.48 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Field pH 8.3 (pH meter); Gradual change to -
B2	0.48 - 0.81 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, coarse fragments; Very few (0 - 2 %), Manganiferous, , Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter);

Morphological Notes

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	6.4A	0.027C								
0.05 - 0.25	7.1A	0.021C								
0.25 - 0.48	8.3A	0.069C								
0.48 - 0.81	9A	0.294C								

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		1.99F	19C	0.018F	1.06B			6	27D	34	12	23
0.05 - 0.25		0.87F						2	25D	34	12	25
0.25 - 0.48		0.67F						1	22D	30	12	34
0.48 - 0.81		0.52F										

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 - 0.25										
0.25 - 0.48										
0.48 - 0.81										

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Laboratory Analyses Completed for this profile

2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6_DC	Organic carbon (%) - Dry combustion
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_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance