

Project Name: LBV
Project Code: LBV **Site ID:** B92 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	
Date Desc.:	15/11/50	Elevation:	50 metres
Map Ref.:	Sheet No. : 8357 1:100000	Rainfall:	850
Northing/Long.:	147.4	Runoff:	Slow
Easting/Lat.:	-20.0666666666667	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Black earth
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , Isolated clumps. *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, , Other

Profile Morphology

AB	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Polyhedral; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.4 (pH meter); Diffuse change to -
B2	0.15 - 0.43 m	Very dark grey (10YR3/1-Moist); , 2.5Y52; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9 (pH meter); Diffuse change to -
B2	0.43 - 0.84 m	Very dark grey (10YR3/1-Moist); , 2.5Y52; Heavy clay; Moderate grade of structure, Angular blocky; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 9.1 (pH meter); Diffuse change to -
B2	0.84 - 1.17 m	Greyish brown (2.5Y5/2-Moist); , 10YR42; Heavy clay; Moderate grade of structure, Lenticular; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.9 (pH meter); Diffuse change to -
B3	1.17 - 1.65 m	Light brownish grey (2.5Y6/2-Moist); ; Medium clay; Weak grade of structure, Lenticular; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

Observation ID: 1

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	8.4H	0.07B			0.55	0.51			44.4E	
0.15 - 0.43	9H	0.07B								
0.43 - 0.84	9.1H	0.18B								
0.84 - 1.17	8.9H	0.3B								
1.17 - 1.65	8.8H	0.23B								

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15_NR_K	Exch. basic cations (K++) - 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_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