LBV **Project Name:**

Project Code: LBV Site ID: **B36** Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

C.H. Thompson Locality:

Desc. By: Date Desc.: Elevation: 02/11/49 57 metres Sheet No.: 8357 1:100000 Map Ref.: Rainfall: 750 Northing/Long.: 147.2833333333333 Runoff: Very slow Easting/Lat.: Drainage: Poorly drained -20.3

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit

Geol. Ref.: cui **Substrate Material:** Auger boring, 1.5 m deep, Slightly porous,

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Level plain <9m <1% Pattern Type: Alluvial plain Morph. Type: Elem. Type: No Data No Data Relief: Plain Slope Category: No Data 0 % Aspect: No Data Slope:

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 Black earth **ASC Confidence: Great Soil Group:**

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tussock grass, , Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

<u> </u>	THE MICH PHOTOGY	
A1	0 - 0.03 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Granular; Dry; Loose consistence; Field pH 6.2 (pH meter); Many, fine (1-2mm) roots; Sharp change to -
В	0.03 - 0.33 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 6.8 (pH meter); Gradual change to -
В	0.33 - 0.71 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.7 (pH meter); Diffuse change to -
В	0.71 - 1.09 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8 (pH meter); Diffuse change to -
В	1.09 - 1.37 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 8.5 (pH meter); Diffuse change to -
С	1.52 - 1.8 m	Light yellowish brown (10YR6/4-Moist); ; Sandy medium clay; Massive grade of structure; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Editory Fost Rosalto.													
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	E	CEC	E	SP	
m		dS/m		J		Cmol (+)	•				%	•	
0 - 0.03	6.2H	0.04B											
0.03 - 0.33	6.8H	0.02B	25.3K	12.6	0.22	0.88	5.5D			4.5E			
0.33 - 0.71	7.8H	0.03B	26.4K	15.6	0.15	1.7	2.4D		46	6.3E			
0.71 - 1.09	8.1H	0.08B	26.9K	13.2	0.14	2.3	1.2D		43	3.7E			
1.09 - 1.37	8.6H	0.1B	18.4K	12.1	0.14	2			32	2.6E			
1.52 - 1.8	9.2H	0.07B											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa			nalysis		
	0/	C	Р	P	N	K	Density	G۷		FS	Silt C	lay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0 - 0.03		3.2E	20C	0.022F	0.2	3B		2	8C	10	17	58	
0.03 - 0.33		1E		0.011F	0.0	7B		4	12C	10	14	61	
0.33 - 0.71		0.77E			0.0	4B		5	12C	10	13	62	
0.71 - 1.09	0.010	0.6E			0.0	4B		7	13C	10	14	63	
1.09 - 1.37	0.170	0.3E			0.0	2B		8	21C	13	14	53	
1.52 - 1.8	0.790				0.0	1B		17	44C	17	9	31	
Depth	epth COLE Gravimetric/Volumetric Water Contents								K sat	к	unsat		
m		Sat.	0.05 Bar	0.1 Bar g/s	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/h		mm/h		

0 - 0.03 0.03 - 0.33 0.33 - 0.71 0.71 - 1.09 1.09 - 1.37 1.52 - 1.8

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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 - meg per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Loss on Ignition (%) 2_LOI Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9_NR 9A_NR

P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded

Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_CS P10_NR_FS P10_NR_Z Silt (%) - Not recorded