Project Name: LBV

Project Code: LBV Site ID: B3 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 01/10/48
 Elevation:
 19 metres

 Map Ref.:
 Sheet No.: 8358
 1:100000
 Rainfall:
 800

 Northing/Long.:
 147.2166666666667
 Runoff:
 Very slow

Easting/Lat.: -19.780555555555 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: Cza Substrate Material: Auger boring, 1.5 m deep,Porous,

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:No DataRelief:No DataElem. Type:Drainage depressionSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEutrophic Subnatric Grey SodosolPrincipal Profile Form:Dy2.43ASC 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

Frome Morphology			
	A1	0 - 0.15 m	Dark grey (10YR4/1-Moist); ; Loam; Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 6.2 (pH meter); Diffuse change to -
	A2	0.15 - 0.23 m	Light grey (10YR7/2-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.6 (pH meter); Clear, Irregular change to -
	B21	0.25 - 0.41 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Field pH 7.7 (pH meter); Diffuse change to -
	B22	0.41 - 0.56 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions;

Field pH 8.7 (pH meter); Diffuse change to -

B23 0.56 - 0.66 m Light brownish grey (2.5Y6/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular

blocky; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions;

Field pH 9 (pH meter); Diffuse change to -

B24 0.69 - 0.91 m Brown (10YR4/3-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Angular

blocky; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm),

Concretions; Field pH 8.8 (pH meter); Diffuse change to -

BC 0.97 - 1.32 m Greyish brown (10YR5/2-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm,

Angular blocky; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 -

2 mm), Concretions; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Laboratory rest Results.													
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na I	Exchangeable Acidity	CEC	E	CEC	E	SP	
m		dS/m		J		Cmol (+					9	6	
0 - 0.15	6.2H	0.007B	3.8K	1.9	0.36	0.09	3.7D		9	9.8E			
0.15 - 0.23 0.25 - 0.41	6.6H 7.7H	0.006B 0.02B	11.5K	10.2	0.2	1.64	2.6D		2	6.1E			
0.41 - 0.56	8.7H	0.02B 0.037B	11.51	10.2	0.2	1.04	2.00		2	.O. IL			
0.56 - 0.66	9H	0.058B	8.6K	5.9	0.18	1.3			1	5.9E			
0.69 - 0.91 0.97 - 1.32	8.8H 8.8H	0.09B 0.041B											
Depth	CaCO3	Organic	Avail.	Total	Total	Total			article S		-		
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	cs	FS %	Silt (Clay	
0 - 0.15		0.73E	8C	0.014F	0.05	55B			4D	52	29	13	
0.15 - 0.23					0.02	-			4D	52	34	12	
0.25 - 0.41		0.5E			0.04	4B			4D	37	20	38	
0.41 - 0.56	0.030								6D	43	22	31	
0.56 - 0.66 0.69 - 0.91	0.12C 0.24C								6D 4D	46 39	16 16	29 43	
0.89 - 0.91	0.240								12D	28	29	32	
0.07 - 1.02	0.040	,							120	20	20	52	
Depth	COLE	0-4			umetric Water Contents			r 15 Bar	K sat		K unsat		
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	раг	mm/h	ı	mm/h		

0 - 0.15 0.15 - 0.23 0.25 - 0.41 0.41 - 0.56 0.56 - 0.66 0.69 - 0.91 0.97 - 1.32

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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 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

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