Project Name: LBV

Project Code: LBV Site ID: B2 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:G.D. HubbleLocality:Date Desc.:01/10/48Elevation:

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

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

 Northing/Long.:
 147.205
 Runoff:
 Slow

Easting/Lat.: -19.7661111111111 Drainage: Imperfectly drained

Geology

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

Geol. Ref.: Cza Substrate Material: Auger boring, 2.4 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:LeveeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABleached-Mottled Eutrophic Red ChromosolPrincipal Profile Form:Dr3.42

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, , Sparse. *Species includes - None recorded

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Dark grey (10YR4/1-Moist); ; Sand; Massive grade of structure; Few (<1 per 100mm2) macropores, Dry; Very weak consistence; Field pH 6.5 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
A2	0.15 - 0.28 m	Light brownish grey (10YR6/2-Moist); ; Clayey sand; Massive grade of structure; Few (<1 per 100mm2) macropores, Dry; Very weak consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.5 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B1	0.28 - 0.61 m	Pale brown (10YR6/3-Moist); ; Sandy clay loam; Massive grade of structure; Few (<1 per 100mm2) macropores, Dry; Weak consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.1 (pH meter); Few, fine (1-2mm) roots; Clear change to -
B21	0.64 - 0.89 m	Reddish brown (2.5YR4/4-Moist); , 2.5Y72; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Field pH 6.2 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B22	0.91 - 1.19 m	Reddish brown (2.5YR4/4-Moist); , 2.5Y63; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 6.4 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -
B23	1.22 - 1.6 m	Light brownish grey (2.5Y6/3-Moist); , 2.5YR44; , 10YR54; Light clay; Massive grade of structure; Moderately moist; Firm consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Concretions; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Diffuse change to -

consistence; Field pH 7.2 (pH meter); Few, fine (1-2mm) roots;

Grey (2.5Y6/0-Moist); , 2.5Y62; Light clay; Massive grade of structure; Moderately moist; Weak

Morphological Notes

1.68 - 2.21 m

Observation Notes

Site Notes

ВЗ

BURDEKIN VALLE

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Laboratory Test Results:

Laboratory rest inesuits.													
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	EC	CEC	E:	SP	
m		dS/m	·a i	wig	N.	Cmol (%	, D	
						•	, 3						
0 - 0.13	6.5A	0.01C	2.1K	0.7	0.32	0.06	2E		5	.2B			
0.15 - 0.28	6.5A	0.007C											
0.28 - 0.61	6.1A	0.006C											
0.64 - 0.89	6.2A	0.006C	4.4K	4	0.35	0.36	4.7E		13	3.8B			
0.91 - 1.19	6.5A	0.007C											
1.22 - 1.6	7A	0.008C	4.4K	3.4	0.29	0.47	2.9E		11	1.4B			
1.68 - 2.21	7.2A	0.022C											
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	ıl Bulk	Pa	rticle Si	ize An	alvsis		
		C	Р	Р	N	K	Density	GV			Silt C	lay	
m	%	%	mg/kg	%	%	%	Mg/m3			%		-	
												_	
0 - 0.13		0.65E	21C	0.017F	0.04	1/B			15C	64	12	8	
0.15 - 0.28 0.28 - 0.61									14C	64	14	8	
0.64 - 0.89									7C	35	10	48	
0.64 - 0.69									70	33	10	40	
1.22 - 1.6									6C	48	12	34	
1.68 - 2.21									00	40	12	34	
1.00 2.21													
Depth	COLE		Gravimetric/Volumetric V			Vater Co	ater Contents		K sat	at K unsat			
Debui	COLL	Sat.	Grav 0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Rar	ix Sat	, r	unsat		
m		Jul.	o.oo ba		g - m3/m		0 Dai 10	- u.	mm/h	ı	mm/h		

0 - 0.13 0.15 - 0.28 0.28 - 0.61 0.64 - 0.89 0.91 - 1.19 1.22 - 1.6 1.68 - 2.21

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Laboratory Analyses Completed for this profile

15_NR_CA
Exch. basic cations (Ca++) - 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

15G1_H Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

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

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