LBV **Project Name:** 

**Project Code:** LBV Site ID: B119 Observation ID: 1

**Agency Name: CSIRO Division of Soils (QLD)** 

**Site Information** 

Desc. By: Date Desc.: G.D. Hubble Locality: 3 miles north of Oakey

Elevation: 14/12/50 411 metres

Sheet No.: 9143 1:100000 Map Ref.: Rainfall: 700

Northing/Long.: 151.7333333333333 Runoff: Moderately rapid Easting/Lat.: -27.4 Drainage: Moderately well drained

**Geology** 

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

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Porous, Czb

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): Hardsetting

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Calcic Subnatric Red Sodosol **Principal Profile Form:** Dr2.13

**ASC Confidence: Great Soil Group:** Red-brown earth

All necessary analytical data are available.

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

**Vegetation:** 

Tall Strata - Tree, , Sparse. \*Species includes - Eucalyptus populnea

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology** 

A11	0 - 0.08 m	Reddish brown (5YR4/3-Moist); ; Sandy loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.7 (pH meter); Clear change to -
A12	0.08 - 0.19 m	Reddish brown (5YR4/3-Moist); ; Loam; Massive grade of structure; Dry; Weak consistence; Field pH 6.8 (pH meter); Abrupt change to -
B21	0.2 - 0.46 m	Dark reddish brown (2.5YR3/3-Moist); ; Heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Moderately moist; Very firm consistence; Field pH 8.1 (pH meter); Gradual change to -
B22	0.46 - 0.56 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.4 (pH meter); Diffuse change to -
В3	0.56 - 0.86 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.2 (pH meter); Diffuse change to -
В3	0.86 - 1.52 m	Reddish brown (5YR4/4-Moist); ; Medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 9.1 (pH meter); Diffuse change to -
В3	1.52 - 2.08 m	Reddish brown (5YR4/4-Moist); , 7.5YR44; Medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Few (2 - 10 %), Calcareous, Very coarse (20 - 60 mm), Concretions; Field pH 9 (pH meter);

## **Morphological Notes**

**Observation Notes** 

**Site Notes** 

OAKEY

Project Name: LBV
Project Code: LBV Site ID: B1
Agency Name: CSIRO Division of Soils (QLD) B119 Observation ID: 1

## **Laboratory Test Results:**

Euboratory rest results.												
Depth	рН	1:5 EC		nangeable //g	Cations K	Na	Exchangeable Acidity	CEC	I	ECEC	ES	SP
m		dS/m				Cmol (+	-)/kg				%	•
0 - 0.08	6.7H	0.014B	3.4K	2.33	0.97	0.17	4.3D			11.1E		
0.08 - 0.19 0.2 - 0.46	6.8H 8.1H	0.009B 0.044B	7.2K	18	0.45	3.3		29.1	J :	2.89E	11.34	
0.46 - 0.56	9.4H	0.18B	717	47.7	0.00	0.4		05.0		05.05		
0.56 - 0.86 0.86 - 1.52	9.2H 9.1H	0.276B 0.364B	7K	17.7	0.36	6.1		25.6	6J 25.6E		23	.83
1.52 - 2.08	9H	0.426B										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	l Bulk Density	Pa GV	rticle CS	Size A FS	nalysis Silt C	lav
m	%	%	mg/kg	%	%	%	Mg/m3	•		%	· · ·	,
0 - 0.08 0.08 - 0.19					0.0	8B			31C 26C	40 37	9	17 27
0.2 - 0.46	<0.010	;			0.1	В			12C	22	7	56
0.46 - 0.56	7.770							1	11C	19	12	57
0.56 - 0.86 0.86 - 1.52	9.4C 2C							2	7C	26	15	43
1.52 - 2.08	0.5C											
Depth	COLE	COLE Gravimetric/Volumetric V					ntents		K sa	it k	( unsat	
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm/	h	mm/h	
0 - 0.08 0 08 - 0 19												

0.08 - 0.19 0.2 - 0.46 0.46 - 0.56 0.56 - 0.86 0.86 - 1.52 1.52 - 2.08

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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\_CEC CEC - meq per 100g of soil - Not recorded

15\_NR\_H Hydrogen Cation - meq per 100g of soil - Not recorded

Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15\_NR\_K Exch. basic cations (Mg++) - med per 100g of soil - Not recorded Exch. basic cations (Na++) - med per 100g of soil - Not recorded 15\_NR\_MG 15\_NR\_NA

19B\_NR Calcium Carbonate (CaCO3) - Not recorded

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

3\_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4\_NR

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

7\_NR Total nitrogen (%) - Not recorded

P10\_GRAV

Gravel (%)
Clay (%) - Not recorded P10\_NR\_C P10\_NR\_CS Coarse sand (%) - Not recorded P10\_NR\_FS Fine sand (%) - Not recorded P10\_NR\_Z Silt (%) - Not recorded