Project Name: IRV

Observation ID: 1 **Project Code:** LBV Site ID: **B87**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

G.D. Hubble Locality: Desc. Bv:

19/11/50 Date Desc.: Elevation: 36 metres Map Ref.: Sheet No.: 8458 1:100000 Rainfall: 850

Northing/Long.: 147.55 Runoff: Moderately rapid -19.8666666666667 Moderately well drained Easting/Lat.: Drainage:

Geology

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

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

Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Rises

1-3%

Morph. Type: No Data Relief: No Data Slope Category: Elem. Type: Plain No Data Slope: Aspect: No Data 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

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

Great Soil Group: ASC Confidence: Red-brown earth

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, , Mid-dense. *Species includes - Heteropogon contortus

Mid Strata - Shrub, , Very sparse. *Species includes - Grevillea striata, Planchonia careya

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.23 m Greyish brown (10YR5/2-Dry); ; Loam; Massive grade of structure; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments;

Field pH 6.1 (pH meter); Clear change to -

B21 Dark reddish brown (2.5YR3/4-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 0.23 - 0.53 m

mm, Angular blocky; Moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH 7.2 (pH meter); Diffuse change to -

B22 0.53 - 0.86 m Reddish brown (5YR4/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular

blocky; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Igneous rock

(unidentified), coarse fragments; Field pH 8.1 (pH meter); Diffuse change to -

2B2 Dark red (2.5YR3/6-Moist); ; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; 0.86 - 1.42 m

> Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules;

Field pH 8.9 (pH meter); Diffuse change to -

Reddish brown (5YR5/4-Moist); ; Light clay; Weak grade of structure, Angular blocky; Moist; 2B3 1.52 - 1.93 m

Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Igneous rock (unidentified), coarse

fragments; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9.3 (pH meter);

Morphological Notes

Observation Notes

Site Notes

BURDEKIN VALLE

Project Name: LBV

Project Code: Agency Name: B87 Observation ID: 1 LBV Site ID:

CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	рН	1:5 EC	Exchangeable Cations			Exchangeable		CEC		ECEC		ESP	
			Ca M	g	K	Na	Acidity						
m		dS/m				Cmol (+)/kg						%	
0 - 0.23	6.1H	0.03B											
0.23 - 0.53	7.2H	0.02B											
0.53 - 0.86	8.1H	0.02B											
0.86 - 1.42	8.9H	0.08B											
1.52 - 1.93	9.3H	0.11B											

Depth	CaCO3	Organic	Avail.	Total	tal Total	Total	Bulk	Particle		Size	Analysi	Analysis	
-		C	Р	Р	N	K	Density	G۷	CS	FS	Silt	Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%		•	
0 - 0.23			13C		0.05	5B		5	27C	44	13	14	
0.23 - 0.53								4	16C	28	12	45	
0.53 - 0.86								•	16C	_			
0.86 - 1.42									100	33	13	31	
1.52 - 1.93													

Depth COLE **Gravimetric/Volumetric Water Contents** K sat K unsat 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar g/g - m3/m3 Sat. 5 Bar 15 Bar mm/h m mm/h

0 - 0.23

0.23 - 0.53

0.53 - 0.86 0.86 - 1.42 1.52 - 1.93

LBV **Project Name:**

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

Laboratory Analyses Completed for this profile

12_NR_FE Total element - Fe(%) - Not recorded

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

Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Water soluble Chloride - Cl(%) - Not recordede 3_NR

4_NR

5_NR

7_NR Total nitrogen (%) - Not recorded 9_NR Available P (mg/kg) - Not recorded

Gravel (%) P10_GRAV

P10_NR_C Clay (%) - Not recorded

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