Project Name: IRV

Observation ID: 1 **Project Code:** LBV Site ID: **B44**

CSIRO Division of Soils (QLD) Agency Name:

Site Information

C.H. Thompson Locality: Desc. Bv:

60 metres Date Desc.: 06/09/50 Elevation: Map Ref.: Sheet No.: 8357 1:100000 Rainfall: 750 Northing/Long.: 147.4 Runoff: Very slow Easting/Lat.: -20.05 Drainage: Poorly drained

Geology

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

Substrate Material: Geol. Ref.: PI Ż Auger boring, 2 m deep, Slightly porous,

Unconsolidated material (unidentified)

Land Form

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

1-3%

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Calcic Subnatric Grey Sodosol **Principal Profile Form:** Dg1.32 **Great Soil Group: ASC Confidence:** Solodic soil

All necessary analytical data are available.

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

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

Mid Strata - Shrub, , Isolated plants. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus papuana, Grevillea striata

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology Α1 0 - 0.03 m Grev (10YR5/1-Moist): Loam: Massive grade of structure: Dry: Firm consistence: 2-10%. medium gravelly, 6-20mm, rounded, coarse fragments; Field pH 6.6 (pH meter); Sharp change to B2 Light grey (7.5YR7/0-Moist); ; Heavy clay; Weak grade of structure, Prismatic; Moderate grade of 0.04 - 0.18 m structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 2-10%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7 (pH meter); Gradual change to -R2 Grey (7.5YR5/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 0.18 - 0.3 m Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2%), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.5 (pH meter); Gradual change to -B2 0.3 - 0.61 m Dark grey (7.5YR4/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Gradual change to -B2 Dark grey (7.5YR4/0-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; 0.61 - 0.81 m Wet; Moderately plastic; Normal plasticity; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.8 (pH meter); Diffuse change to -**B**3 0.91 - 1.37 m Pale yellow (2.5Y7/4-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very

firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2%), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm),

Nodules; Field pH 7.6 (pH meter); Diffuse change to -

В3 1.52 - 1.98 m Pale yellow (5Y8/3-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moist; Very firm

consistence; 0-2%, fine gravelly, 2-6mm, rounded, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm),

Nodules: Field pH 7.1 (pH meter):

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Observation Notes

Site Notes

BURDEKIN VALLE

Project Name: LBV
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Laboratory Test Results:

Laboratory Test Results:												
Depth	рН			hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	E	CEC		SP
m		dS/m				Cmol (+)/kg				•	%
0 - 0.03 0.04 - 0.18 0.18 - 0.3	6.6H 7H 7.5H	0.02B 0.04B 0.09B	10.4K	11.8	0.26	2.5	4.2D		2	29.2E		
0.3 - 0.61	7.8H	0.28B	20.9K	19.5	0.3	7.1	1.2D			49E		
0.61 - 0.81	7.8H	0.46B	00.014	40.0	0.00	7.0	0.745			40.75		
0.91 - 1.37 1.52 - 1.98	7.6H 7.1H	0.46B 0.44B	22.2K	18.3	0.29	7.2	0.74D		2	48.7E		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle \$	Size A	Analysis	ì
		С	Р	Р	N	K	Density	G۷	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03 0.04 - 0.18 0.18 - 0.3 0.3 - 0.61 0.61 - 0.81		1.4E 0.61E	6C	0.006F	0.08			2 7 1	23C 14C 4C	40 26 14	17 17 25	18 42 55
0.91 - 1.37									5C	16	15	62
1.52 - 1.98												
Depth	COLE	COLE Gravimetric/Volumetric W					tents		K sa	t	K unsat	t
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15 I	3ar	mm/l	h	mm/h	
0 - 0.03												

0 - 0.03 0.04 - 0.18 0.18 - 0.3 0.3 - 0.61 0.61 - 0.81 0.91 - 1.37 1.52 - 1.98

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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 - meq per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_NA 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

2_LOI Loss on Ignition (%) 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 - CI(%) - Not recordede

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_GRAV Gravel (%)

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