**Final Report** Report Number: M19-11316-F-V1



Date Issued: 13 Aug 2019

**Elizabeth Macarthur Agricultural Institute** Woodbridge Rd Menangle

Our Ref: Your Ref:

M19-11316 **JESSICA** LOCK

Prev. Ref: **Laboratory Enquiries:** 

> **Invoice Enquiries:** 1800 675 623 1300 720 773

### LABORATORY REPORT

To: LLS NORTH COAST (LISMORE) Owner: **Property:**  NORTHERN RIVERS

79 CONWAY STREET LISMORE

2480 NSW AUSTRALIA Attn: JESSICA LOCK Fax: 02 6621 2928

Job Manager:

Erika Bunker

**General Mammals** 

Date Sampled: 31 Jul 2019 Date Sent: 31 Jul 2019

Marsupials

(kangaroos/koalas/wallabies/wombats)

Date Received:

WALLABY

1 Aug 2019

Submitter Subject: UNKNOWN AETIOLOGY

Samples Received: VARIOUS

**History** 

Job Type:

No. Sick: 0 Sex: Female No. at Risk: 0 No. Dead: 1 Age: (Juvenile)

Invoice payable by NSW Department of Primary Industries - Projects - RVO Contingency

#### Conclusion

Pulmonary congestion and haemorrhage. Cause of neurological signs not determined.

#### Comments

6 Aug 19: The lung is severely congested, with acute haemorrhage. There is some lymphoid depletion. No significant findings in heart, liver and kidney. Erika Bunker

7 Aug 19: The changes in the cerebral cortex are subtle and equivocal; they could be a post mortem change, or represent a degree of cerebral astrocytic oedema. Significance in this wallaby is uncertain. There were no inflammatory or necrotising lesions or protozoal forms in the brain suggestive of toxoplasmosis. Erika Bunker

9 Aug 19: No evidence of organisms suggestive of Babesia seen in red blood cells of kidney smear. Erika Bunker 12 Aug 19: EMC PCR and Eubenangee Virus PCR negative. Erika Bunker

Erika Bunker Veterinary Pathologist

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## **EMAI Virology**

Lab No.	Sample ID	Sample Desc	Viral PCR
0006	NO ID	Swab in PBGS	Negative for
		5 HEART	Eubenangee
			virus

# **Encephalomyocarditis Virus Real Time PCR**

		Analysis	Encephalomyocarditis Virus qRT-PCR
Lab No.	Sample ID	Sample Desc	
0002	NO ID	Swab in PBGS 1 LIVER	Negative
0003	NO ID	Swab in PBGS 2 LUNG	Negative
0006	NO ID	Swab in PBGS 5 HEART	Negative

# **EMAI** Histopathology

Lab No.	Sample ID	Sample Desc	Diff Quick Slide Examination
0021	NO ID	Smear 4 KIDNEY	see Histopathology report

### **EMAI Histopathology**

WALLABY; SLIDE 1; HEART

No significant findings.

**WALLABY; SLIDE 1; LUNG** 

There is severe congestion with haemorrhage and blood in airways.

WALLABY; SLIDE 1; LYMPH NODE

Germinal centres are prominent and appear somewhat depleted and sometimes hyalinised.

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### **WALLABY; SLIDE 2; LIVER**

There is congestion of periacinar sinusoids.

## **WALLABY; SLIDE 2; KIDNEY**

No significant findings.

Histopathology Report; Erika Bunker

6 August, 2019

#### **EMAI Histopathology**

#### WALLABY; SLIDE 3; CRANIAL BRAINSTEM (LEVEL THALAMUS) AND CEREBRUM

In the cerebrocortical grey matter, most prominent in the middle layer, are areas of mild vacuolation with increased perivascular and pericellular spaces and neuropil vacuoles; astrocytes often are noted adjacent to neurones or capillaries and appear swollen with vesicular nuclei.

## WALLABY; SLIDE 4; MEDULLA (OBEX)

No significant findings.

#### WALLABY; SLIDE 4; CAUDAL CEREBELLAR PEDUNCLES

No significant findings.

#### **WALLABY; SLIDE 4; MIDBRAIN**

No significant findings.

### WALLABY; SLIDE 5; CEREBRUM x2

In the cerebrocortical grey matter, most prominent in the middle layer, are areas of mild vacuolation with increased perivascular and pericellular spaces and neuropil vacuoles; astrocytes often are noted adjacent to neurones or capillaries and appear swollen with vesicular nuclei.

#### WALLABY; SLIDE 5; CEREBELLUM

Astrocytes in the Purkinje cell layer appear numerous and prominent. Histopathology Report; Erika Bunker

7 August, 2019

### **EMAI Histopathology**

#### WALLABY; KIDNEY IMPRESSION SMEAR (DIFF QUICK STAIN)

Good quality smear. No organisms consistent with Babesia detected in red blood cells.

Histopathology Report; Erika Bunker

9 August, 2019

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## **Copies**

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