

Algal bloom wildlife post-mortem report



Government
of South Australia

Department for
Environment and Water

Species – Long-nosed fur seal

Date collected – 15 December 2025

Location – Goolwa Beach

History relating to the animal

An adult female long-nosed fur seal (*Arctocephalus forsteri*) was found close to death at Goolwa beach and was euthanised on 15 December 2025.

Clinical examination

The animal was found moribund (close to death) and was euthanised.

Necropsy

The necropsy (looking at the whole body) revealed the animal was in poor body condition, weighing 13.6 kg and 1 m in length with a 450 mm body circumference. There were minimal post-mortem autolytic changes (decomposition of tissues after death). There was scant subcutaneous (under the skin), abdominal (inside the abdomen) and peri-renal (around the kidneys) fat. Multifocally (in multiple areas) the left and right lungs were dark red and depressed (sunken), with the abnormal areas clearly demarcated from normal lung tissue.

Tissues were collected for histopathology (looking at tissues under the microscope for more detailed information) and testing for *Mycobacterium tuberculosis* (MTb) and *Mycobacterium avium* (*M. avium*) complex organisms, *Brucella* species bacteria, pinniped morbillivirus, and for brevetoxins and other algal biotoxins (a possibility due to the algal bloom).

Histopathology

Samples from every major body system were examined under the microscope. Examination of the lung revealed a mild, multifocal (multiple areas), subacute (recent), fibrinous (thickening with protein from inflammation), neutrophilic, histiocytic (accumulation of these types of immune cells), bronchopneumonia (infection in the lungs and large airways) with mixed bacteria, along with interstitial pneumonia (inflammation between air sacs), pulmonary oedema (fluid in the lungs) and haemorrhage (bleeding).

Examination of the spleen revealed a focal (defined area), mild, acute to subacute (recent), necrotising (with cell death) bacterial splenitis (spleen infection). Examination of the liver revealed a mild, multifocal, subacute to chronic, lymphocytic, plasmacytic, neutrophilic periportal (around the portal vein) hepatitis (liver inflammation). The bronchial lymph node was reactive (enlarged).

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Bacteriology

Polymerase chain reaction (PCR) and bacterial culture of brain and lung tissues to test for *MTb* and *M. avium* complex organisms and *Brucella* species bacteria was negative.

Virology

PCR testing for pinniped morbillivirus was negative.

Brevetoxins

No samples were above the limits of reporting.

Other algal biotoxins

No samples were above the limits of reporting.

Summary

An adult female long-nosed fur seal was found close to death and was euthanised. Laboratory examination revealed multiple mild disease processes with chronic weight loss and lung inflammation, but the cause of the weight loss and severe illness could not be determined.

There was evidence of a mild lung infection, which likely contributed to the weight loss. The weight loss may also have led to reduced immunity and susceptibility to disease. Pinniped morbillivirus was ruled out as a cause of the lung infection. There was also fluid in the lungs, which was likely an agonal (at the time of death) process.

There were signs of mild inflammation and infection in other organs, including the spleen and liver, but these were considered unlikely to have been causing any significant illness in the animal. Testing for tuberculosis (*Mycobacterium tuberculosis* and *Mycobacterium avium* complex organisms) and brucellosis (*Brucella* species bacteria) were negative. Brevetoxins and other algal biotoxins were also not detected.

PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Wed 17/12/2025 3:00 PM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 17/12/25 15:30
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

NECROPSY REPORT

CLINICAL HISTORY

This is a summary of the clinical history from the request form;
The long nosed first seal was found moribund at Goolwa Beach and was humanely culled.

SAMPLES SUBMITTED

One dead subadult female Long nosed fur seal (*Arctocephalus forsteri*)

NECROPSY FINDINGS

The animal is in poor body condition and weighs 13.6kg. There are minimal post mortem autolytic changes. There is scant subcutaneous, abdominal and peri-renal fat. The animal is 1m long and approximately 450mm in circumference just caudal to the pectoral flippers.

There is a 5mm hole at the top of the head and extensive haemorrhage through the meninges and the brain parenchyma (consistent with culling by firearm).

Multifocally the left and right lungs are dark red and depressed. These areas are clearly demarcated from normal lung.

There is no ingesta in the stomach or intestines and a small amount of dark brown pasty faeces in the rectum. There are low numbers of ascarid worms in the stomach and small intestines.

GROSS SUMMARY

Probable bronchopneumonia

Chronic weight loss

SAMPLES COLLECTED & TESTING

Formalin fixed tissues will be processed for histopathology.

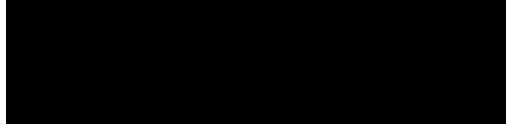
Analytical Services Tasmania will be contacted for a quote for biotoxin and brevetoxin testing of fresh liver, spleen, heart, lung, kidney, brain, faeces.

The bronchopneumonia contributed to morbidity. Does the CVO SA approve Pinniped morbillivirus as well as Mycobacterium sp. and Brucella sp. testing at ACDP ?

Do you approve the additional cost of testing lung by microbial culture



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Owner:

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GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No:



Lab No.:

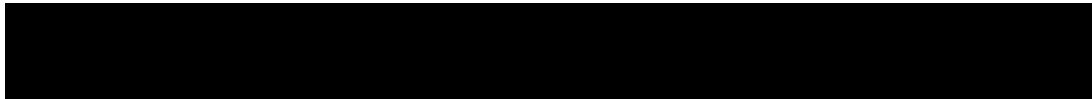


Samples tested as received

to assess for endemic pathogens such as Streptococcus sp. etc ?
Additional charges will apply.

COMMENTS

The bronchopneumonia may have contributed to the chronic weight loss or the chronic weight loss may have led to immunosuppression and secondary bronchopneumonia. The gross findings in the lung are suggestive of a bacterial pathogen such as Mycobacterium sp, Brucella sp, Streptococcus sp. / intercurrent viral pathogens such as Pinniped morbillivirus. For these reasons, testing for all these pathogens are recommended.



Specialist Veterinary Anatomic Pathologist



Validated by



CASE MANAGEMENT DETAILS

Case Managed by:

Case Management Requested by:



Case Management Requested on: 17/12/25

Case Details:

Long nose fur seal found moribund at Goolwa Beach on 15/12/2025 and on necropsy had bronchopneumonia.

PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Tue 30/12/2025 8:00 PM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 30/12/25 20:30
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

HISTOPATHOLOGY

REF: [REDACTED]

CLINICAL HISTORY

Moribund long-nose fur seal, euthanized by DEW. From Goolwa Beach on 15 December 2025.

With Victor Central Vets for collection.

MACROSCOPY

One pot received labelled '[REDACTED]' and organs listed below

A = x2 lungs

B = kidney + adrenal gland

C = heart + spleen

D = skeletal muscle + liver

E = bronchial lymph node

F - H = stomach, bladder, colon, ovary, pancreas, duodenum, ileum,
mesenteric lymph node

BRAIN

I - K = thalamus + hippocampus + parietal cortex

L - M = basal ganglia + frontal cortex
N = cerebellum
O = occipital cortex.
GK + Ed

MICROSCOPY

Lung: Multifocally alveolar spaces are expanded by oedema, fibrin, haemorrhage and low numbers of neutrophils and macrophages. Multifocally alveolar interstitium is expanded by low numbers of lymphocytes and plasma cells and there is widespread hyperaemia/congestion. The lumen of bronchi and bronchioles contain mucin admixed with mixed bacteria (predominantly short rod bacteria), low numbers of neutrophils and macrophages. (Mild, multifocal, subacute, fibrinous, neutrophilic, histiocytic, bronchopneumonia with mixed bacteria; mild, multifocal, subacute to chronic, lymphocytic, plasmacytic interstitial pneumonia; mild, multifocal, acute pulmonary oedema and haemorrhage)

Spleen: Focally there is effacement of the red pulp by lytic necrosis and large numbers of mixed bacteria, surrounded by lymphocytes and fewer neutrophils (short rod bacteria and large rod bacteria). The necrosis and bacterial aggregates are face less than 1% of the splenic parenchyma. (Focal, mild, acute to subacute, necrotizing bacterial splenitis)

[REDACTED]

Tested on 16/12/25
Reported on 30/12/25 20:30
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

Liver: Multifocally there are low numbers of lymphocytes, plasma cells and fewer neutrophils around portal areas. (Mild, multifocal, subacute to chronic, lymphocytic, plasmacytic, neutrophilic periportal hepatitis)

Bronchial lymph node: Diffusely the subcapsular, paracortical and medullary sinuses are expanded by low to moderate numbers of plasma cells, lymphocytes and low numbers of macrophages. There is mild cortical follicular hyperplasia. (Reactive lymph node)

Mild autolysis of elementary sections. Aside from these artefacts there are no other significant findings.

Brain: Focally the meninges are expanded by haemorrhage and there is multifocal haemorrhage within the neuropil. (Moderate, multifocal, acute, meningeal and brain haemorrhage)

Those tissues not described are unremarkable.

DIAGNOSIS

Lung: Mild, multifocal, subacute, fibrinous, neutrophilic, histiocytic, bronchopneumonia with mixed bacteria; mild, multifocal, subacute to chronic, lymphocytic, plasmacytic interstitial pneumonia; mild, multifocal, acute pulmonary oedema and haemorrhage

Spleen: Focal, mild, acute to subacute, necrotizing bacterial splenitis

Liver: Mild, multifocal, subacute to chronic, lymphocytic, plasmacytic, neutrophilic periportal hepatitis

Bronchial lymph node: Reactive lymph node

Brain: Moderate, multifocal, acute, meningeal and brain haemorrhage
(consistent with culling by firearm)

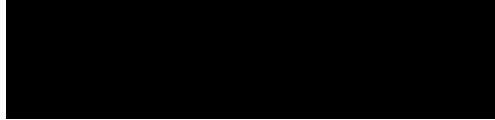
COMMENTS

There are multiple mild disease processes but no conclusive findings to determine the cause of severe morbidity and weight loss.

There is mild bronchopneumonia. In light of the mixed bacteria seen, microbiological culture will likely be unrewarding and is not recommended. The pulmonary oedema is likely an agonal process because there are no histological findings (for example, increased numbers of



Tested on 16/12/25
Reported on 30/12/25 20:30
Referred on 15/12/25 **by:**



Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No:



Lab No.:



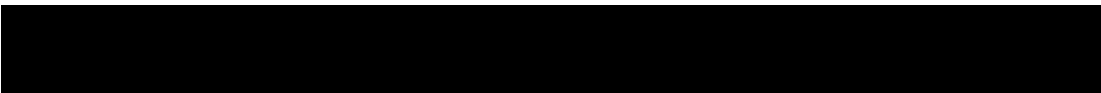
Samples tested as received

alveolar macrophages) to indicate it was of > 2-4 days duration.

In light of the interstitial pneumonia pinned morbillivirus testing is in progress. Does PIRSA approve Avian influenza testing at Gribbles and ACDP, in addition to the morbillivirus testing, to exclude Avian influenza as a contributing factor for the interstitial pneumonia ?

The splenitis is mild and is likely secondary to severe morbidity. There are mixed bacteria seen and for this reason microbiological cultures may not identify a primary pathogen. Nevertheless if culture is required, please contact the laboratory within the next 4-5 working days.

The mild periportal hepatitis is suggestive of a possible bacteraemia or retrograde gut microflora through the bile ducts. This is an incidental finding and would not have contributed to morbidity for this animal.



Specialist Veterinary Anatomic Pathologist



Validated by



PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Tue 30/12/2025 4:00 PM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 30/12/25 16:30
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

REFERRED TEST

Disease/Test : Brucella sp. PCR

Specimen Type: Brain & Lung

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of this service

This test was performed by: Australian Centre for Disease Preparedness (CSIRO)
NATA accreditation number: 13546

REFERRED TEST

Disease/Test : Cetacean Morbillivirus TaqMan PCR Assay

Specimen Type: Brain & Lung

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of
this service

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

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PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Wed 28/01/2026 10:00 AM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 28/01/26 10:30
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

REFERRED TEST

Disease/Test : Brucella species Isolation

RESULT : Brain - Brucella spp. was not isolated
Lung - Brucella spp. was not isolated

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Tue 17/02/2026 11:30 AM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 17/02/26 12:00
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

REFERRED TEST

Disease/Test : Mycobacterium Isolation

Specimen Type: Brain & Lung

RESULT : Mycobacterium sp. was not isolated in both samples

Comment : NATA accreditation does not cover the performance of this service. Cultures were incubated for 8 weeks.

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Tue 06/01/2026 11:30 AM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 06/01/26 12:00
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

REFERRED TEST

Disease/Test : Mycobacterium avium complex Taqman

Specimen Type: Brain & Lung

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of this service

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

REFERRED TEST

Disease/Test : Mycobacterium tuberculosis complex IS6110

Method : TaqMan Assay
Specimen Type: Brain & Lung

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of
this service

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

REFERRED TEST

Disease/Test : Pan-Mycobacterium Taqman
Specimen Type: Brain & Lung

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of
this service

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

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PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Tue 20/01/2026 3:00 PM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 20/01/26 15:30
Referred on 15/12/25 **by:**
DEW - MARINE
DEPT OF ENV WATER & NATURAL RE
GPO BOX 1047
ADELAIDE SA 5001

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

REFERRED TEST

Disease/Test : Morbillivirus - PCR

Specimen Type: Lung & Brain Tissue

RESULT : Negative for both samples.

Comment : NATA/RCPA accreditation does not cover the performance of this service

This test was performed by: Australian Centre for Disease Preparedness
(CSIRO)
NATA accreditation number: 13546

PATH RESULTS: LONG NOSE FUR SEAL, (Ma) [REDACTED]

From [REDACTED]

Date Fri 23/01/2026 4:30 PM

To [REDACTED]

[REDACTED]

Tested on 16/12/25
Reported on 23/01/26 17:00
Referred on 15/12/25 **by:** [REDACTED]

[REDACTED]

Owner:

LONG NOSE FUR SEAL
GOOLWA BEACH
GOOLWA 5214

Animal/s:

Marine Mammal

DOB: N/A

Collected: 15/12/25 00:25

Subm.No: [REDACTED]

Lab No.: [REDACTED]

Samples tested as received

ADDITIONAL COMMENTS 23/1/2026

SUMMARY DIAGNOSIS

No diagnosis concluded

Minor findings;

Lung: Mild, multifocal, subacute, fibrinous, neutrophilic, histiocytic, bronchopneumonia with mixed bacteria; mild, multifocal, subacute to chronic, lymphocytic, plasmacytic interstitial pneumonia; mild, multifocal, acute pulmonary oedema and haemorrhage

Spleen: Focal, mild, acute to subacute, necrotizing bacterial splenitis

Liver: Mild, multifocal, subacute to chronic, lymphocytic, plasmacytic, neutrophilic periportal hepatitis

SUMMARY COMMENTS

There are multiple mild disease processes but no conclusive findings to determine the cause of severe morbidity and weight loss.

Morphological diagnoses are provided because the cause for these changes are not identified by histopathology.

There is mild bronchopneumonia. In light of the mixed bacteria seen, microbiological culture will likely be unrewarding and is not recommended. The pulmonary oedema is likely an agonal process because there are no histological findings (for example, increased numbers of alveolar macrophages) to indicate it was of > 2-4 days duration. Mycobacterium sp. and Brucella sp. are excluded by PCR testing at ACDP (see SAN 25-04547)

Pinniped morbillivirus is excluded as a cause for the interstitial pneumonia (seen SAN 25-04547 from ACDP).

Biotoxin and brevetoxin testing are in progress.

23/1/2026

Brucella sp. is excluded by microbiological culture from the brain and lung at ACDP.

CERTIFICATE OF ANALYSIS

Customer: [REDACTED]
Address: [REDACTED]

Submission Description: [REDACTED] Seal
Sample Received Date: 11/03/2026
Contract Number: [REDACTED]
Client Order Number: [REDACTED]

*Sample(s) analysed as received. Sampling date and time data supplied by the client. The document shall not be reproduced except in full.
Additional information relating to this submission can be found in the sample receipt notification.
This report supersedes any previous reports with this submission number.
Many tests specify a holding time which gives the recommended timeframe by which a sample should be preserved/extracted and/or analysed after the sample is taken.
Holding time information can be found on the AST website <https://analyticalservices.tas.gov.au/our-services/containers-samples-and-submissions>.
Whilst every effort is made to analyse samples within these timeframes, situations can occur where this is not possible.
Where a test has been conducted outside the recommended sample holding time this should be taken into account when interpreting results.*

The results in this report were authorised by:

Name	Position
[REDACTED]	Section Head - Organic Chemistry

Test Information:

Method ID	Test Description	Date Commenced:
3411	Lipophilic Toxins in Shellfish by LC-MS/MS	22-04-2026
3411A	Brevetoxins in Shellfish by LC-MS/MS	17-04-2026
3416	PST in Biota by LC-MS/MS (Boundy Method)	22-04-2026

Chemistry Test Results (Biota - Food)			LIVER	BRAIN	LUNG	KIDNEY	HEART	SPLEEN	FAECES
Sample Description									
Sampled Date/ Time			17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00
Method ID	Analyte	Units	440025	440026	440027	440028	440029	440030	440031
3411	AZA1	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	AZA2	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	AZA3	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Domoic Acid	mg/kg WMB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	DTX1 Free	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	DTX1 Total	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	DTX2 Free	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	DTX2 Total	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	GYM	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Homo-YTX	mg/kg WMB	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	OA Free	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	OA Total	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	PnTx-G	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	PTX2	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SPX1	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Total DST	OA eq. mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	YTX	mg/kg WMB	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3411A	Brevetoxin 1	mg/kg WMB	<0.10*	<0.10*	<0.10*	<0.10*	<0.10*	<0.10*	<0.10*
	Brevetoxin 2	mg/kg WMB	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	Brevetoxin 3	mg/kg WMB	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
3416	C1	STX.2HCl eq. mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	C2	STX.2HCl eq. mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C3	STX.2HCl eq. mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	C4	STX.2HCl eq. mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	dcGTx1	STX.2HCl eq. mg/kg	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*
	dcGTx2	STX.2HCl eq. mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	dcGTx3	STX.2HCl eq. mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	dcGTx4	STX.2HCl eq. mg/kg	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*	<0.02*

* NATA accreditation does not cover this result



Chemistry Test Results (Biota - Food)			Sample Description	LIVER	BRAIN	LUNG	KIDNEY	HEART	SPLEEN	FAECES
			Sampled Date/ Time	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00	17/12/25 0:00
Method ID	Analyte	Units		440025	440026	440027	440028	440029	440030	440031
3416	dcNEO	STX.2HCl eq. mg/kg		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	dcSTX	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	doSTX	STX.2HCl eq. mg/kg		<0.01*	<0.01*	<0.01*	<0.01*	<0.01*	<0.01*	<0.01*
	GTX1	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	GTX2	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	GTX3	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	GTX4	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	GTX5	STX.2HCl eq. mg/kg		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	GTX6	STX.2HCl eq. mg/kg		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	NEO	STX.2HCl eq. mg/kg		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	STX	STX.2HCl eq. mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Total PST	STX.2HCl eq. mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

* NATA accreditation does not cover this result