

**From:** Jessica Comolli <jcomolli@msq.cc>  
**Subject:** MMDS change notification  
**To:** NIMM Inventory - NOAA Service Account  
**Cc:** Christa Barrett; Danay Voiles  
**Sent:** September 14, 2023 11:15 AM (UTC-04:00)  
**Attached:** Toki MMDS.PDF, TOKI\_MMDS\_updated.pdf

Good morning-

Attached is the updated MMDS for our Orca who passed away on 8-18-23. Please note I have attached both the older form and a new version as I was unable to edit the original. Please don't hesitate to let me know if you have any questions.

Sincerely

**Jessica Comolli, DVM, MS**

Director of Animal Health



4400 Rickenbacker Causeway  
Miami, Florida 33149  
[jcomolli@msq.cc](mailto:jcomolli@msq.cc)



**Marine Mammal Data Sheet (MMDS)****NOTES:**

The Marine Mammal Protection Act of 1972, as amended (MMPA) (16 U.S.C. 1361 et seq.) requires that persons holding marine mammals submit certain information to the National Marine Fisheries Service (NMFS). The MMPA requires that NMFS maintain an inventory of all marine mammals held for public display purposes and scientific research/enhancement (i.e., all marine mammals held captive except for those in captivity before December 21, 1972). In addition, the MMPA requires that NMFS be given advance notice 15 days prior to the transfer/transport of any marine mammal. To ensure compliance with these and related MMPA requirements, NMFS recommends that persons holding marine mammals in captivity use this Marine Mammal Data Sheet (MMDS) to submit inventory information regarding their captive marine mammals to NMFS. Use of this form will ensure that the MMPA required information is submitted in a consistent manner and that the NMFS marine mammal inventory is accurate and up-to-date.

Marine Mammal Data Sheets should be used when submitting information to NMFS in compliance with MMPA requirements applicable to persons holding marine mammals, including notifications of any additions/changes to your marine mammal inventory due to:

- o Birth, Death, Transfer/Transport
- o Retention or Transfer of Rehabilitated Beached and Stranded Marine Mammals (Authorization or Permit)
- o Wild Capture, Import, Reintroduction to the Wild, including release or escape (Permit)
- o Other (Corrections, etc.)

The animal-specific information in Section II will not change, whereas data in Sections I, III and/or IV will change with transfers/transports (changes of custody and/or facility/location). In accordance with MMPA requirements, NMFS requests notification of any change in custody or facility/location, including captive births and deaths. A copy of the Marine Mammal Inventory Report Summary (MMIRS) may be provided periodically and may be requested at any time by contacting the Permits, Conservation and Education Division at the address listed below.

All permit documentation including reports and inventory information required herein, is subject to the Freedom of Information Act (FOIA) with personal or sensitive information that is subject to the Privacy Act redacted when released under FOIA.

**Marine Mammal Transfer/Transport Notifications**

NMFS recommends that:

- 1 1. Owners notify NMFS of proposed transfers/transports by completing a Marine Mammal Transfer/Transport Notification (MMTTN) form, forwarding it to the Receiver for signature and submitting it to NMFS. It is not necessary to submit the MMDS for the animals proposed to be transferred/transported, but sufficient information must be included on the MMTTN to identify the animal(s).
- 2 2. The MMTTN must be received by NMFS at least 15 days prior to the actual transfer/transport date. Should you need to transfer/transport an animal before the required 15 day notification, please contact NMFS regarding an emergency waiver.
- 3 3. NMFS will reply with an acknowledgement letter and MMDS(s) to be updated upon receipt of the animal(s). The transfer/transport should occur within 60 days after initial submission of the MMTTN. If an extension is necessary, please contact NMFS.
- 4 4. At any time within 30 days of the transfer/transport, the Owner should forward to NMFS the updated MMDS for each animal actually transferred/transported (i.e. Section I and, as necessary, Section III to verify receipt of the animal(s)).

**Beached and Stranded Marine Mammals - Retention or Transport**

The retention or transport/retention of rehabilitated beached and stranded marine mammals requires a permit or written authorization under the MMPA. A permit is required to obtain such marine mammals for purposes of scientific research or enhancing the survival or recovery of species or stocks, or to retain or obtain such marine mammals for public display purposes where such animals have been determined releasable. Where such marine mammals have been determined non-releasable, NMFS authorization is required to retain or obtain them for public display purposes. Please contact the Permits, Conservation and Education Division at the number or address below for information on submitting such a permit application or authorization request.

**QUESTIONS?** If you need assistance completing this form please contact the Permits Division at (301-427-8401) or write to us at:

Permits, Conservation and Education Division -F/PR1 Office of Protected Resources Or by facsimile National Marine Fisheries Service at (301) 713-0376 1315 East West Highway, Room 13705 Silver Spring, MD 20910

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, search existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information to complete this form. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden, to the Office of Protected Resources, National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless the collection of information displays a currently valid Office of Management and Budget (OMB) Control Number.

**MARINE MAMMAL DATA SHEET (MMDS)**  
**for Reporting Captive Births or a Death/Release/Escape**

OMB No. 0648-0084  
Expires 11/30/2023  
NOAA FORM 89-882

**I. Reporting a Captive Birth:**

**NOAA Identification No.** NOA0003420

**Sex**  Male  Female  Unknown

**Species Common Name** \_\_\_Killer Whale; Orca\_\_\_

**Birth Date** \_\_\_01-01-1967\_\_\_

**Birth Date Certainty**  Actual  Estimated

**Owner (Person or other Entity With Custody [i.e., ownership])** MS Leisure Company, Inc. dba Miami Seaquarium\_

**Facility (Physical location of the animal; if different from Owner)** \_\_\_Miami Seaquarium\_\_\_

**Animal Identification No.** \_\_\_Oo6701\_\_\_

or

**Animal Name** \_\_\_Tokitae (Lolita)\_\_\_

**Purpose**  Public Display  Scientific Research  Enhancement  Research and Enhancement  Rehabilitation

Department of Defense; choose one of the following:  Active  Retired  Breeding Loan

**Permit No.** \_\_\_\_\_ (as applicable)

**II.** This Section is intentionally left blank

**III. Reporting a Disposition (Death or Release/Escape):**

Note: If you have a previously provided MMDS specific to your marine mammal, please use that MMDS to report the disposition of your marine mammal. You may request a MMDS for your marine mammal by contacting us via any of the contact options provided on page 2.

**NOAA Identification No.** \_\_\_NOA0003420\_\_\_

**Animal Identification Number or Animal Name** \_\_\_Tokitae (Lolita)\_\_\_

**A. Death Date** \_\_\_08-18-23\_\_\_

**Cause of Death** \_\_\_Renal Failure\_\_\_

**B. Release Date** \_\_\_\_\_

**Permit No** \_\_\_\_\_ OR  Unauthorized release/escape

**Geographic Location** \_\_\_\_\_ (as applicable) Lat: / Lon:

**Tag number or description of other identifying markings:** \_\_\_\_\_

**Marine Mammal Data Sheet (MMDS) Instructions and Notes**

In accordance with the Marine Mammal Protection Act of 1972, as amended (MMPA) (16 U.S.C. 1361 *et seq.*), the National Marine Fisheries Service (NMFS) is required to establish and maintain an inventory of marine mammals under its jurisdiction (cetaceans and pinnipeds, except walrus) that are held in permanent captivity within the United States for public display. Animals held for scientific research or/and enhancement are also reported as per requirements of the permits, and animals held for national defense purposes have been voluntarily submitted to the inventory by the Navy.

The MMPA requires marine mammal owners and facilities to report when animals enter (i.e., births, transfers/transports) and leave their collections (i.e., death, release, transfer/transport). Inventory information submitted via this form will be entered into the National Inventory of Marine Mammals (NIMM).

- Births must be reported within 30 days after the date of the birth.
- Deaths should be reported within 30 day with the date and cause of death. If the cause of death has not been determined at the time of reporting, you may indicated that results are pending and update the cause of death once the results have been received.

Documentation required for this information collection is subject to the Freedom of Information Act (FOIA). Personal or sensitive information that is subject to the Privacy Act will be redacted under FOIA.

**QUESTIONS?**

For additional information regarding marine mammal inventory reporting requirements under the MMPA, please visit our [website](#).

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- a. Email ([NIMM.Inventory@noaa.gov](mailto:NIMM.Inventory@noaa.gov));
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**Table 1. Data dictionary for MMDS fields.**

<b>MMDS Field</b>	<b>Definition</b>
NOAA Identification Number	The NOAA-assigned unique identification number (NOAXXXXXXX) that stays with the animal for all time
Sex	The sex of the subject animal
Species Common Name	The common name of the species
Birth Date	The actual or estimated birth date of the animal
Birth Date Certainty	Identifying the birth date as actual or estimated
Owner	Person or institution with legal custody (ownership) of the animal
Facility	Name of the physical location (institution) where the animal is held
Animal Identification Number	ID Number assigned by the Owner or Facility (only ID or name is required)
Animal Name	Name assigned by the Owner or Facility (only ID or name is required)
Purpose	The purpose or legal authority under Section 104 for which a marine mammal is being held (Public Display, Scientific Research, Enhancement, Rehabilitation (e.g. non-releasables), or Department of Defense)
Permit No.	NMFS permit number associated with a birth (if applicable)
Death Date	Date the animal died
Cause of Death	Primary cause of death of the animal
Release Date	Date the animal was released or escaped (if applicable)
Permit No.	NMFS Permit Number associated with a release (if applicable)
Unauthorized release/escape	Identifies whether the release was authorized under a permit or not
Geographic Location	General description of the geographic location associated with the release/escape of an animal; optional field
Latitude and Longitude Degrees	Identifies DMS location associated with the release/escape of an animal; optional field
Tag number or Description of other identifying markings	Tag Number or Description of an animal that has been released/escaped; optional field

**From:** NIMM Inventory - NOAA Service Account <nimm.inventory@noaa.gov>  
**Subject:** Fwd: MMDS change notification  
**To:** Amy Sloan - NOAA Federal; McKinnie, Carolyn - APHIS; Jennifer Skidmore - NOAA Federal; Courtney Smith - NOAA Affiliate  
**Sent:** September 18, 2023 2:23 PM (UTC-04:00)  
**Attached:** Toki MMDS.PDF, TOKI\_MMDS\_updated.pdf

FYI - Miami Seaquarium submitted their final inventory reporting for Toki. They reported her Cause of Death as 'Renal Failure'.

Courtney

----- Forwarded message -----

From: **Jessica Comolli** <jcomolli@msq.cc>  
Date: Thu, Sep 14, 2023 at 11:18 AM  
Subject: MMDS change notification  
To: NIMM Inventory - NOAA Service Account <[NIMM.inventory@noaa.gov](mailto:NIMM.inventory@noaa.gov)>  
Cc: Christa Barrett <[associatevet@msq.cc](mailto:associatevet@msq.cc)>, Danay Voiles <[dvoiles@msq.cc](mailto:dvoiles@msq.cc)>

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Director of Animal Health



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Miami, Florida 33149  
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**Jennifer Skidmore and Courtney Smith, Ph.D.**

*Administrators*

**[National Inventory of Marine Mammals \(NIMM\)](#)**

NOAA Fisheries, Office of Protected Resources

Permits and Conservation Division

Phone: 301-427-8401

Fax: 301-713-0376

Contact: [jennifer.skidmore@noaa.gov](mailto:jennifer.skidmore@noaa.gov)

Contact: [courtney.smith@noaa.gov](mailto:courtney.smith@noaa.gov)





## Marine Mammal Data Sheet (MMDS)

## NOTES:

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OMB No. 0648-0084  
Expires 11/30/2023  
NOAA FORM 89-882

**I. Reporting a Captive Birth:**

**NOAA Identification No.** NOA0003420

**Sex**  Male  Female  Unknown

**Species Common Name** \_\_\_Killer Whale; Orca\_\_\_

**Birth Date** \_\_\_01-01-1967\_\_\_

**Birth Date Certainty**  Actual  Estimated

**Owner (Person or other Entity With Custody [i.e., ownership])** MS Leisure Company, Inc. dba Miami Seaquarium\_

**Facility (Physical location of the animal; if different from Owner)** \_\_\_Miami Seaquarium\_\_\_

**Animal Identification No.** \_\_\_Oo6701\_\_\_

**or**

**Animal Name** \_\_\_Tokitae (Lolita)\_\_\_

**Purpose**  Public Display  Scientific Research  Enhancement  Research and Enhancement  Rehabilitation

Department of Defense; choose one of the following:  Active  Retired  Breeding Loan

**Permit No.** \_\_\_\_\_ (as applicable)

**II.** This Section is intentionally left blank

**III. Reporting a Disposition (Death or Release/Escape):**

Note: If you have a previously provided MMDS specific to your marine mammal, please use that MMDS to report the disposition of your marine mammal. You may request a MMDS for your marine mammal by contacting us via any of the contact options provided on page 2.

**NOAA Identification No.** \_\_\_NOA0003420\_\_\_

**Animal Identification Number or Animal Name** \_\_\_Tokitae (Lolita)\_\_\_

**A. Death Date** \_\_\_08-18-23\_\_\_

**Cause of Death** \_\_\_Renal Failure\_\_\_

**B. Release Date** \_\_\_\_\_

**Permit No** \_\_\_\_\_ OR  Unauthorized release/escape

**Geographic Location** \_\_\_\_\_ (as applicable) **Lat:** / **Lon:**

**Tag number or description of other identifying markings:** \_\_\_\_\_

**Marine Mammal Data Sheet (MMDS) Instructions and Notes**

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**Table 1. Data dictionary for MMDS fields.**

<b>MMDS Field</b>	<b>Definition</b>
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Facility	Name of the physical location (institution) where the animal is held
Animal Identification Number	ID Number assigned by the Owner or Facility (only ID or name is required)
Animal Name	Name assigned by the Owner or Facility (only ID or name is required)
Purpose	The purpose or legal authority under Section 104 for which a marine mammal is being held (Public Display, Scientific Research, Enhancement, Rehabilitation (e.g. non-releasables), or Department of Defense)
Permit No.	NMFS permit number associated with a birth (if applicable)
Death Date	Date the animal died
Cause of Death	Primary cause of death of the animal
Release Date	Date the animal was released or escaped (if applicable)
Permit No.	NMFS Permit Number associated with a release (if applicable)
Unauthorized release/escape	Identifies whether the release was authorized under a permit or not
Geographic Location	General description of the geographic location associated with the release/escape of an animal; optional field
Latitude and Longitude Degrees	Identifies DMS location associated with the release/escape of an animal; optional field
Tag number or Description of other identifying markings	Tag Number or Description of an animal that has been released/escaped; optional field

**From:** NIMM Inventory - NOAA Service Account <nimm.inventory@noaa.gov>  
**Subject:** Re: MMDS change notification  
**To:** Jessica Comolli  
**Cc:** Christa Barrett; Danay Voiles; Amy Sloan - NOAA Federal; McKinnie, Carolyn - APHIS  
**Sent:** October 11, 2023 10:49 AM (UTC-04:00)  
**Attached:** Cause of Death table.docx, NOA0003420\_MMDS\_09212023.pdf

Dear Dr. Comolli,

Thank you for notifying us of the change concerning the marine mammals in Miami Seaquarium's custody. The National Inventory of Marine Mammals (NIMM) database has been updated with the death of one killer whale (*Orcinus orca*), NOA0003420/MSOo6701/"Tokitae". Attached for your files is an updated Marine Mammal Data Sheet for this animal. Note that the cause of death is recorded in NIMM as 'Kidney Disease (Renal failure)'. Please let us know if this cause of death is inaccurate. Attached is a table of cause-of-death categories for your reference.

If you have any questions regarding the NIMM, reporting requirements, or would like to request inventory information, please contact our Office via return email or by phone (301) 427-8401.

Sincerely,  
Courtney

On Thu, Sep 14, 2023 at 11:18 AM Jessica Comolli <[jcomolli@msq.cc](mailto:jcomolli@msq.cc)> wrote:

Good morning-

Attached is the updated MMDS for our Orca who passed away on 8-18-23. Please note I have attached both the older form and a new version as I was unable to edit the original. Please don't hesitate to let me know if you have any questions.

Sincerely

**Jessica Comolli, DVM, MS**  
Director of Animal Health



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--

**Jennifer Skidmore and Courtney Smith, Ph.D.**

*Administrators*

**[National Inventory of Marine Mammals \(NIMM\)](#)**

NOAA Fisheries, Office of Protected Resources

Permits and Conservation Division

Phone: 301-427-8401

Fax: 301-713-0376

Contact: [jennifer.skidmore@noaa.gov](mailto:jennifer.skidmore@noaa.gov)

Contact: [courtney.smith@noaa.gov](mailto:courtney.smith@noaa.gov)

**Table 1. Cause of Death categories**

Abortion/ Premature/ Stillbirth	A pregnancy loss that results in the expulsion of a fetus. This category also includes the loss of an offspring that may take a few breaths, but dies within the first 24 hours
Anesthetic/Sedation Death	Animal died as a result of anesthesia or sedation - provide reason for anesthesia / sedation in Death comments
Bone Disease	Primary cause of Death was a bone disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Cancer/ Abnormal Growth	Animal died as a result of a cancer/abnormal tissue growth - provide more detail in Death comments
Congenital Disease/ Disorder	Primary cause of Death was congenital disease or disorder – provide more detail in Death comments
Drowning	Animal died as a result of drowning - provide more detail in Death comments
Euthanasia	When euthanasia is listed as the cause of Death, please provide additional information in the Death comments regarding the circumstances for euthanasia.
Foreign Body Ingestion/Impaction	Animal died as a result of ingesting a foreign body or an impaction - provide more detail in Death comments
Gastro-intestinal Disease	Primary cause of Death was GI disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Geriatric/Age-related Death	Animal died of geriatric or age-related issues (only use if no other categories are applicable) - provide more detail in Death comments, if available
Heart Disease	Primary cause of Death was heart disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Infection-Systemic	Primary cause of Death is an infection of the blood stream that is unrelated to any of the other categories
Kidney Disease	Primary cause of Death was kidney disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Liver Disease	Primary cause of Death was liver disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of death.
Lung Disease	Primary cause of Death was lung disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death.
Malnutrition	Animal died of malnutrition - provide more detail in Death comments
Perinatal/Neonatal Death	Animal experienced a perinatal/neonatal Death (greater than 24 hours and 6 months), only use if no other categories are applicable; includes failure to thrive
Neurologic Disease	Primary cause of Death was neurologic disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death.
Other	Cause of Death is something else and is known, including pregnancy complications, failure to thrive beyond neonate stage (add notes to Death comments field)
Toxin	Animal died of a toxin - provide more detail in Death comments, if available
Trauma	Animal died of trauma - provide more detail in Death comments
Undetermined	Cause of Death cannot be determined (use Death comments to explain)



**From:** NIMM Inventory - NOAA Service Account <nimm.inventory@noaa.gov>  
**Subject:** Re: MMDS change notification  
**To:** Jessica Comolli  
**Cc:** Christa Barrett; Danay Voiles; Amy Sloan - NOAA Federal; McKinnie, Carolyn - APHIS  
**Sent:** October 19, 2023 9:26 AM (UTC-04:00)  
**Attached:** Cause of Death table.docx

Dear Dr. Comolli,

We're reaching out in response to Miami Seaquarium's release, on October 17, 2023, of the pathology executive summary from Tokitae's necropsy on its [website](#). We note that Dr. Judy St. Leger's assessment, based on gross and histologic exams and other post-mortem findings, is that Tokitae's cause of death was due to a progression of multiple chronic conditions with "acute and chronic moderate multifocal bronchointerstitial pneumonia" listed as primary and "acute and chronic moderate multifocal renal degeneration" as secondary, followed by "chronic moderate multifocal cardiac valvular degeneration and endocarditis."

In light of these pathology results, would you like to update Tokitae's primary cause of death that is available to the public in the National Inventory of Marine Mammals (NIMM)? Attached is the table of primary cause-of-death categories programmed in NIMM for your reference. Any additional information you provide will also be included in the inventory comments for Tokitae and will be reflected on the MMDS form and inventory summary report.

Sincerely,  
Courtney

On Wed, Oct 11, 2023 at 10:49 AM NIMM Inventory - NOAA Service Account <[nimm.inventory@noaa.gov](mailto:nimm.inventory@noaa.gov)> wrote:

Dear Dr. Comolli,

Thank you for notifying us of the change concerning the marine mammals in Miami Seaquarium's custody. The National Inventory of Marine Mammals (NIMM) database has been updated with the death of one killer whale (*Orcinus orca*), NOA0003420/MSOo6701/"Tokitae". Attached for your files is an updated Marine Mammal Data Sheet for this animal. Note that the cause of death is recorded in NIMM as 'Kidney Disease (Renal failure)'. Please let us know if this cause of death is inaccurate. Attached is a table of cause-of-death categories for your reference.

If you have any questions regarding the NIMM, reporting requirements, or would like to request inventory information, please contact our Office via return email or by phone (301) 427-8401.

Sincerely,  
Courtney

On Thu, Sep 14, 2023 at 11:18 AM Jessica Comolli <[jcomolli@msq.cc](mailto:jcomolli@msq.cc)> wrote:

Good morning-

Attached is the updated MMDS for our Orca who passed away on 8-18-23. Please note I have attached both the older form and a new version as I was unable to edit the original. Please don't hesitate to let me know if you have any questions.

Sincerely

**Jessica Comolli, DVM, MS**  
Director of Animal Health





4400 Rickenbacker Causeway  
Miami, Florida 33149  
[jcomolli@msq.cc](mailto:jcomolli@msq.cc)

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**Jennifer Skidmore and Courtney Smith, Ph.D.**  
*Administrators*

**[National Inventory of Marine Mammals \(NIMM\)](#)**

NOAA Fisheries, Office of Protected Resources  
Permits and Conservation Division

Phone: 301-427-8401

Fax: 301-713-0376

Contact: [jennifer.skidmore@noaa.gov](mailto:jennifer.skidmore@noaa.gov)

Contact: [courtney.smith@noaa.gov](mailto:courtney.smith@noaa.gov)

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**Table 1. Cause of Death categories**

Abortion/ Premature/ Stillbirth	A pregnancy loss that results in the expulsion of a fetus. This category also includes the loss of an offspring that may take a few breaths, but dies within the first 24 hours
Anesthetic/Sedation Death	Animal died as a result of anesthesia or sedation - provide reason for anesthesia / sedation in Death comments
Bone Disease	Primary cause of Death was a bone disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Cancer/ Abnormal Growth	Animal died as a result of a cancer/abnormal tissue growth - provide more detail in Death comments
Congenital Disease/ Disorder	Primary cause of Death was congenital disease or disorder – provide more detail in Death comments
Drowning	Animal died as a result of drowning - provide more detail in Death comments
Euthanasia	When euthanasia is listed as the cause of Death, please provide additional information in the Death comments regarding the circumstances for euthanasia.
Foreign Body Ingestion/Impaction	Animal died as a result of ingesting a foreign body or an impaction - provide more detail in Death comments
Gastro-intestinal Disease	Primary cause of Death was GI disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Geriatric/Age-related Death	Animal died of geriatric or age-related issues (only use if no other categories are applicable) - provide more detail in Death comments, if available
Heart Disease	Primary cause of Death was heart disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Infection-Systemic	Primary cause of Death is an infection of the blood stream that is unrelated to any of the other categories
Kidney Disease	Primary cause of Death was kidney disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death
Liver Disease	Primary cause of Death was liver disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of death.
Lung Disease	Primary cause of Death was lung disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death.
Malnutrition	Animal died of malnutrition - provide more detail in Death comments
Perinatal/Neonatal Death	Animal experienced a perinatal/neonatal Death (greater than 24 hours and 6 months), only use if no other categories are applicable; includes failure to thrive
Neurologic Disease	Primary cause of Death was neurologic disease - provide more detail (in Death comments) such as if the disease was infectious (fungal, bacterial, viral, parasitic/protozoal) or other notes relevant to the cause of Death.
Other	Cause of Death is something else and is known, including pregnancy complications, failure to thrive beyond neonate stage (add notes to Death comments field)
Toxin	Animal died of a toxin - provide more detail in Death comments, if available
Trauma	Animal died of trauma - provide more detail in Death comments
Undetermined	Cause of Death cannot be determined (use Death comments to explain)

**From:** Jessica Comolli <jcomolli@msq.cc>  
**Subject:** Re: MMDS change notification  
**To:** NIMM Inventory - NOAA Service Account  
**Cc:** Christa Barrett; Danay Voiles; Amy Sloan - NOAA Federal; McKinnie, Carolyn - APHIS; Guillermo J. Sánchez Contreras  
**Sent:** October 19, 2023 7:19 PM (UTC-04:00)

Hello Courtney- thank you for reaching out to me. The top 3 post-mortem findings are indicated in bold, but do not indicate which disease process is primary. You will find at the bottom of the document the following statement listed under "cause of death": "Death due to progression of multiple chronic conditions including renal disease and pneumonia"

Due to her clinical presentation and blood biochemical findings at the time of death, I would still recommend keeping the primary cause as renal failure. However, as she had multiple conditions, you can include the additional primary findings (pulmonary and cardiac disease) within the inventory comments. I hope this clarifies the information for you. Feel free to reach out to me if you have any additional questions.

**Jessica Comolli, DVM, MS**  
Director of Animal Health



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[jcomolli@msq.cc](mailto:jcomolli@msq.cc)

On Thu, Oct 19, 2023 at 10:01 AM NIMM Inventory - NOAA Service Account <[nimm.inventory@noaa.gov](mailto:nimm.inventory@noaa.gov)> wrote:

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