

KSHCP Participant Annual Report - Base Form

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| Reporting Year | 2023 | Participant Name | Hawaii Department of Transportation | | |
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| Item # | Relevant Requirement | Information Required to be Reported | | | |
|--------|--|--|--|---|--|
| 1 | KSHCP Section 6.6.1.2a, ITP Section M.i. (N.i), ITL Section II.I.1 | Facility Name, Facility Type and Location: Nawiliwili Harbor, commercial maritime port facilities, Lihue, Hawaii | Facility Owner: State of Hawaii, Department of Transportation Harbors Division | Contact Information: (name, phone, email) Robert Cecconi, Kauai Harbors District Manager (Acting) Ph: 808-241-3756, Email: Robert.A.Cecconi@hawaii.gov and Chris Takeno, Environmental Program Manager Ph: 808-586-2504, Email: Chris.Takeno@hawaii.gov | |

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| 2 | ITP Section M (N)/ITL Section II.J | ITP Number TE74138D-0 | ITL Number ITL-30 | |
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| 3 | KSHCP Section 6.6.2.2(1) | List permitted incidental take by species for this facility (lethal / non-lethal) | | |
| | | 13 / 48 | 0 / 0 | Band-rumped Storm Petrel |
| | | 2 / 6 | 0 | Green Sea Turtle |
| | | Newell's Shearwater | | |
| | | Hawaiian Petrel | | |

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| 4 | ITP Section J/ITL Section II.D | 2023 Annual Lethal and Non-lethal Take calculated using the methodology described in the KSHCP | | |
| | | Nonlethal Take | | |
| | | 7.04 | 0 | Band-rumped Storm Petrel |
| | | 0 | 0 | Green Sea Turtle |
| | | Newell's Shearwater | | |
| | | Hawaiian Petrel | | |
| | | Lethal Take | | |
| | | 1.85 | 0 | Band-rumped Storm Petrel |
| | | 0 | 0 | Green Sea Turtle |
| | | Newell's Shearwater | | |
| | | Hawaiian Petrel | | |
| | | X | Check here if additional information provided on Addendum Sheet. | |
| | | Please see Addendum Sheet 1, Take Calculations | | |

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| 5 | KSHCP Section 6.6.1.2b, ITP Section M.ii. (N.ii), ITL Section II.I.2. | Summarize any proposed changes to the facility with the potential to affect the Covered Species. | There are no current or proposed changes to the facility that would potentially affect the covered seabirds. | |
| | | Check here if additional information provided on Addendum Sheet. | | |

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| 6 | KSHCP Section 6.6.1.2c, ITP Section M.iii (N.iii), ITL Section II.I.3. | Identify any changes to facility management/ownership or other key personnel involved in the KSHCP. | In his official capacity, Mr. Jade Butay executed both the ITP and the ITL on behalf of HDOT. Mr. Ed Sniffen should now be listed as the Principal Officer on the ITP and the ITL. | |
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| 7 | KSHCP Section 6.6.1.2d, ITP Section M.iv (N.iv), ITL Section II.I.4. | Describe any requested changes to minimization efforts conducted at the facility and the reasons for the requested change. | There are no requested changes to the minimization efforts that are in place at Nawiliwili Harbor. | |
| | | Check here if additional information provided on Addendum Sheet. | | |

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| 8 | KSHCP Section 6.6.1.2e.i, ITP Section M.v.1 (N.v.1), ITL Section II.I.5.a | Provide map or description of search route(s) used for conducting searches. | Link: | |
| | | X | Check here if map(s) attached or linked. | |
| | | Please see Appendix 1, Map Showing Search Routes Followed | | |

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| 9 | KSHCP Section 6.6.1.2.e.ii, ITP Section M.v.2 (N.v.2), ITL Section II.I.5.b. | Describe the frequency and timing of searches conducted at this facility | Searches were conducted twice each day at Nawiliwili Harbor in 2023 as outlined and prescribed in the KSHCP and HDOT's Participant Inclusion Plan. These surveys were performed each night within 3-4 hours after sundown and then again within 1 hour of sunrise, on consecutive days beginning on September 15th and concluding on December 15th. Nawiliwili Harbor is a secure facility and requires personnel conducting work to possess valid Transportation Workers Identification Certification and Marine Security Clearance issued by the Department of Homeland Security. H. T. Harvey and Associates assigned trained field biologists to conduct searches of Nawiliwili Harbor each night and provided training that enabled harbor security personnel to properly conduct dedicated facility-wide seabird surveillance during the hour prior to sunrise (and throughout the night). Harbor security also conduct surveillance of the harbor on a routine, hourly basis, and because they have received awareness, response, and in some cases, search training, harbor security are a valued partner in ensuring the highest probability of detecting seabirds when they are grounded, and performing quick and efficient rescue and reporting. H. T. Harvey & Associates biologists conducted 92 searches of Nawiliwili Harbor on consecutive nights in 2023. Harbor security performed 92 consecutive searches within an hour of dawn during 2023 in addition to hourly surveillance of the entire facility. Harbor security were first to discover two of the eight Newell's shearwaters discovered at Nawiliwili Harbor in 2023 and followed established procedures of coordination with H.T. Harvey on-site biologist, Harbors Division, and SOS. | |
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| 10 | KSHCP Section 6.6.1.2.e.iii, ITP Section M.v.3 (N.v.3), ITL Section II.1.5.c. | <p style="text-align: center;">Describe the personnel involved in search efforts at this facility</p> <p>Downed Seabird Monitoring personnel responsible for conducting searches for downed seabirds at Nawiliwili Harbor included one H. T. Harvey & Associates field biologist with extensive familiarity of Nawiliwili Harbor and 4 years of seabird search experience, as well as 3-4 harbor security officers who have received training and/or refreshers on search and surveillance procedures and reporting. In addition to the trained searchers, HDOT, Matson, and Young Brothers personnel in 2023, as in past years, provided incidental observational capacity that increased the probability that birds not detected during the dedicated nighttime and pre-dawn searches would be found by workers at the facility during the day. All of the individuals who participated in regular and routine searches of Nawiliwili Harbor facilities were presented with training and informational content on seabird awareness, response, rescue and KSHCP reporting procedures. Specific personnel responsible for conducting searches at Nawiliwili Harbor were Mitchell Craig (H. T. Harvey & Associates field biologists) and several security personnel under the supervision of Ryan Campos (Allied Universal Security Services) and Robert Cecconi (HDOT Harbors Division).</p> |
| | | Check here if additional information provided on Addendum Sheet. |
| 11 | KSHCP Section 6.6.1.2.e.iv, ITP Section M.v.4 (N.v.4), ITL Section II.1.5.d. | <p style="text-align: center;">Complete the Summary Table containing information for all downed seabirds (and honu nests) found</p> <p style="text-align: center;">X</p> <p>Check here if additional information provided on Addendum Sheet.</p> |
| | | Please see Summary Table |
| 12 | KSHCP Section 6.6.1.1 | <p style="text-align: center;">Provide a copy of each Downed Wildlife Report that was prepared and submitted submitted for this facility during the reporting year</p> <p style="text-align: center;">X</p> <p>Check here if any reports are attached or linked.</p> |
| | | Please see Appendix 2, Downed Wildlife Incident Reports |
| 13 | KSHCP Section 6.6.1.2.e.v, ITP Section M.v.5 (N.v.5), ITL Section II.1.5.e. | <p style="text-align: center;">Provide a discussion of the efficacy of the current self-monitoring protocols and adaptive management and whether adjustments need to be made. Describe any proposed adjustments.</p> <p>Implementing the monitoring protocols at Nawiliwili Harbor in 2023 was a smooth operation and in many respects very similar to the approach in 2022. We coordinated search and monitoring effort among H. T. Harvey & Associates field biologists, harbor security, and HDOT. We believe the effectiveness of the monitoring program is enhanced by the training that was provided to each group of monitors prior to the beginning of the seabird fallout season, coupled with continued outreach and coordination throughout the season to ensure continuity and adherence to fundamental procedures. Monitoring the thoroughness of the search and monitoring efforts was done by tracking the quality and timeliness of coordination, as well as documenting and reporting of downed seabird incidents when and where they occurred. Seabird fallout was significant on Kauai during the peak fledging period and the concurrent new moon, reaching a high recorded by SOS on October 16 of 22 Newell's shearwaters. In anticipation of the October fallout peak, the monitoring team conducted advanced planning and preparation among harbor personnel and the search and monitoring efforts. There were no circumstances that triggered in-season corrections or the need to retrain searchers with respect to the standard monitoring protocols that were followed in 2023. We performed debriefing sessions with search personnel and security following each grounding incident and reviewed circumstances and sufficiency of minimization measures in each case to ensure vigilance and consistency in the monitoring program throughout the fallout season.</p> |
| | | Check here if additional information provided on Addendum Sheet. |
| 14 | KSHCP Section 6.6.1.2.f, ITP Section M.vi (N.vi), ITL Section II.1.6. | <p style="text-align: center;">Provide a summary discussion of the results and efficacy of on-site animal control efforts and adaptive management.</p> <p>HDOT Harbors Division has posted signs regarding the no cat feeding policy in place at Nawiliwili Harbor since 2020. Predator control activities at Nawiliwili Harbor in 2023 consisted of initiating trapping efforts toward the end of the first week in September, in an effort to reduce the numbers of animals on site prior to the beginning of the fallout season. H. T. Harvey & Associates biologists performed three pre-season surveys to gain a baseline estimate of the general numbers of cats present. Trapping at Nawiliwili Harbor consisted of two Tomahawk-style live cage traps placed at various locations within the facility and moved regularly based on observations and reports delivered by search and monitoring personnel and harbor security. Traps were baited with commercial cat food and set Monday through Thursday, excluding weekends and state holidays, for a total 108 trap days. As in 2021 and 2022, Harbors Division retained the services of a licensed local animal controller to remove cats, same day, when cats were captured at Nawiliwili Harbor. The services provided enabled cats that were captured to be handed off to the service provider for efficient and humane evacuation from the facility. No dogs or pigs were reported inside the harbor. See Addendum Sheet 2 for additional summary information.</p> |
| | | Please see Addendum Sheet 2, Predator Control |
| 15 | KSHCP Section 6.6.1.2.g, ITP Section M.vii (N.vii), ITL Section II.1.7. | <p style="text-align: center;">On the worksheets provided, provide a summary of worker training efforts and outreach efforts.</p> <p style="text-align: center;">X</p> <p>Check here if additional information provided on Addendum Sheet.</p> |
| | | Please see Addendum Sheets 3 and 4, Training and Outreach |
| 16 | KSHCP Section 6.6.1.2.h, ITP Section M.viii (N.viii), ITL Section II.1.8. | <p style="text-align: center;">Describe any other relevant information that the wildlife agencies may require to verify compliance with the permit issued.</p> <p>NA</p> |
| | | Check here if additional information provided on Addendum Sheet. |
| 17 | ITP Section M.v.6 (N.v.6), ITP Section II.1.5.f. | <p style="text-align: center;">Provide nighttime photos of covered properties or operations during non-seabird season and during seabird season.</p> <p style="text-align: center;">X</p> <p>Check here if photos are attached or linked.</p> <p>Link: _____</p> |
| | | Please see Appendix 3, Photos of Covered Facilities |

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| 18 | KSHCP 6.6.1.2 | Provide photographs illustrating any proposed changes to lighting, facility predator control programs, outreach and training or downed bird recovery protocols. | NA |
| | | Check here if photos are attached or linked. | Link: <input type="text"/> |
| 19 | ITP Section M (N)/ITL Section II.I | If applicable, describe any circumstances that triggered adaptive management and how the adaptive management was implemented. | NA |
| | | Check here if additional information provided on Addendum Sheet. | |
| 20 | ITP Section M (N)/ITL Section II.I | If applicable, describe all occurrences of changed circumstances and how they were addressed. | NA |
| | | Check here if additional information provided on Addendum Sheet. | |
| 21 | ITP Section M (N)/ITL Section II.I | If applicable, describe any unforeseen circumstances. | NA |
| | | Check here if additional information provided on Addendum Sheet. | |
| 22 | ITP Section M (N)/ITL Section II.I | If applicable, describe progress made in achieving biological goals and objectives. | Standard security and worker safety procedures at Nawiliwili Harbor require that high mast lights be turned on to full illuminance when active cargo operations are in progress and/or cruise ships are berthing, and only at the specific pier where those operations are occurring. The standard procedures in place during the seabird season are that when nighttime operations are completed, high mast lights are reduced to a lower security level setting (roughly 15% of illumination capacity). Prior to the completion and approval of the KSHCP, HDOT Harbors Division finished replacing the high-mast flood lights with new, full cut-off, downward-pointing LED fixtures. The new system upgrades provide more comprehensive system control features that enable programming and manual control capabilities that allow adjustments or corrections to be made quickly. Harbors Division personnel at Nawiliwili Harbor continue work closely with lighting engineers to ensure sufficient training of harbor security personnel and staff so that proper setting procedures are followed. Maintaining light minimization standards to reduce facility lighting during non-operational periods is in effect year-round at Nawiliwili Harbor and is considered progressive in terms of continuing to advance biological goals and objectives. |
| | | Check here if additional information provided on Addendum Sheet. | |
| 23 | ITP Section M (N)/ITL Section II.I | If applicable, identify any problems that occurred and how they were handled. | No problems were encountered that affected the successful implementation of KSHCP monitoring activities during the 2023 season. The KSHCP monitoring team works very effectively with Harbors Division personnel and harbor security to ensure any issues that are identified or require adjustment are addressed promptly and efficiently. |
| | | Check here if additional information provided on Addendum Sheet. | |
| 24 | ITP Section M (N)/ITL Section II.I | If applicable, provide a description of cost expenditures and other information related to funding assurances (e.g., summary of KSHCP financial status, including any KSHCP mitigation fees owed). | HDOT-Harbors Division, KSHCP Conservation Measures Implementation Funding Account: <u>Total Deposit</u> = \$35,894.73 (Year 4, 2023). This payment is combined for both Nawiliwili Harbor and Port Allen Harbor facilities. |
| | | Check here if additional information provided on Addendum Sheet. | |
| 25 | KSHCP Section 6.6.1.4 | Certification | <p>I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information is true, accurate, and complete.</p> <div style="border: 1px solid black; height: 40px; width: 100%; background-color: #e0f0ff;"></div> <p style="text-align: center;">Insert electronic signature in space above.</p> |

KSHCP 2023 -- Addendum Sheet 1, Take Calculations, Nawiliwili Harbor

Reporting Year **2023**

Participant Name **State of Hawaii, Department of Transportation**
 U.S. Fish and Wildlife Service **ITP No. TE74138D-0** and Hawaii Department of Land and Natural Resources **ITL No. ITL-30**

Use the space below to show the calculations used to estimate take of Covered seabirds at Nawiliwili Harbor in 2022.

Item # **Relevant Requirement**
 4 ITP Section J/ITL
 Section II.D

| 2023 Calculation of Lethal and Non-Lethal Take - Nawiliwili Harbor | | | |
|---|-------------|-------------|-------------|
| Take Estimation Parameter | NESH | HAPE | BRSP |
| Birds found alive, released from SOS | 8 | 0 | 0 |
| Birds found dead or euthanized at SOS | 0.00 | 0.00 | 0.00 |
| Discovery rate (90% = 0.90) | 0.90 | 0.90 | 0.90 |
| Total annual take (found birds/disc rate) | 8.89 | 0.00 | 0.00 |
| Lethal take (Observed+Unobserved) | 1.85 | 0.00 | 0.00 |
| Non-lethal take | 7.04 | 0.00 | 0.00 |

KSHCP 2023 - Addendum Sheet 2, Predator Control at Nawiliwili Harbor

Reporting Year

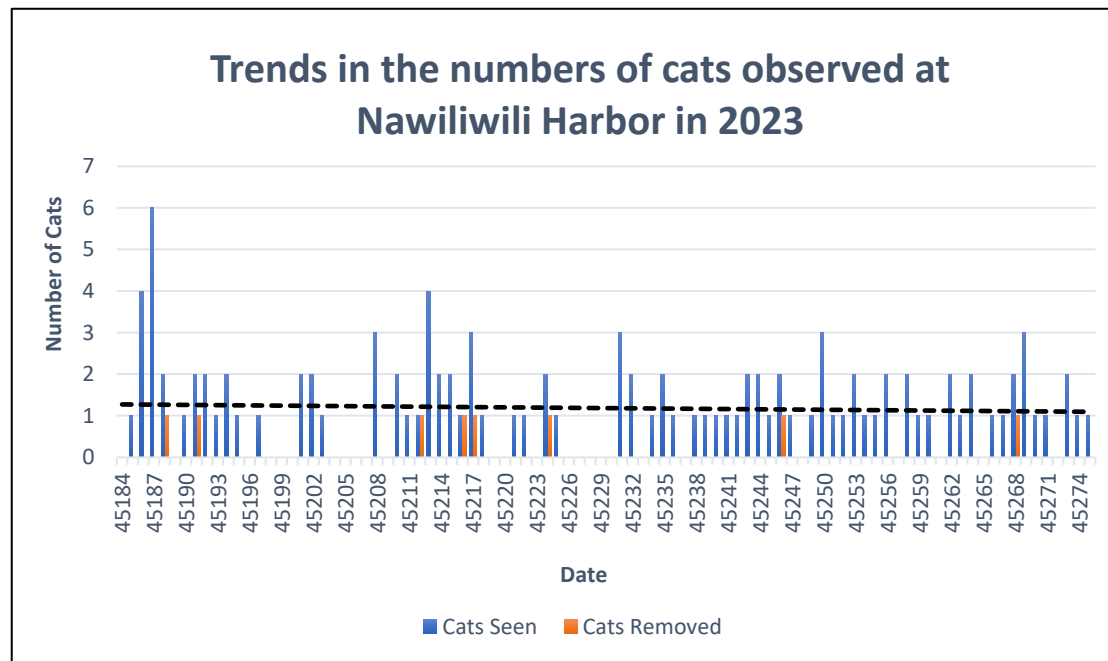
2023

Participant Name

State of Hawaii, Department of Transportation

U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30

| Relevant Requirement | Additional Information |
|---|---|
| KSHCP Section 6.6.1.2.f, ITP Section M.vi (N.vi), ITL Section II.I.6. | Cat observations at Nawiliwili Harbor were made by trained search biologists during the performance of nightly searches. Numbers of cats observed by the search biologist ranged from 0-6 and averaged 1.20 cats per survey. Cats were observed throughout Nawiliwili Harbor but were encountered most frequently along the property boundary adjacent to Nawiliwili Small Boat Harbor (DLNR-DOBOR). Trapping effort consisted of deploying 2 traps per day (excluding Friday, Saturday, and Sunday) for a total 108 trap days. A total of 8 cats were captured and removed from Nawiliwili Harbor between September 19 and December 8, yielding an overall capture success rate of 0.07 cats/trap night, or roughly 0.62 cats/week. Although the pre-season survey duration was short (3 surveys, average count = 8), it did provide a baseline from which to evaluate the effectiveness of the current management program at reducing the number of cats on property and was especially valuable in understanding sources of cat ingress and movement into and out of Nawiliwili Harbor. This understanding was useful in anticipating where cats are likely to be encountered and what variables effect their retention within Nawilwili Harbor and the surrounding area. In 2024, the services of the animal control contractor may be expanded to include managing the trapping effort, in addition to removing animals from the facility. |



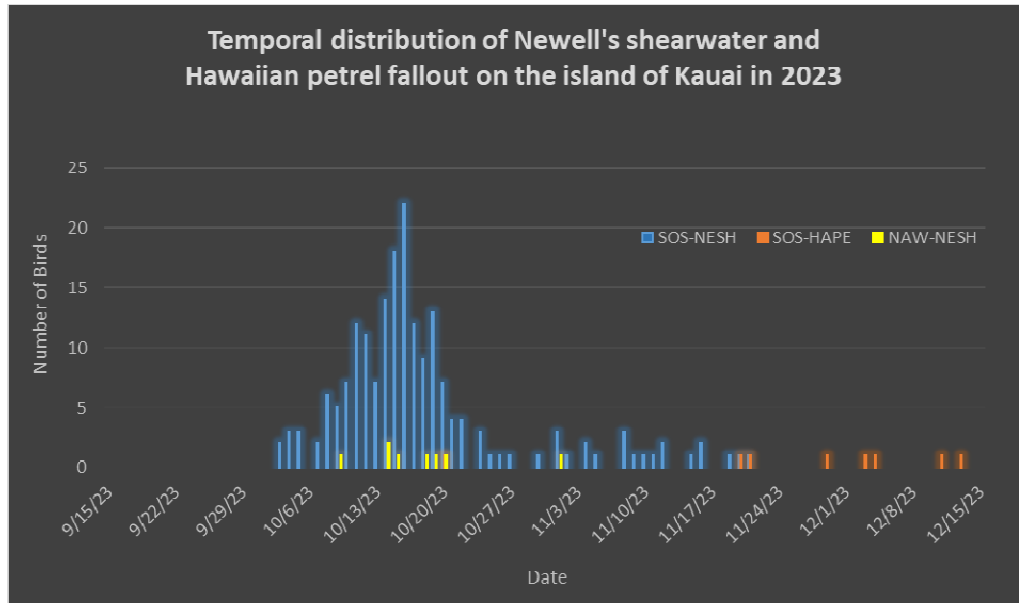
KSHCP 2023 -- Summary of Take of Covered Seabirds Documented at Nawiliwili Harbor, Kauai

Reporting Year: **2023** Participant Name: **State of Hawaii, Department of Transportation**

U.S. Fish and Wildlife Service ITP No. **TE74138D-0** and Hawaii Department of Land and Natural Resources ITL No. **ITL-30**

Complete the information below for each downed seabird found at the facility

| Date Found | Time Found | Property or Facility | Describe Exact Location Where Found | GPS Latitude | GPS Longitude | Species (NESH, HAPE, BRSP) | File Name | SOS Reference Number | Date Admitted to SOS | Disposition of Seabird (released by SOS, DOA, euthanized, if known) | Disposition Date | Days in SOS Care (Same day release, 1-Day, ≥2 Days) |
|------------|------------|----------------------|---|-----------------|------------------|----------------------------|---------------------------|----------------------|----------------------|---|------------------|---|
| 10/9/2023 | 22:15 | Nawiliwili Harbor | Nawiliwili Harbor, Pier 3 Yard (YB) | 21° 57'10" N | 159° 21'34" W | NESH | NESH_2023_10-09_HDOT-NAW | BMH009 | 10/10/2023 | Released | 10/10/2023 | Same Day |
| 10/14/2023 | 21:40 | Nawiliwili Harbor | Nawiliwili Harbor, Pier 3, base of security barrier | 21° 57'16" N | 159° 21'24" W | NESH | NESH_2023_10-14a_HDOT-NAW | MPC023 | 10/15/2023 | Released | 10/15/2023 | Same Day |
| 10/14/2023 | 22:00 | Nawiliwili Harbor | Nawiliwili Harbor, along the permanent wall fronting Waapa Road, isthmus between Piers 2 and 3 | 21° 57'14" N | 159° 21'33" W | NESH | NESH_2023_10-14b_HDOT-NAW | MPC022 | 10/15/2023 | Released | 10/15/2023 | Same Day |
| 10/15/2023 | 21:27 | Nawiliwili Harbor | Nawiliwili Harbor, Pier 1, approximately 37 meters east of main warehouse | 21° 57'18" N | 159° 21'18" W | NESH | NESH_2023_10-15_HDOT-NAW | MPC029 | 10/16/2023 | Released | 10/16/2023 | Same Day |
| 10/18/2023 | 21:19 | Nawiliwili Harbor | Nawiliwili Harbor, narrow isthmus between Pier 2 and Pier 3 | 21° 57'15.3" N | 159° 21'29.6" W | NESH | NESH_2023_10-18_HDOT-NAW | EJS037 | 10/19/2023 | Released | 10/20/2023 | 1 Day |
| 10/19/2023 | 23:25 | Nawiliwili Harbor | Nawiliwili Harbor, at opening of north-facing bay door on Pier 2 warehouse/terminal building (west end) | 21° 57'17.36" N | 159° 21'22.49" W | NESH | NESH_2023_10-19_HDOT-NAW | TAO044 | 10/20/2023 | Released | 10/20/2023 | Same Day |
| 10/20/2023 | 21:10 | Nawiliwili Harbor | Nawiliwili Harbor, Pier 1 yard mauka; stacked containers and fence-line adjacent to Hawaiian Cement | 21° 57'26" N | 159° 21'17" W | NESH | NESH_2023_10-20_HDOT-NAW | EJS045 | 10/21/2023 | Released | 10/21/2023 | Same Day |
| 11/01/2023 | 22:05 | Nawiliwili Harbor | Nawiliwili Harbor, Pier 3 next to Young Brothers small office building, central yard | 21° 57'07" N | 159° 21'34" W | NESH | NESH_2023_11-01_HDOT-NAW | EJS052 | 11/2/2023 | Released | 11/9/2023 | ≥ 2 Days |



KSHCP 2023 -- Summary of Seabird Awareness and Response Training at Nawiliwili Harbor, Kauai

Reporting Year

2023

Participant Name

State of Hawaii, Department of Transportation

U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30

| Date of Training | Training Topic | Property or Facility | Training Group | Number of Attendees | Method of Training Delivery (e.g., video, in-person, educational materials) | Printed Materials or Other Media Provided |
|------------------|---|----------------------|---|---------------------|---|--|
| 9/10/2023 | Combined Seabird Awareness and Reporting and Search and Recovery; inclusive of on the ground searcher training and site familiarity exercises to facilitate searcher effectiveness and proficiency; lighting discussion and operational safety considerations | Nawiliwili Harbor | H. T. Harvey & Associates and Harbor Security | 3 | In-person | Yes. Training module and Fact Sheet, KSHCP Downed Wildlife Protocol and Incident Documentation and Reporting Form, maps, discussion of search area characteristics, historic fallout distribution, additional resources. |
| 9/14/2023 | Seabird Awareness, Rescue and Reporting | Nawiliwili Harbor | HDOT Harbors Division Staff and Site Security | 6 | MS-Teams Webinar | Yes. Training module and Fact Sheet, KSHCP Downed Wildlife Protocol and Incident Documentation and Reporting Form. |

KSHCP 2023 -- Summary of Outreach to Expand Awareness of Seabird Fallout, Proper Rescue, and Reporting Procedures at Nawiliwili Harbor, Kauai

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| Reporting Year | 2023 | Participant Name | State of Hawaii, Department of Transportation |
| U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30 | | | |

| Outreach Dates | Description of Outreach Activities and Delivery Process | Property or Facility | Target Outreach Audience | Printed Materials or Other Media Provided |
|-----------------------|---|----------------------|--|--|
| 9/8/2023 | Beginning of the season outreach with tenants on seabird light attraction fallout and procedures for notifying facility managers and HDOT personnel; review of proper rescue and reporting procedures, avoidance tips (searching around machinery quickly and efficiently before operations, situational awareness). | Nawiliwili Harbor | Matson supervisor and staff | Provided training module and Fact Sheet containing information to facilitate rescue, response, and reporting and enhance "train the trainer" capacity. |
| 9/12/2023 | Beginning of the season outreach with tenants on seabird light attraction fallout and procedures for notifying facility managers and HDOT personnel; review of proper rescue and reporting procedures, avoidance tips (searching around machinery quickly and efficiently before operations, situational awareness). | Nawiliwili Harbor | Young Brothers site manager and yard foreman | Provided training module and Fact Sheet containing information to facilitate rescue, response, and reporting and enhance "train the trainer" capacity. |
| Throughout the season | Periodic check-ins with HDOT Harbors Division staff at Nawiliwili Harbor, Matson, and Young Brothers to provide advance notice of periods of higher fallout probability, heighten awareness, and revisit fundamental elements of seabird awareness, rescue, response, and reporting requirements. | Nawiliwili Harbor | HDOT personnel, harbor security, and Nawiliwili Harbor tenants | Training modules and Fact Sheet |
| Throughout the season | The seabird awareness Seabird Light Attraction Fact Sheet was posted in the main harbor office, in worker common areas, and on the bulletin board in staff break room in clear view of HDOT-H staff. The Fact Sheet was posted in common areas of the Young Brothers office and in the Matson office and staff staging area in the warehouse, in clear view of tenant staff, and in the security shack, inside the cruise ship passenger terminal movement area, at the main entrance to Nawiliwili Harbor. | Nawiliwili Harbor | HDOT staff, Matson staff, and Young Brothers staff | Seabird Awareness Fact Sheet |



Seabird Light Attraction at Airports and Harbors



| | | |
|--|--|--|
| <p>Hawaiian petrel Nesting Colonies: Maui, Lanai, Kauai Fledging Dates: September to November</p> | <p>Newell's shearwater Nesting Colonies: Kauai, Maui, Hawaii Fledging Dates: October and November</p> | <p>Wedge-tailed shearwater Nesting Colonies: Coastal Areas State-wide Fledging Dates: November and December</p> |
|--|--|--|



Band-rumped storm petrel
Nesting Colonies: Kauai, Hawaii, Maui
Fledging Dates: October and November

Inside nesting burrows since early summer, **fledgling seabirds leave the nest at night** and follow the moonlight to reach the open ocean where they learn to feed. They will not return for 3-4 years.

When the moon is dark, **bright lights at airports and harbors can attract fledgling seabirds** which sometimes collide with structures or become grounded.

Grounded seabirds are vulnerable to predators such as cats and dogs as well as machinery. This light attraction and grounding phenomena is called "fallout".

THESE SPECIES ARE PROTECTED BY STATE AND FEDERAL LAW



Facility lighting is required for safety and security and during operations.



When the moon is full it exceeds the brightness of facility lighting.

Turn Off Non-Essential Bright Lights during Seabird Fallout Season
September 15 – December 15



Handling and Reporting Downed Seabirds



Procedures for Rescuing Downed Seabirds

- Carefully approach the seabird from behind.
- Gently wrap a small dry towel around its back and wings and place it inside a well-ventilated small animal carrier or box.
- Write down **Date, Time, Specific Location** where the seabird was found, and the **Name and Contact Information** of the person who found it.



Reporting Downed Seabirds

- Kauai**
Lihue Airport – Call Security Dispatch (808-274-3814) and ask for assistance from USDA Wildlife Services.
Nawiliwili Harbor – Call Harbor Security (808-278-0673) and SOS (808-635-5117)
Port Allen Harbor – Call Harbor Security (808-278-0673) and SOS (808-635-5117)
Maui and Lanai
Kahului Airport – Call Security Dispatch (808-872-3875 and 3876) and ask for assistance from USDA Wildlife Services
Lanai Airport – Call USDA Wildlife Services (808-292-8387) and Maui Nui Seabird Recovery Project (808-573-2473)
Kahului Harbor – Call Harbor Security (808-227-9423) and Maui Nui Seabird Recovery Project (808-573-2473)

Photo Credits: Maui Nui Seabird Recovery Project (A); L. Young (B); A. Raine (C); Hawaii DNR and USFWS (D,E,F); B. Yuen (G).



HAVE YOU SEEN ME?

I'm a SEABIRD

I NEED YOUR HELP

Report Seabirds Immediately to:
Harbor Security Main Gate and 808-278-0673









APPENDIX 1
MAP SHOWING THE GENERAL SEARCH ROUTES FOLLOWED

Nawiliwili Harbor

Legend

Nawiliwili Harbor Zones

-  Matson and Vehicle Storage
-  Administrative and Operations Yard
-  Matson
-  Pier 2 - Cruise Ship Restriction Zone
-  Young Brothers
-  Regular survey route



N:\Projects\4000\4065-01\04\Reports\2020 HDOT Report\Nawiliwili Harbor Seabird Survey Monitoring.mxd

APPENDIX 2
DOWNED WILDLIFE INCIDENT REPORTS

Nawiliwili Harbor

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: Newell's shearwater

Species Scientific Name: *Puffinus newelli*

Four Letter Code: NESH

File Name: **NESH_2023_10-09_HDOT-NAW**

| | |
|--|--|
| Permit Holder: | State of Hawaii, Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 9, 2023 |
| Date of report: | October 11, 2023 |
| Fatality or Injury: | Found alive; no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 9, 2023 (AM) |
| Time Observed (HST): | 22:15 |
| Time Picked Up and By Who: | 22:20/ Mitchell Craig |
| General Location: | Nawiliwili Harbor, Pier 2 Yard (YB) |
| GPS Coordinates: | 21° 05'10"N, 159° 21'34"W |
| Closest structure and distance (light, powerline, building): | Maintenance/supply shed |
| Ground Cover Type and Height (cm): | Concrete |
| Cloud Cover (%): | 10 |
| Weather Conditions (wind speed, direction, rain): | East 10-15 kts, little precipitation |
| Moon Phase: | Waning Crescent |
| Drop off location (Which aid station or SOS): | SOS Ais Station Nawiliwili Harbor |
| File Name | NESH_2023_10-09_HDOT-NAW |
| SOS Reference Number | BMH009 |

Downed Wildlife Incident Reporting Form **LISTED and MBTA SPECIES**

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response)):

The seabird appeared in reasonable condition and was somewhat active when discovered. No injuries were apparent.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers)):

No injury was evident. Ambient light levels at low security level setting (15%); no lighting is present on the maintenance shed and no indication of collision with any structures was evident. The nearest high mast light is located about 19 meters to the WSW of where the seabird was discovered.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

The KSHCP biologist conducting searches for downed seabirds encountered the Newell's shearwater and initiated rescue and documentation actions swiftly. The biologist contacted the project leader who initiated an official notification and reporting sequence. The shearwater, believed to be a hatch year fledgling, was easily placed in the rescue kit carrier, and delivered in minutes to the SOS Aid Station located inside the main entrance to the harbor. SOS was notified once the seabird was secure within the Aid Station and disposition is pending.

Additional Notes/Comments:

None

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Newell's shearwater (*Puffinus newelli*) discovered by monitoring personnel at Nawiliwili Harbor on the evening of October 9, 2023.

Downed Wildlife Incident Reporting Form
LISTED and MBTA SPECIES



This energetic Newell's shearwater, probably a hatch year fledgling, was discovered during routine searches to locate and rescue seabirds that are grounded seasonally due to light attraction disorientation.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Overview of harbor facilities and infrastructure where the Newell's shearwater was discovered at Nawiliwili Harbor on October 9, 2023.



Shearwater discovery location and distance and direction to nearest high mast lights.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-14a_HDOT-NAW**

| | |
|--|--|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 14, 2023 |
| Date of report: | October 17, 2023 |
| Fatality or Injury: | Found alive; no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 14, 2023 (AM) |
| Time Observed (HST): | 21:40 |
| Time Picked Up and By Who: | 21:45 M. Craig |
| General Location: | Nawiliwili Harbor, Pier 2, base of security barrier |
| GPS Coordinates: | 21° 57' 16" N, 159° 21' 24" W |
| Closest structure and distance (light, powerline, building): | Less than 1-ft from base of security barrier; 38 meters to warehouse; 45 meters to nearest high mast light |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | 5 |
| Weather Conditions (wind speed, direction, rain): | Light to var. N 0-5 mph, no precipitation |
| Moon Phase: | New Moon (0% illumination) |
| Drop off location (Which aid station or SOS): | SOS Aid Station, Nawiliwili Harbor |
| File Name | NESH_2023_10-14a_HDOT-NAW |
| SOS Reference Number | MPC023 |

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response)):

Right wing outstretched when discovered, no apparent injuries, seemed alert.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers)):

No obvious or apparent injuries; light attraction disorientation likely contributed to grounding.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

Transferred to rescue kit carrier, placed into the aid station at harbor main gate, notified SOS by telephone, and reported discovery to harbor security and KSHCP project manager.

Additional Notes/Comments:

None.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form
LISTED and MBTA SPECIES



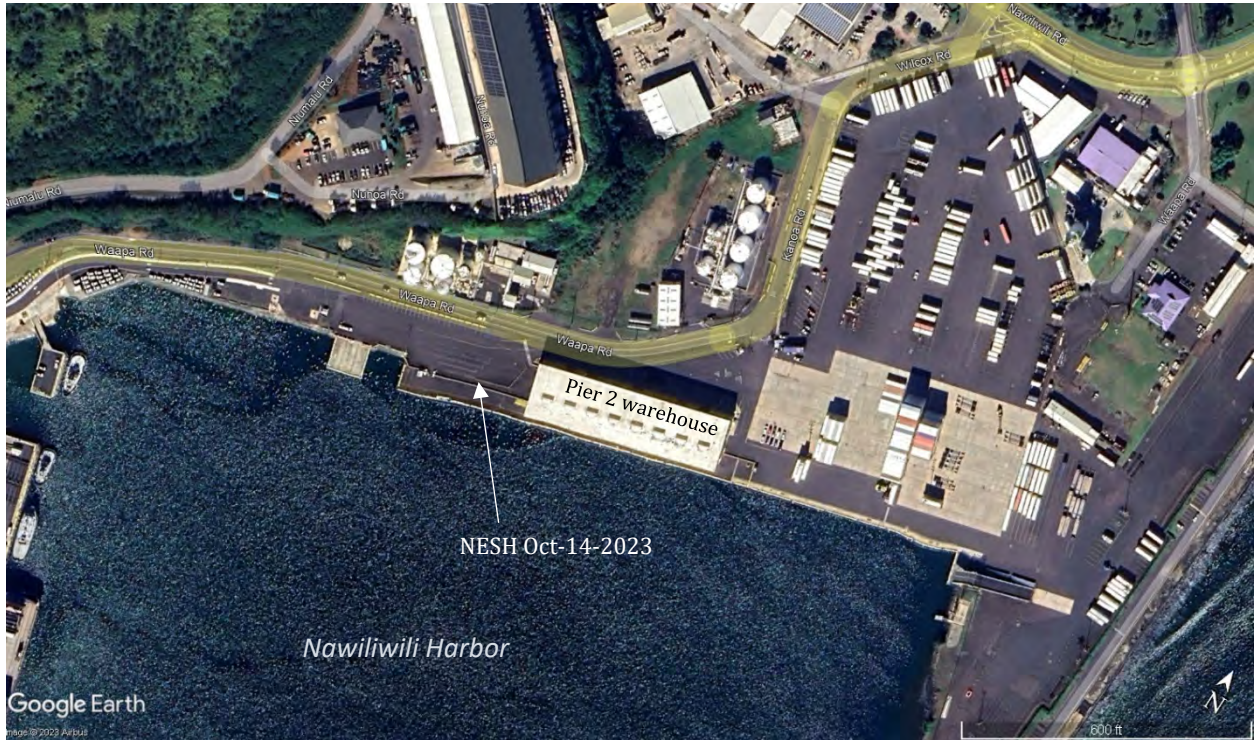
Newell's shearwater (presumably a fledgling) discovered during routine seabird light attraction fallout monitoring at Nawiliwili Harbor, island of Kauai, October 14, 2023.

Downed Wildlife Incident Reporting Form
LISTED and MBTA SPECIES



A grounded Newell's shearwater can be seen along the edge of a security barrier WSW of the Pier 2 warehouse at Nawiliwili Harbor, October 14, 2023.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Wide view image showing vicinity infrastructure of Nawiliwili Harbor, port facilities, and location of Newell's shearwater (above); closer view of the shearwater grounding area and distance to nearest lights (below).



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-14b_HDOT-NAW**

| | |
|--|--|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 14, 2023 |
| Date of report: | October 17, 2023 |
| Fatality or Injury: | Found alive; no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 14, 2023 (AM) |
| Time Observed (HST): | 22:00 |
| Time Picked Up and By Who: | 22:10 M. Craig |
| General Location: | Nawiliwili Harbor, along the permanent wall fronting Waapa Road, isthmus between Piers 2 and 3 |
| GPS Coordinates: | 21° 57'14" N, 159° 21'33" W |
| Closest structure and distance (light, powerline, building): | Low rock wall < 1-ft; perimeter fence 3-4 meters. |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | 5 |
| Weather Conditions (wind speed, direction, rain): | Light northerly winds 0-5 mph |
| Moon Phase: | New Moon 0% illumination |
| Drop off location (Which aid station or SOS): | SOS Aid Station, Nawiliwili Harbor |
| File Name | NESH_2023_10-14b_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form **LISTED and MBTA SPECIES**

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response)):

Found alive and active.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers)):

No apparent injuries. Light attraction disorientation likely contributed to grounding.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

The seabird was quickly secured, transported and placed in the SOS aid station at the harbor main entrance; SOS and project manager notified; grounding reported to harbor security.

Additional Notes/Comments:

The Newell's shearwater was active and appeared alert, scuttling very slowly along the base of the rock wall during the short time between discovery and securing in the rescue kit carrier. Winds were nil seaward of the adjacent hillside.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

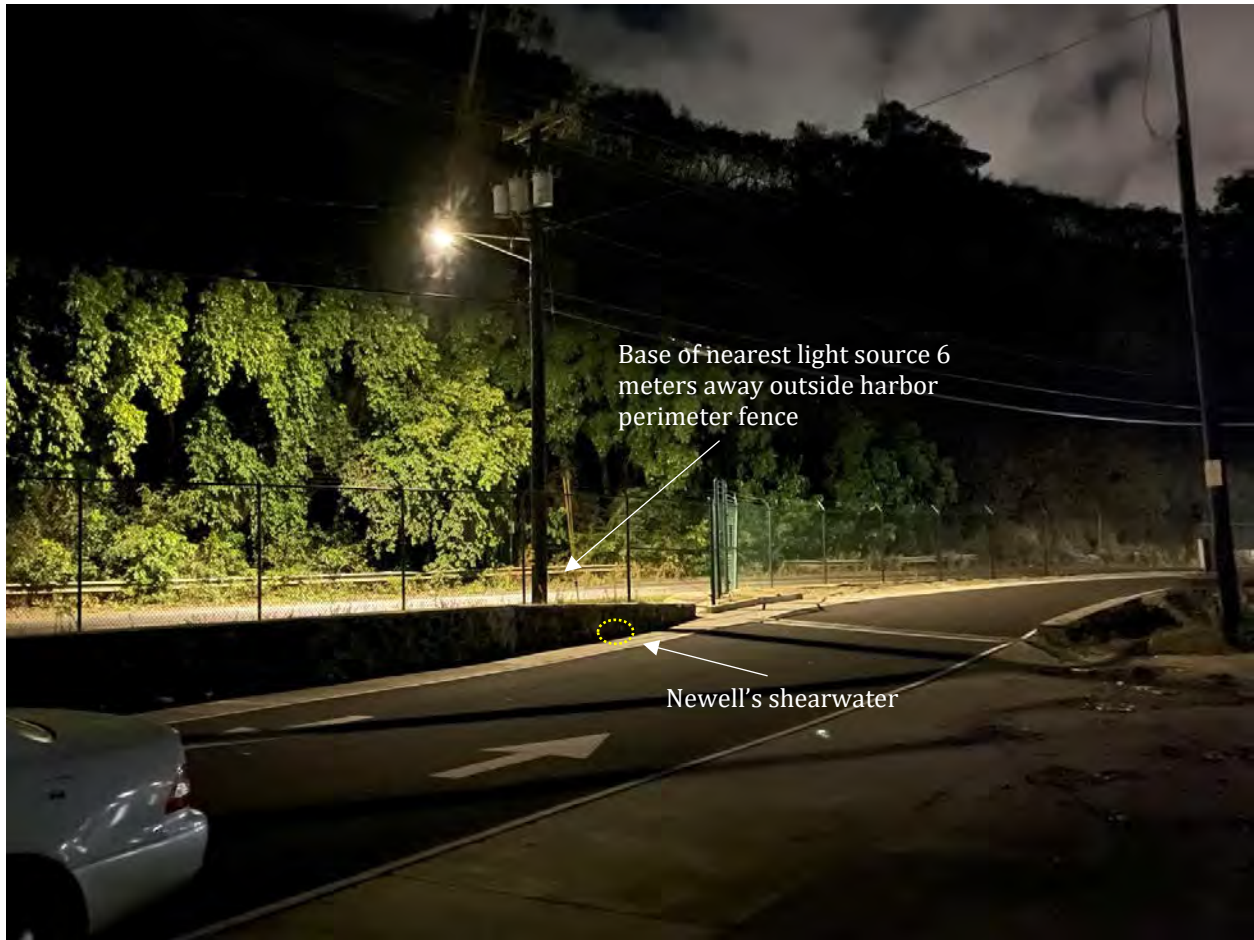
Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form
LISTED and MBTA SPECIES



Newell's shearwater discovered by search personnel conducting seabird light attraction fallout monitoring at Nawiliwili Harbor, October 14, 2023.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

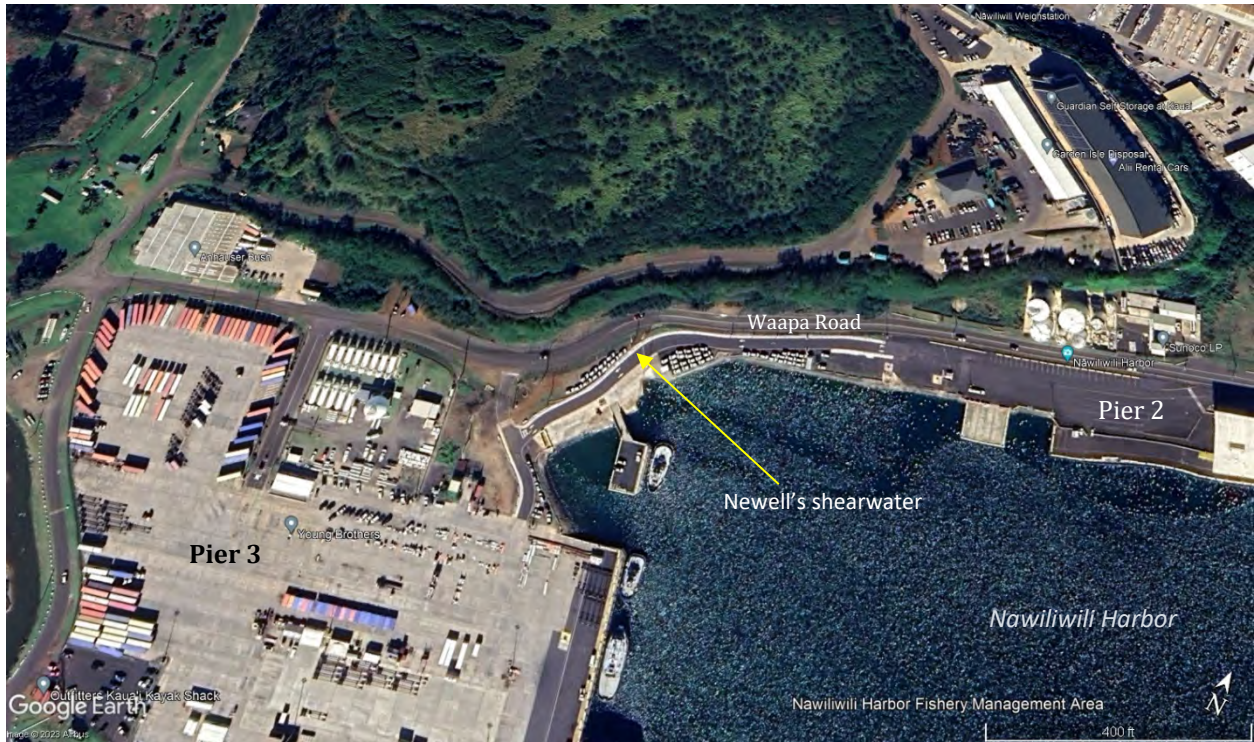


Base of nearest light source 6 meters away outside harbor perimeter fence

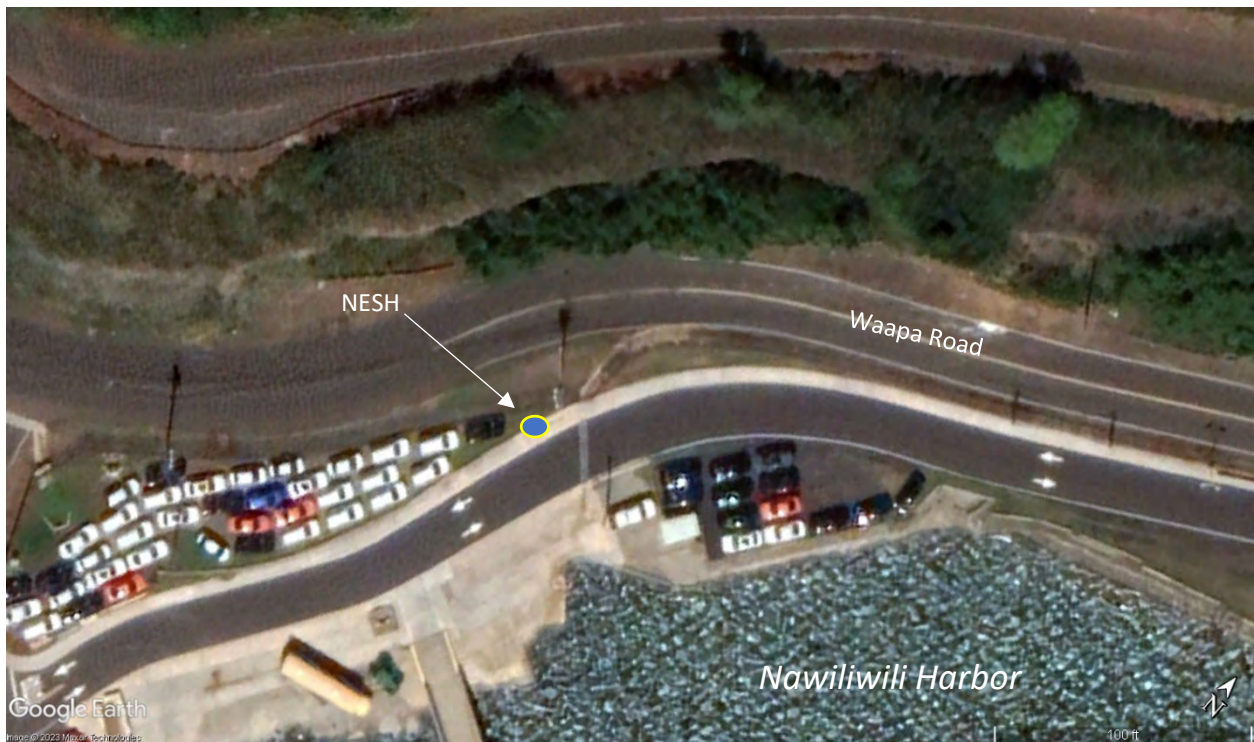
Newell's shearwater

Location where a Newell's shearwater was discovered along the access road between Pier 2 and Pier 3 along a low rock wall adjacent to Waapa Road.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Overview of Nawiliwili Harbor facility infrastructure and location of Newell's shearwater grounding (above) and zoomed in to show specific point where the shearwater was discovered (below).



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-15_HDOT-NAW**

| | |
|--|---|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 15, 2023 |
| Date of report: | October 18, 2023 |
| Fatality or Injury: | Found alive; no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 15, 2023 (AM) |
| Time Observed (HST): | 21:27 |
| Time Picked Up and By Who: | 21:30 M. Craig |
| General Location: | Nawiliwili Harbor, Pier 1, approximately 37 meters east of main warehouse |
| GPS Coordinates: | 21° 57' 18" N, 159° 21' 18" W |
| Closest structure and distance (light, powerline, building): | High mast light (12 meters) and main warehouse (37 meters) |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | 5 |
| Weather Conditions (wind speed, direction, rain): | NE winds 10 mph, no precipitation |
| Moon Phase: | New Moon 0% illumination |
| Drop off location (Which aid station or SOS): | SOS Aid Station, Nawiliwili Harbor |
| File Name | NESH_2023_10-15_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form **LISTED and MBTA SPECIES**

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response):

No apparent injuries, very active and alert.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers):

Light attraction disorientation likely contributed to grounding; there was no evidence of injury.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

Quickly secured in the rescue kit carrier and placed inside the aid station located inside the harbor main entrance. SOS was notified and the incident was reported to harbor security and KSHCP project manager.

Additional Notes/Comments:

The discovery location was casually visited while implementing monitoring activities nearby, 30 minutes prior to the time of discovery, and the shearwater was not present at that time, suggesting grounding had occurred sometime within the 30-minute period preceding discovery. The shearwater was very active and exhibited attempts to take flight. The bird vocalized loudly when picked up and placed in the rescue kit carrier.

This kind of active and alert behavior is encouraging and suggests greater likelihood of fitness retention and successful release.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



A grounded Newell's shearwater was discovered during routine seabird monitoring activities at Nawiliwili Harbor, island of Kauai, on October 15, 2023. The discovery is consistent with the well-documented island-wide peak of fledging for Newell's shearwaters, amplified in some years by the timing of the new moon.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Vicinity of the grounding location for the Newell's shearwater discovered on October 15, 2023, at Nawiliwili Harbor; facing the east end of the warehouse. Though no longer present in the image, the dashed oval approximates the location of the discovery.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Nawiliwili Harbor facilities and location of Newell's shearwater.



Location of Newell's shearwater discovery and nearest high mast light (12 meters bearing 56°) a distance of 37 meters bearing 265° to the warehouse wall-mounted light.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-18_HDOT-NAW**

| | |
|--|---|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Rolando Ancheta (Allied Universal Security) |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 18, 2023 |
| Date of report: | October 20, 2023 |
| Fatality or Injury: | Found alive |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 18, 2023 (AM) |
| Time Observed (HST): | 21:19 |
| Time Picked Up and By Who: | 21:40 M. Craig |
| General Location: | Nawiliwili Harbor, narrow isthmus between Pier 2 and Pier 3 |
| GPS Coordinates: | 21° 57'15.31" N, 159° 21'29.56" W |
| Closest structure and distance (light, powerline, building): | Perimeter fence-line and 2 nearest high mast lights (20 meters and 40 meters, respectively) |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | Mostly clear |
| Weather Conditions (wind speed, direction, rain): | Light wind, no precipitation reported |
| Moon Phase: | Waxing crescent 14% illumination |
| Drop off location (Which aid station or SOS): | SOS Aid Station at Nawiliwili Harbor |
| File Name | NESH_2023_10-18_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response)):

The shearwater was found alive, no injuries were reported.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers)):

Light attraction disorientation likely contributed to grounding. No injuries were reported.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

Security guard, Rolando Ancheta, discovered the seabird and quickly contacted the KSHCP biologist who was at the time conducting searches in another location at Nawiliwili Harbor; the biologist accompanied the security guard to the discovery point, and assisted with securing the seabird and placing it inside the SOS Aid Station receptacle. SOS was notified and additional documentation was performed.

Additional Notes/Comments:

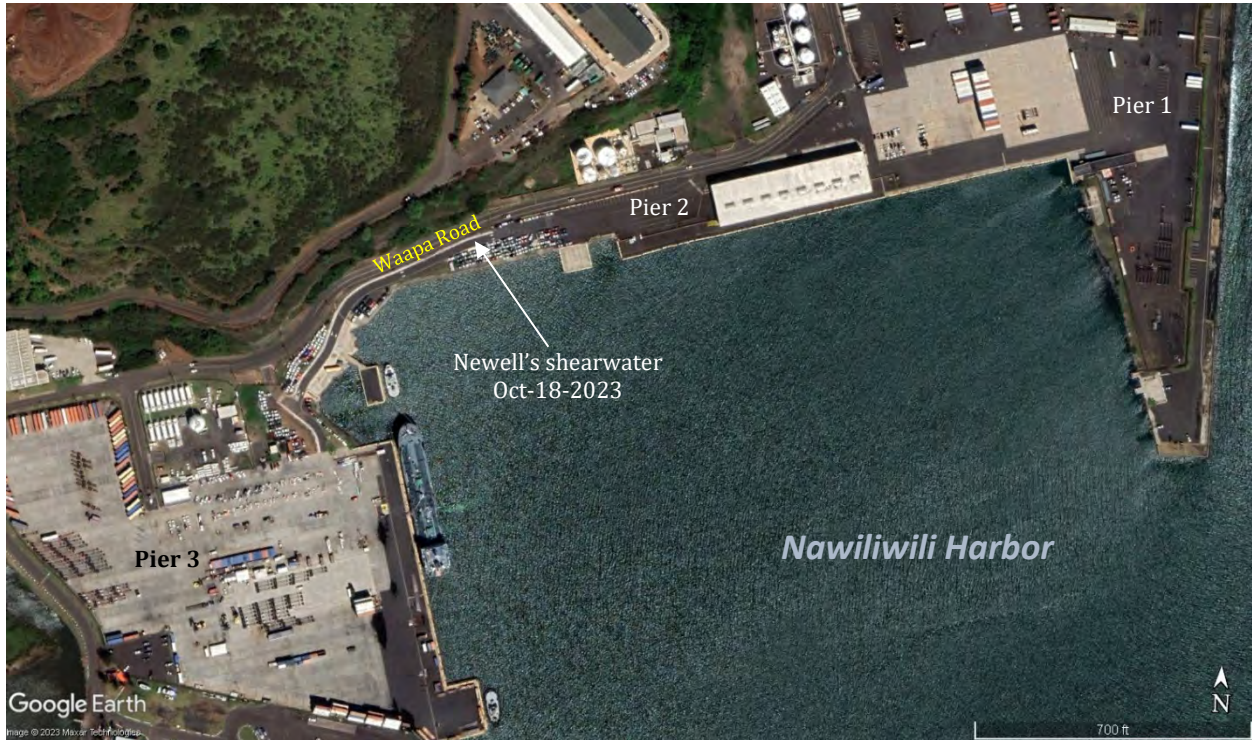
No active port operations; all high mast lights were set at 15% percent security level.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Location of a Newell's shearwater discovered at Nawiliwili Harbor on October 18, 2023 (above) and relative distance and bearings of two nearby high mast lights (below).



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Newell's shearwater, presumably a fledgling, resting securely inside the SOS Aid Station at Nawiliwili Harbor (above) and vicinity features where the shearwater was discovered (below).



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-19_HDOT-NAW**

| | |
|--|---|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Tanya (AGS Security) |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 19, 2023 |
| Date of report: | October 23, 2023 |
| Fatality or Injury: | Found alive, no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 19, 2023, approximately 21:30-22:00 |
| Time Observed (HST): | 23:25 |
| Time Picked Up and By Who: | 23:30 Asa Medina |
| General Location: | Nawiliwili Harbor, at opening of north-facing bay door on Pier 2 warehouse/terminal building (west end) |
| GPS Coordinates: | 21° 57'17.36" N, 159° 21'22.49" W |
| Closest structure and distance (light, powerline, building): | Pier 2 warehouse (1 meter) and perimeter fence (6 meters) |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | 100 |
| Weather Conditions (wind speed, direction, rain): | Mostly cloudy, occasional showers |
| Moon Phase: | Waxing crescent 22% illumination |
| Drop off location (Which aid station or SOS): | SOS Aid Station at Nawiliwili Harbor |
| File Name | NESH_2023_10-19_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response)):

Appeared to be alert, no injuries were apparent.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers)):

Light attraction disorientation likely contributed to the grounding. Lighting may have been elevated to ensure the safety of nighttime pedestrian and vehicle movement between the cruise ship, port facility, Kauai community, and return to ship.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

The shearwater was discovered by AGS Security officer (Tanya) on duty at the time in support of cruise ship operations. Tanya immediately reported the discovery to harbor security (Allied Universal Security – AUS) and the seabird was rescued, documented, and placed in the Aid Station by officer Asa Medina. SOS was notified right away.

Additional Notes/Comments:

None.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



This Newell's shearwater was discovered and reported on October 19, 2023, outside the active cruise ship terminal at Nawiliwili Harbor, an area frequented by passengers and support personnel during vessel overnights. Harbor security responded quickly by securing the seabird and carefully placing it in the SOS Aid Station, located a short distance away next to the main gate.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



The top image provides a view of Pier 2 and sections of Piers 1 and 3, and the general location of the Newell's shearwater (NESH) is noted by the yellow oval. The lower image provides a closer view of the position of the shearwater (dashed oval) when it was discovered relative to the distance and direction to the nearest high mast lights.



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_10-20_HDOT-NAW**

| | |
|--|--|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | October 20, 2023 |
| Date of report: | October 23, 2023 |
| Fatality or Injury: | Found alive, no apparent injuries |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | October 20 (AM) |
| Time Observed (HST): | 21:10 |
| Time Picked Up and By Who: | 21:20 M. Craig |
| General Location: | Nawiliwili Harbor, Pier 1 yard mauka |
| GPS Coordinates: | 21° 57' 26" N, 159° 21' 17" W |
| Closest structure and distance (light, powerline, building): | Stacked containers and fence-line adjacent to Hawaiian Cement parcel |
| Ground Cover Type and Height (cm): | Asphalt |
| Cloud Cover (%): | 5 |
| Weather Conditions (wind speed, direction, rain): | Light trades, NE 10, no precipitation |
| Moon Phase: | Waxing crescent 31% illumination |
| Drop off location (Which aid station or SOS): | Nawiliwili Harbor SOS Aid Station |
| File Name | NESH_2023_10-20_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response):

Alive when found, no apparent injuries.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers):

The shearwater did not exhibit any apparent signs of injuries. Light attraction disorientation likely contributed to grounding. Peak fledging of Newell's shearwaters island-wide, coupled with the new-moon phase favoring attraction to anthropogenic light sources, may be contributing factors.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

KSHCP biologist that made the discovery secured the shearwater, transported and placed it carefully inside the SOS Aid Station. SOS was notified right away.

Additional Notes/Comments:

None.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

Downed Wildlife Incident Reporting Form
LISTED and MBTA SPECIES



Visible in the open Pier 1 yard, this Newell's shearwater, discovered grounded at Nawiliwili Harbor on October 20, 2023, was alive and did not exhibit signs of injury.

Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Wide-scale overview shown in the top image provides reference to the location where a Newell's shearwater was discovered on October 20, 2023. The image below provides distances and directions to the nearest high mast lights relative to where the shearwater was discovered.



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES

Facility Name: **Nawiliwili Harbor**

U.S. Fish and Wildlife Service Incidental Take Permit Number: **TE74138D-0**

Hawaii DLNR Incidental Take License Number: **ITL-30**

Species Common Name: **Newell's shearwater**

Species Scientific Name: ***Puffinus newelli***

Four Letter Code: **NESH**

File Name: **NESH_2023_11-01_HDOT-NAW**

| | |
|--|--|
| Permit Holder: | Hawaii Department of Transportation |
| Observer Name: | Mitchell Craig |
| Report Prepared by: | H. T. Harvey & Associates |
| Date of Incident: | November 1, 2023 |
| Date of report: | November 3, 2023 |
| Fatality or Injury: | Found alive, no injuries reported |
| Age (Adult/Juvenile), if known: | Presumed HY |
| Sex (if known): | |
| Date Area Last Surveyed: | November 1, 2023 (AM) |
| Time Observed (HST): | 22:05 |
| Time Picked Up and By Who: | 22:10 M. Craig |
| General Location: | Nawiliwili Harbor, Pier 3 next to Young Brothers small office building, central yard |
| GPS Coordinates: | 21° 57'07" N, 159° 21'34" W |
| Closest structure and distance (light, powerline, building): | Small office structure, fork-lift, and high mast light (13 meters east) |
| Ground Cover Type and Height (cm): | Asphalt/concrete |
| Cloud Cover (%): | Clear |
| Weather Conditions (wind speed, direction, rain): | Wind negligible 0-5, no precipitation |
| Moon Phase: | Waning gibbous, 85% illumination |
| Drop off location (Which aid station or SOS): | SOS Aid Station, Nawiliwili Harbor |
| File Name | NESH_2023_11-01_HDOT-NAW |
| SOS Reference Number | |

Downed Wildlife Incident Reporting Form **LISTED and MBTA SPECIES**

Condition of Specimen (describe the general condition of the seabird, any visible injuries, please be specific (e.g., disfigured wing, bleeding, distorted motor response):

Found alive, no apparent injuries, exhibited alertness.

Probable Cause of Injuries and Supportive Evidence (describe any potential contributing factors (nearby light sources, evidence of blunt impact, information from observers):

No injuries evident; appeared very active and mobile.

Action Taken Please include names, dates, and times when specific response actions were initiated and how these proceeded:

Carefully rescued the shearwater, placed inside the rescue kit carrier, and moved into the SOS Aid Station at the harbor. SOS and harbor security were notified right away.

Additional Notes/Comments:

The nearest high mast light is located 13 meters east of location where the shearwater was discovered.

Please include the following:

- Photos showing where the downed seabird was discovered
- Up close and vicinity photos to show immediate surroundings
- Nearby structures in the background
- Map showing an aerial representation of where the seabird was discovered, nearby features, roads, structures, and relevant lighting infrastructure, and each labeled as appropriate.

Refer to: *Protocol for Holders of a State of Hawai'i Incidental Take License and U.S. Fish and Wildlife Service Incidental Take Permit Responding to Dead or Injured Birds under the Kaua'i Seabird Habitat Conservation Plan.*

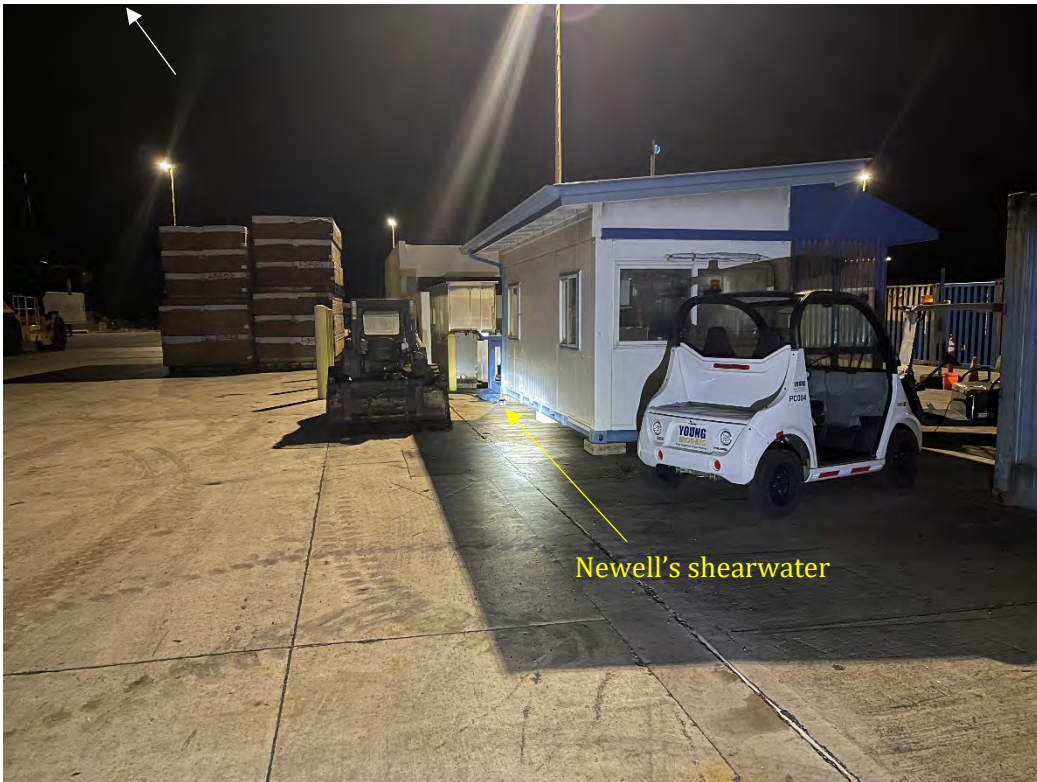
Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Location where a Newell's shearwater (NESH) was discovered in the Pier 3 yard at Nawiliwili Harbor on November 1, 2023 (top) and relative to the nearest high mast light located 13 meters to the east (indicated by the yellow oval below).



Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES



Newell's shearwater

APPENDIX 3
PHOTOS OF LIGHT CONDITIONS AT COVERED FACILITIES

Nawiliwili Harbor



Photo 1. Broad view of Nawiliwili Harbor (Pier 3) showing the distribution of high mast light installations (10 visible in this image).

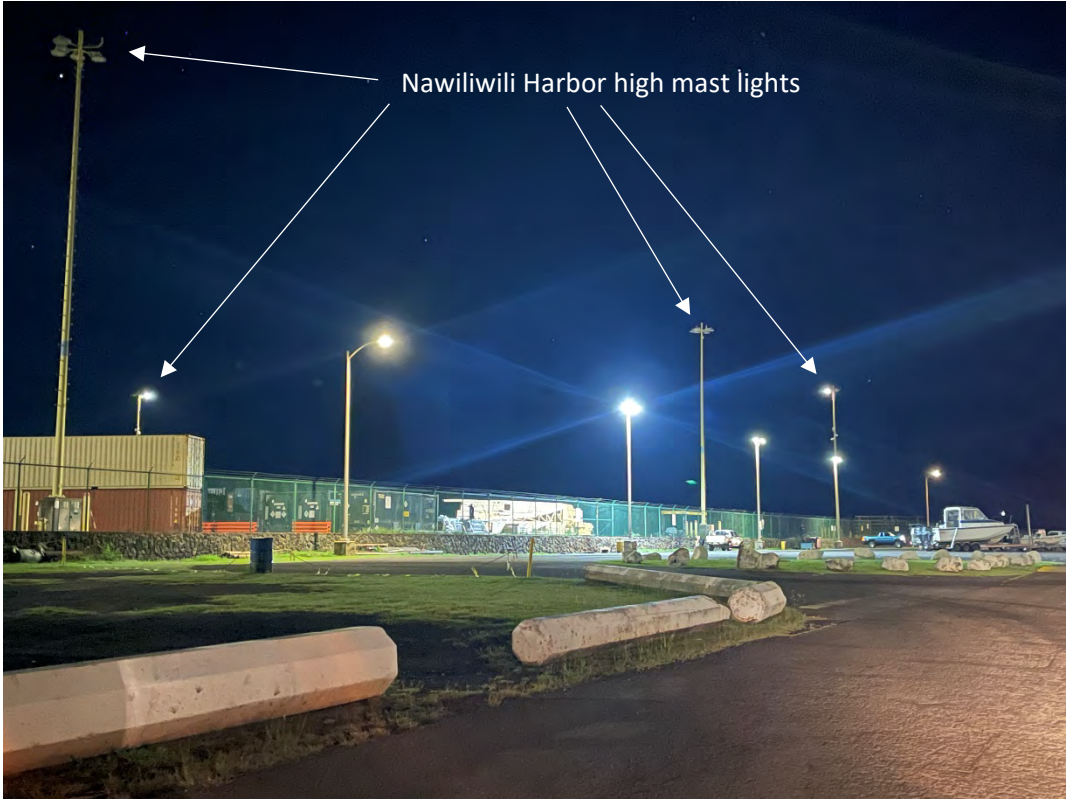


Photo 2. High mast lights along the boundary of Pier 3 and the small boat harbor showing high masts at a lowered security level setting.



Photo 3. Wall-mounted lights illuminating bay doors and bulkhead along Pier 2.



Photo 4. Two high mast lights between Piers 2 and 3 just to the southwest of the Pier 2 warehouse and cruise ship terminal.



Photo 5. Wall mounted light on the side of the Pier 2 warehouse (east side facing Pier 1). This light typically remains on during both operational and security light level settings.



Photo 6. Lighting conditions at Pier 3 during bulk fuel operations.



Photo 7. High mast lights in security setting at Pier 1.



Photo 8. High mast lights in operational setting at Pier 1, Nawiliwili Harbor.