

APPENDIX 1
GENERAL SEARCH ROUTES FOLLOWED

PORT ALLEN HARBOR



H. T. HARVEY & ASSOCIATES
Ecological Consultants

Downed Seabird Search and Monitoring Routes at HDOT Port Allen Facilities

Kauai Seabird Habitat Conservation Plan (4065-04)

January 2022

APPENDIX 2
DOWNED WILDLIFE INCIDENT REPORTS

PORT ALLEN HARBOR

Downed Wildlife Reporting Form

USED for LISTED SEABIRD SPECIES, page 1 of 2

Facility Name: Port Allen Harbor (HDOT)
Species Common Name: Newell's shearwater
Species Scientific Name: *Puffinus newelli*
Four Letter Code: NESH
File Name: NESH_2022-09-29-HDOT-PA
USFWS Permit Number: TE74138D-0 and
Hawaii Incidental Take License Number: ITL-30

Permit Holder:	State of Hawaii, Department of Transportation (HDOT)
Observer Name:	Mitchell Craig
Report Prepared by:	H. T. Harvey & Associates and HDOT
Date of Incident:	September 29, 2022
Date of report:	October 3, 2022
Fatality or Injury:	NO – Alive when found, appeared uninjured
Age (Adult/Juvenile), if known:	Presumed HY
Sex (if known):	
Date Area Last Surveyed:	September 28, 2022 (also pre-dawn September 29)
Time Observed (HST):	22:20
Time Picked Up and By Who:	22:22, Mitchell Craig
General Location:	Just below parking lot along hardened shore near and upland of the spill containment unit
GPS Coordinates	21° 53' 59" N 159° 35' 16" W
Closest structure and distance (e.g., light, powerline, building, etc.):	Port Allen warehouse~25m
Ground Cover Type and Height (cm):	Cement/rock
Cloud Cover (%):	0
Weather Conditions (wind, precipitation)	Winds 0-10 mph, few clouds, little rain
Moon Phase (percent illumination)	Approximately 0.14
Drop off location (Which Aid Station or SOS)	Save Our Shearwaters located at Kauai Extension and Agricultural Center-Wailua
Deceased and Sent for Necropsy (Y/N)	
Photos (Y/N)	Y
File Name	NESH_2022-09-29-HDOT-PA

Downed Wildlife Reporting Form
USED for LISTED SEABIRD SPECIES, page 2 of 2

Condition of Specimen [Describe the seabird's general condition, as well as any visible injuries, be specific (e.g., large cut on right wing tip)]:

Condition appeared healthy and alert; no apparent injuries were observed.

Probable Cause of Injuries and Supportive Evidence [be descriptive (e.g., 'probable light source', 'teeth marks visible on upper back', 'found adjacent to tire marks in mud')]:

No injuries were observed.

Action Taken [include names, dates, and times, if known – whether sent for necropsy]:

HDOT searcher and monitoring ecologist, Mitchell Craig, identified the downed shearwater and initiated proper rescue and response procedures which included delivery of the shearwater to SOS at its new base of operations in upper Wailua.

Additional Notes/Comments:

None.

Please include the following:

- Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled.
- Photos showing the downed bird: a) up close; b) with its immediate surrounding; and c) nearest structures in the background. Include a ruler or measuring device if possible to provide scale.

Downed Wildlife Reporting Form
USED for LISTED SEABIRD SPECIES, page 2 of 2



Location of Newell's shearwater found at Port Allen Harbor (HDOT) on September 29, 2022.

Downed Wildlife Reporting Form
USED for LISTED SEABIRD SPECIES, page 2 of 2



View along the hardened revetment upslope of the spill response container with Newell's shearwater in the foreground at HDOT Port Allen Harbor, Kauai, September 29, 2022.

Downed Wildlife Reporting Form
USED for LISTED SEABIRD SPECIES, page 2 of 2



Broad view of the location and surrounding landscape at the discovery site. The reflective markers at the left run along the boundary of the parking area, upland from the shoreline below.

Downed Wildlife Reporting Form

USED for LISTED SEABIRD SPECIES

Facility Name: **Port Allen Harbor (HDOT)**
 Species Common Name: **Newell's shearwater**
 Species Scientific Name: ***Puffinus newelli***
 Four Letter Code: **NESH**
 File Name: **NESH_2022-10-25-HDOT-PA**
 USFWS Permit Number: **TE74138D-0**
 Hawaii DLNR Incidental Take License Number: **ITL-30**

Permit Holder:	Hawaii Department of Transportation
Observer Name and Affiliation:	Mitchell Craig, H. T. Harvey & Associates
Report Prepared by:	HDOT and H. T. Harvey & Associates
Date of Incident:	October 25, 2022
Date of report:	October 27, 2022
Fatality or Injury:	Found alive, no apparent injury
Age (Adult/Juvenile), if known:	Presumed HY juvenile
Sex (if known):	
Date Area Last Surveyed:	October 24-25, 2022
Time Observed (HST):	21:00
Time Picked Up and By Who:	21:00 (M. Craig) delivered to Kalaheo F.S. SOS Aid Station
General Location:	HDOT Port Allen Harbor outermost portion of the commercial pier along the seaward edge of the warehouse
GPS Coordinates	21° 53' 58" N 159° 35' 23" W
Closest structure and distance (e.g., light, powerline, building, etc.):	Main warehouse, west wall, approximately 1.0 meters
Ground Cover Type and Height (cm):	Pavement
Cloud Cover (%):	100
Weather Conditions (wind, precipitation)	Winds 15-20 mph, cloudy, rain
Moon Phase (percent illumination)	Waning crescent-New moon, 0-0.02 illumination
Drop off location (Which Aid Station or SOS)	Kalaheo Fire Station SOS Aid Station (23:00)
If Deceased, sent for Necropsy (Y/N)	
Photos (Y/N)	Y
File Name	NESH_2022-10-25-HDOT-PA
SOS Reference Number	DCH042

Downed Wildlife Reporting Form

USED for LISTED SEABIRD SPECIES

Condition of Specimen [Describe the seabird's general condition, as well as any visible injuries, be specific (e.g., large cut on right wing tip)]:

The seabird was alive and exhibited normal responsiveness when handled; left eye may have been irritated.

Probable Cause of Injuries and Supportive Evidence [be descriptive (e.g., 'probable light source', 'teeth marks visible on upper back', 'found adjacent to tire marks in mud')]:

Uncertain as to the direct cause of any injuries. A fisherman nearby claimed that the bird had hit the side of the warehouse moments before the trained searcher arrived on scene. Unclear as to whether this is related to apparent eye trauma.

Action Taken [include names, dates, and times, if known – whether sent for necropsy]:

Secured the seabird inside the rescue carrier and transported to the Kalaheo Fire Station and placed securely in the SOS Aid Station.

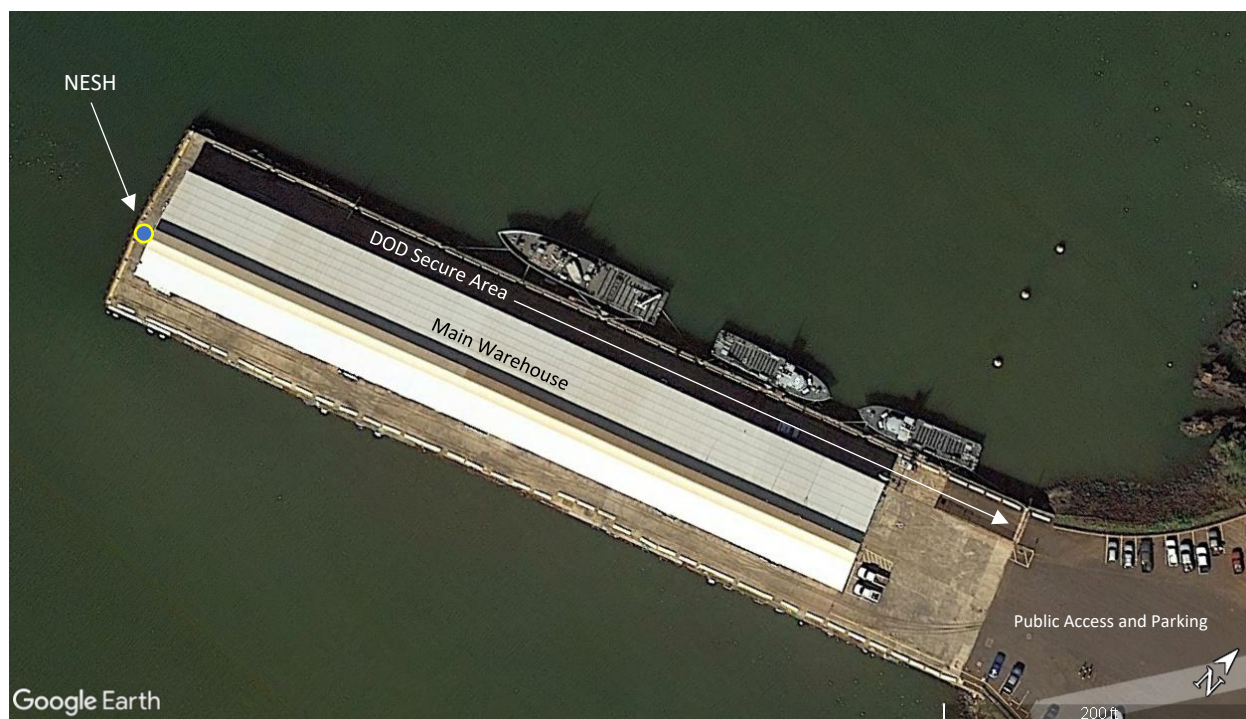
Additional Notes/Comments:

Direct photo-documentation of the shearwater in situ was not possible in this case because at the time of discovery, rescuing the seabird took immediate precedence; the orientation of the seabird when it was discovered, behavior being displayed, and proximity to active fishers suggested the bird might attempt to take flight. The searcher instead focused on rescue and securing the seabird in the carrier for subsequent transport to the SOS Aid Station.

Please include the following:

- Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled.
- Photos showing the downed bird: a) up close; b) with its immediate surrounding; and c) nearest structures in the background. Include a ruler or measuring device if possible to provide scale.

Downed Wildlife Reporting Form USED for LISTED SEABIRD SPECIES



Overview of HDOT's Port Allen Harbor showing relevant features at the facility (top) and at the location where a Newell's shearwater was discovered (shown my oval, below) on October 25, 2022.



Downed Wildlife Reporting Form
USED for LISTED SEABIRD SPECIES



View of the general layout on the west side of the Port Allen Harbor pier. Note the oval indicating the approximate location where the shearwater was discovered near the base of the warehouse.

APPENDIX 3
PHOTOS OF FACILITY LIGHTING

PORT ALLEN HARBOR



Photo 1 (above) presents a view along the south side of the main warehouse and pier at Port Allen Harbor with the newly installed siding and paint. Photo 2 (below) provides a view of the shielding that was installed on the main warehouse light in 2022.





Photo 3 (above) captures the general light conditions with newly installed shielding on the main warehouse light prior to 20:30 at Port Allen Harbor; photo 2 (below) provides a contrasting light regime after 20:30 when the main warehouse light has dampened and every other wall-mounted light has also been turned off.

