#### Kaua'i Seabird Habitat Conservation Plan Annual Report—2023 Company: One Hotel Hanalei Bay

#### Attachments:

- A. Signed Excel-based report
- B. Property map
- C. Training materials
- D. Outreach materials
- E. All individual downed seabird reports
- F. Property photos

		KSHCP Particip	ant Annual Report - Base Foi	rm			Base Form #:	Cover
Reporting Year:	2023	Participant Name:	SOF XI Kauai PV Hotel, LP		here the not for which a Forms are is Complete is left for each Place an "X at right for	cilities, indicate umber of facilities additional Base		Multiple Base Forms ard included for this item.
Item #	Relevant Requirement	_	Info	⊐ rmation Require	ed to be Repo	orted		_
1	KSHCP Section 6.6.1.2a, ITP Section M.i. (N.i), ITL Section II.I.1	Facility Type	1 Hotel Hanalei Bay Formerly: The Princeville Resport Kauai 5520 Ka Haku Road Princeville, HI 96722	Facility Owner:	SOF XI Kauai PV Hotel, LP	Facility Contact Information: (name, phone, email)	Donald "Moki" Okami Director of Loss Prevention 808-645-0144 moki.okami@1 Hotels.com	
2	ITP Section M (N)/ITL Section II.J	ITP Number:	TE74392D-0	ITL Number:	ITL-28		L	N/A
3	KSHCP Section 6.6.2.2(1)	List permitted	incidental take by species fo	」 r this facility. □	For birds, lis	ப் as follows: Fle	edglings (lethal/non-lethal)	
		125/476	Newell's Shearwater	1/1	Band-rum	ped Storm Petro	el	
		6/6	Hawaiian Petrel	N/A	Green Sea Turtle	1		
4	ITP Section J/ITL Section II.D		annual lethal and non-lethal within the approved Participe:	_		gy described in	the HCP and with the	0.9
		16.72	Newell's Shearwater	0	Band-rum	ped Storm Petro	el	
		0.88	Hawaiian Petrel	N/A	Green Sea Turtle	1		
		Lethal Take:	_		<b></b>			
		4.39	Newell's Shearwater	0	Band-rum	ped Storm Petro	el	
		0.23	Hawaiian Petrel	N/A	Green Sea Turtle	1		

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.	1 Hotel Hanalei Bay underwent renovation from 2020–2023 and reopened to guests in March 2023. No changes to the physical layout or operation of the facility are proposed or planned in 2024.
6	KSHCP Section 6.6.1.2c, ITP Section M.iii (N.iii), ITL Section II.I.3.	Check here if additional space Identify any changes to facility management/ownership or other key personnel involved in the KSHCP.	is needed and continue on Add  1 Hotel Hanalei Bay retained Dr. Adrian Gall (ABR, Inc.) in July 2023 to serve as the resort's seabird biologist. Dr. Gall visited the resort prior to seabird fallout season to evaluate lighting and vegetation and to discuss observer training with 1 Hotel's Director of Loss Prevention.  Dr. Gall and ABR staff assisted with updating training materials and preparing downed seabird reports and the KSHCP annual reports. A new seabird search team was hired during seabird season 2023.
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.	Minimization efforts were implemented as described in a revised implementation plan submitted to the agencies in August 2023. This plan followed minimization measures described in the original PIP, taking into account the renovations of the facility completed in March 2023 that increased the search area to include the main reception of the resort that is now open to the sky.
8	KSHCP Section 6.6.1.2e.i, ITP  KSHCP Section 6.6.1.2.e.ii, ITP	Check here if additional space addendum sheet.  Provide map or description of search route  X Check here if map(s) attached Check here if map(s) not attack  Describe the frequency and timing of	(s) used for conducting searches.  c Link: <a href="http://seafile.abrinc.com/d/d23aa4df55644360b279/">http://seafile.abrinc.com/d/d23aa4df55644360b279/</a>
	Section M.v.2 (N.v.2), ITL Section II.I.5.b.	searches conducted at this facility:	searches twice daily: once in the early morning prior to sunrise (04:00–08:30) and once in the evening after sunset (18:30–00:00). Each survey took approximately 2.5–4 hours to complete. Searchers walk the route provided in Attachment A. Additionally, all resort staff search their respective work areas for down seabirds while on duty.

KSHCP Section 6.6.1.2.e.iii, ITP 1 Hotel Hanalei Bay's Director of Loss Prevention is responsible for 10 Describe the personnel involved in search Section M.v.3 (N.v.3), ITL Section efforts at this facility: overseeing the seabird protocols, bird searches and recovery, record II.I.5.c. keeping and submission of draft reports. 1 Hotel Hanalei Bay hired a team of 6 seabird searchers that received KSHCP-approved training. Searchers worked in shifts of two at a time to conduct daily searches during downed bird season. The sole responsibility of dedicated seabird searchers is to conduct seabird and honu searches. The entire Loss Prevention team (14 people) was trained in seabird protocols to assist with the recovery and transfer of any downed birds to SOS. All resort staff are responsible for searching their respective work areas for downed birds during work hours. Resort staff report any found bird to the Loss Prevention team for retrieval. Downed birds are retrieved by the Loss Prevention team or trained seabird searchers. Additional honu searches are conducted by groundskeepers as they rake the beach every morning of the year shortly after daylight. Lifeguards and pool attendants, who are present on or near the beach every day of the year, are also trained to spot honu. Check here if additional space is needed and continue on addendum sheet. KSHCP Section 6.6.1.2.e.iv, ITP On the worksheet provided, complete the Summary Table of search N/A 11 Section M.v.4 (N.v.4), ITL Section efforts for all downed birds and honu nests found. II.I.5.d.

http://seafile.abrinc.com/d/d23aa4df55644360b279/

Provide a copy each Downed Wildlife Incident Documentation and

Check here if any reports are at **Link**:

Reporting Form submitted for this facility.

Χ

12

KSHCP Section 6.6.1.1

13 KSHCP Section 6.6.1.2.e.v, ITP Section M.v.5 (N.v.5), ITL Section II.1.5.e.

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

1 Hotel Hanalei Bay staff conducted downed seabird search and recovery as described above. Searchers found 18 Newell's Shearwaters and one Hawaiian Petrel on the property in 2023. All birds were recovered, delivered to SOS, and subsequently released to the wild. As this was the first year that the property was fully operational since the enactment of the KSHCP in 2020, DOFAW conducted an efficacy trial to estimate searcher detection probabilities. Although 1 Hotel Hanalei Bay was notified via email that 35% of the decoys were found, the report from DOFAW has not yet been provided. Proposed adjustments to improve searcher detection include having the Loss Prevention staff deploy decoys for training purposes in the 3 weeks prior to the start of downed birds season 2024 and deploying decoys periodically throughout the seabird season to evaluate searcher detection

14 KSHCP Section 6.6.1.2.f, ITP Section M.vi (N.vi), ITL Section II.1.6.

Check here if additional space is needed and continue on addendum sheet.

Provide a summary discussion of the results and efficacy of on-site animal control efforts and adaptive management.

In 2023, 1 Hotel Hanalei Bay hired a commercial pest control service to provide predator control on the property. The pest control contractor deployed and checked 4 traps almost daily between 15 September and 15 December 2023 for a total of 364 trap-nights. Resort staff are trained to search for and report predators. Trained searchers and security personnel inspected the grounds of 1 Hotel at least twice daily during the fledging season (September-December) and recorded any predator sightings, reporting them to the pest control agency for adaptive trapping. 1 Hotel posted signs within the property prohibiting the outdoor feeding of cats. There were no changed or unforeseen circumstances that triggered adaptive management changes to minimization measures per the KSHCP Sections 6.9, 6.11, and 6.12.

Check here if additional space is needed and continue on addendum sheet.

15	KSHCP Section 6.6.1.2.g, ITP Section M.vii (N.vii), ITL Section II.1.7.	On the worksheets provided, provide a sum efforts and outreach efforts.	mary of worke	r training
16	KSHCP Section 6.6.1.2.h, ITP Section M.viii (N.viii), ITL Section II.I.8.	Describe any other relevant information that the wildlife agencies may require to verify compliance with the permit issued.	None	
17	ITP Section M.v.6 (N.v.6), ITP Section II.I.5.f.	Check here if additional space is addendum sheet.  Provide nighttime photos of covered proper non-seabird season and during seabird seas  X Check here if photos are attached or linked.	rties or operation	
18	KSHCP 6.6.1.2	Provide photographs illustrating any propose and training or downed bird recovery protogonal training or downed bird recovery protogonal training or downed bird recovery protogonal training or downed bird recovery protog	_	lighting, facility predator control programs, outreach
19	ITP Section M (N)/ITL Section II.I		Link: at triggered re	There were no changed or unforeseen circumstances that triggered adaptive management changes to minimization or mitigation measures per the KSHCP Section 6.9.
		Check here if additional space is addendum sheet.	s needed and cor	ntinue on
20	ITP Section M (N)/ITL Section II.I	If applicable, describe all occurrences of chacircumstances and how they were addresse	_	There were no changed circumstances as defined KSHCP Section 6.11.
		Check here if additional space is addendum sheet.		ntinue on
21	ITP Section M (N)/ITL Section II.I	If applicable, describe any unforeseen circuit	mstances.	There were no unforeseen circumstances as defined KSHCP Sections 6.12.
		Check here if additional space is addendum sheet.	s needed and cor	ntinue on

22

- In 2023, 1 Hotel Hanalei Bay achieved the following biological objectives described in KSHCP Section 5.2: 1.A Avoid and minimize the impacts of the taking of Covered Seabirds due to light attraction by removing or turning off lighting, and altering light structure and function, as specified in its PIP;
- 1.B. Minimize mortality of Covered Seabirds downed due to light attraction by implementing actions to reduce presence of free-roaming seabird predators such as cats and dogs;
- 1.C Minimize mortality of Covered Seabirds downed due to light attraction by conducting annual Worker Seabird Awareness and Response Training, as specified in its PIP; 1.D Minimize mortality of Covered Seabirds downed due to light attraction by implementing seabird awareness outreach to the public, guests, and customers, as specified in PIPs.
- 1.E. Avoid and minimize honu hatchling disorientation due to lighting at beachfront facilities by implementing best lighting practices as specified in its PIPs.
- 1.F Minimize mortality by implementing recovery and release of Covered Seabirds downed due to light attraction through the Save Our Shearwaters (SOS) program

Check here if additional space is needed and continue on addendum sheet.

23	ITP Section M (N)/ITL Section II.I	If applicable, in	dentify any problems that occurred and e handled.	More seabirds were downed on the property, and across Kaua'i, than in any of the previous 3 years. Although all downed birds were recovered and transferred to SOS within 6-8 hours of discovery, the search team was challenged to submit complete downed bird reports during the period of highest fallout. We worked closely with SOS staff to proof records for recovered birds. The biology support team (ABR) is working with the Loss Prevention team to streamline data collection and reporting using apps on hand-held devices. This approach will be implemented for the 2024 seabird season.	
24	ITP Section M (N)/ITL Section II.I	and other info	SHCP financial status, including any KSHCP		N/A
		initigation ree	Check here if additional space is needed and co	ntinue on	
25	KSHCP Section 6.6.1.4	Certification	addendum sheet. 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.  Adusij  Anjali Agarwal, Senior Vice President		N/A
			Insert electronic signature in space above.	- -	

#### Summary of Results of Self Monitoring of Take of Covered Seabirds and Monitoring of Honu Nests

Reporting Year:

2023

SOF XI Kauai PV Hotel, LP

For each downed seabird or honu nest found, make an entry in the table below.

Participant Name:

	Complete these columns for each bird or honu nest found.							Comple	te these colum	ins for each downed seabird found.	Complete	these columns for a	any honu nest found.
					GPS Latitude	GPS Longitude	Species	File Number				Describe Any	
					(decimal	(decimal	(NESH	or Bird	Disposition of	of Bird	Honu Nest	Honu Nest	
	Time		<b>Describe Exact Location Where</b>		degrees, N), if	degrees, W), if	HAPE	Identification	, (Identify SOS	Aid Station or other disposition bird was dead.	Found?	<b>Protection Efforts</b>	<b>Disposition of Nest</b>
Date Found	Found	<b>Property or Facility</b>	Found	Report File Name	available	available	BNAP)	if available	Note whethe	r bird was released by SOS, if known.)	(Yes or No	Implemented	(if known)
10/8/2023	21:00	1 Hotel Hanalei Bay	Seedlings area, first floor next to stairwell	NESH_2023_10_08_1 Hotel_Hanalei	22.219330	-159.497080	NESH	BMH004	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)	No	N/A	N/A
0/10/2023	unknown	1 Hotel Hanalei Bay	"Hotel 8 floor on balcony" via phone "Kolea Room Balcony"	not in ABR records or 1 Hotel records	unknown	unknown	NESH	TAO017	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/9/2023	12:30	1 Hotel Hanalei Bay	Below 4th floor rooms, hillside slope	NESH_2023_10_09_1 Hotel_Hanalei	22.219990	-159.497720	NESH	TAO018	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
10/12/2023	12:57	1 Hotel Hanalei Bay	Kukui Meeting Room	NESH_A_10_12_2023_1 Hotel_Hanalei	22.220680	-159.497120	NESH	BSV386	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/12/2023	19:28	1 Hotel Hanalei Bay	Main Parking Lot 1 HHB	NESH_B_10_12_2023_1 Hotel_Hanalei	22.222168	-159.496729	NESH	EJS016	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
.0/13/2023	unknown	1 Hotel Hanalei Bay	Main Drive Guard Shack	not in ABR records or 1 Hotel records	unknown	unknown	NESH	EJS017	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/14/2023	20:02	1 Hotel Hanalei Bay	"1 hotel - welcome hale"	NESH_10_13_2023_1 Hotel_Hanalei	22.221613	-159.496150	NESH	MPC013	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/14/2023	10:10	1 Hotel Hanalei Bay	Sandbox Bar	NESH_10_14_2023_1 Hotel_Hanalei	22.210410	-159.453110	NESH	MPC014	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/15/2023	unknown	1 Hotel Hanalei Bay	1 hotel welcome hale	not in ABR records or 1 Hotel records	unknown	unknown	NESH	BMH022	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
			Eighth Floor Hallway (in long										
0/16/2023	8:10	1 Hotel Hanalei Bay	hallway next to Kukui Meeting Room)	NESH_10_16_2023_1 Hotel_Hanalei	22.220620	-159.497570	NESH	BMH027	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/17/2023	unknown	1 Hotel Hanalei Bay	1 Hotel "Guard Shack"	not in ABR records or 1 Hotel records	unknown	unknown	NESH	TAO032	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/17/2023	20:58	1 Hotel Hanalei Bay	1st floor main entryway	NESH_10_17_2023_1 Hotel_Hanalei	22.219729	-159.497824	NESH	EJS029	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/18/2023	9:01	1 Hotel Hanalei Bay	9th Floor Main Entry, Porte Cochere	NESH_10_18_2023_1 Hotel_Hanalei	22.220780	-159.497140	NESH	EJS030	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/18/2023	22:53	1 Hotel Hanalei Bay	Main Drive Entryway adjacent to the Guard Shack	NESH_B_10_18_2023_1 Hotel_Hanalei	22.221450	-159.496300	NESH	TAO041	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/19/2023	12:30	1 Hotel Hanalei Bay	thirase	NESH_10_19_2023_1 Hotel_Hanalei	22.220140	-159.497674	NESH	BSV391	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
0/20/2023	7:30	1 Hotel Hanalei Bay	Neighbors Restaurant	NESH_10_20_2023_1 Hotel_Hanalei	22.220510	-159.497360	NESH	MPC037	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
1/11/2023	6:28	1 Hotel Hanalei Bay	Adult Pool	NESH_11_11_23_0628_1 Hotel	22.220066	-159.497160	NESH	MPC054	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
1/12/2023	12:39	1 Hotel Hanalei Bay	Balcony of room 809	NESH_11_12_2023_1239_1 Hotel	22.220680	-159.497120	NESH	BMH052	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
1/22/2023	3:49	1 Hotel Hanalei Bay	Parking lot	NESH 11 22 2023 1 Hotel	22.222081	-159.496604	NESH	EJS084	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			
.1/29/2023	20:14	•		HAPE 11 29 2023 1 Hotel Hanalei	22.220500	-159.497470		TAO085	Released	1 Hotel Hanalei Bay (fka Princeville Hotel)			

<b>Total Number of Downed Seabirds Found:</b>	19	NESH
	1	HAPE
	0	BNAP
		•
Total Number of Honu Nests Found:	0	

#### **Summary of Training Efforts**

Reporting Year:	2023	Participant Name:	SOF XI Kauai PV Hotel, LP	
reporting rear.	2023	i di dicipanti itanic.		
				Method of

					Delivery (e.g.,	<b>Printed Materials or</b>	
				Number of	video, in-	Other Media	
Date of Training	Training Topic	<b>Property or Facility</b>	Training Group	Attendees	person,	Provided	
7/31/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	3	In Person	Power Point	
8/6/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	2	! In Person	Power Point	
8/7/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
8/9/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
8/28/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	F & B	12	! In Person	Power Point	
8/31/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
9/1/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
9/6/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Landscaping	7	' In Person	Power Point	
9/9/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	F & B	13	In Person	Power Point	
9/12/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Finance, F&B,Retail,Seedlings, Human	40	In Person	Power Point	
9/13/2023			Resources, Engineering				
9/14/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Engineering, Searchers, Service Counter	36	In Person	Power Point	
	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	F & B, Service Counter, Finance, Loss	30	In Person	Power Point	
9/15/2023			Prevention				
9/16/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Engineering	1	. In Person	Power Point	
9/17/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	F & B	1	. In Person	Power Point	
9/21/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	2	! In Person, delive	er Power Point	
10/9/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	
11/22/2023	Seabird / Honu Awareness and Response Training	1 Hotel Hanalei Bay	Loss Prevention	1	. In Person	Power Point	

Training

**Summary of Outreach Efforts** 

Reporting Year:

SOF XI Kauai PV Hotel, LP

Participant Name:

Description of Outreach Effort (including Date(s) of Outreach Effort method of delivery)

method of delivery)

Seabird fallout season signage containing

Property or Facility

1 Hotel Hanalei Bay

resort guests and personnel

photos of listed species, contact information for the Director of Loss Prevention, and

instructions not to handle birds

9/15–12/15/2023 Education cards placed in guest rooms 1 Hotel Hanalei Bay Resort guests

1 Hotels\_Bird Messaging\_V31\_2023.pdf

**Printed Materials or Other Media** 

1 Hotel\_downed\_seabird\_flier\_20230809

**Produced** 

Signature:

Anjali Agarwal (Feb 27, 2024 12:27 PST)

Email: aagarwal@starwood.com

8/9/23 to present

# 1Hotel\_KSHCP Participant Draft Annual Report\_20240223

Final Audit Report 2024-02-27

Created: 2024-02-26

By: Pam Odom (podom@abrinc.com)

Status: Signed

Transaction ID: CBJCHBCAABAAwPpQd3Wc1jlp56BDD1YlJ5b9tl8FvXg2

# "1Hotel\_KSHCP Participant Draft Annual Report\_20240223" Hist ory

- Document created by Pam Odom (podom@abrinc.com) 2024-02-26 7:03:01 PM GMT- IP address: 98.96.183.46
- Document emailed to Anjali Agarwal (aagarwal@starwood.com) for signature 2024-02-26 7:03:06 PM GMT
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  Signature Date: 2024-02-27 8:27:04 PM GMT Time Source: server- IP address: 38.104.195.170
- Agreement completed. 2024-02-27 - 8:27:04 PM GMT





#### 1 Hotel Hanalei Bay **Downed Bird Surveys**



Search Route



**Property Boundary** 



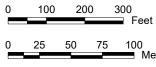
Unsafe to search

Imagery Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Background image WorldView2 at 0.5 meter spatial resolution, acquired October 5, 2018.



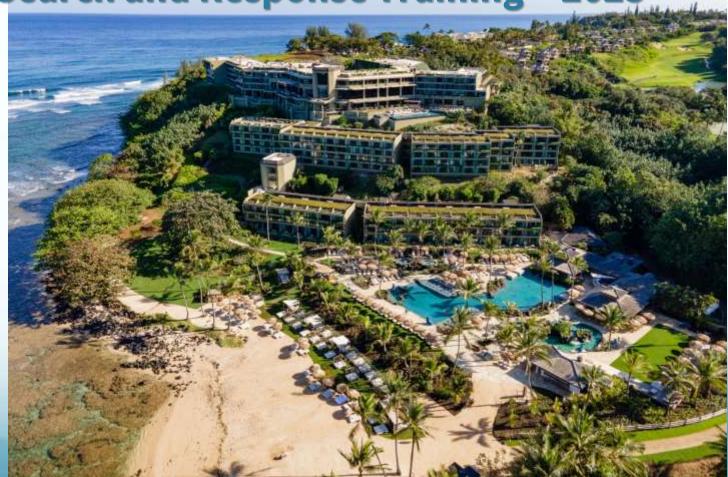


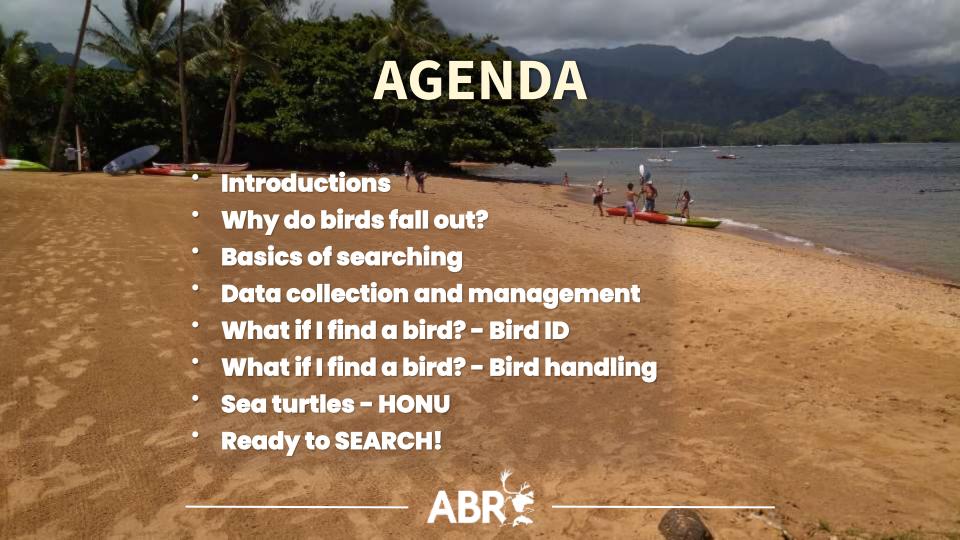
Approximate Scale = 1:3,000



Wildlife Search and Response Training - 2023









Band-rumped Storm Petrel BSTP 'Ake'ake Newell's Shearwater NESH 'A'o



Wedge-tailed Shearwater WTSH 'Ua'u kani





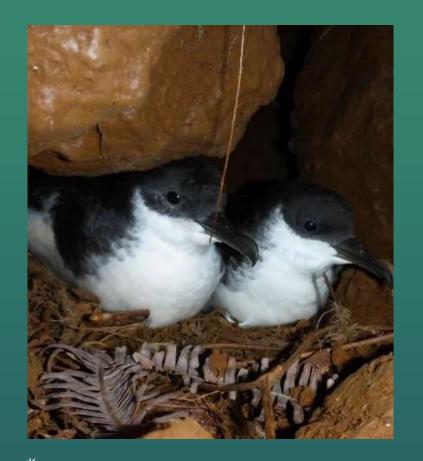
Hawaiian Name: 'A'o English Name: Newell's Shearwater

Scientific Name: Puffinus newelli

Federal Status: Threatened State Status: Threatened

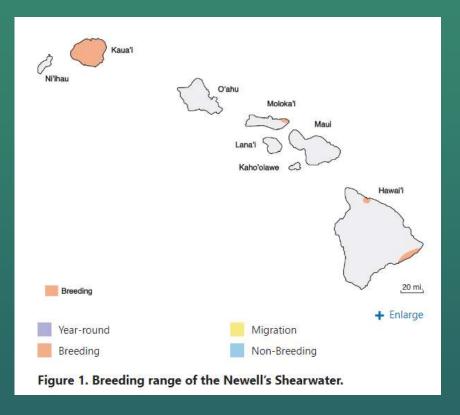
**IUCN Red List:** Critically Endangered

- Thought extinct in 1900s, rediscovered in 1967
- Populations on Kaua'i declined by 78% during 1993-2017
- Historically widespread, now restricted to breeding primarily on Kaua'i





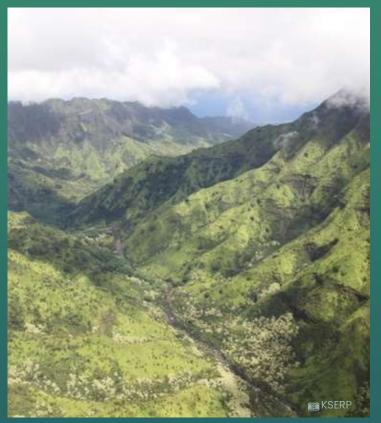
#### Distribution of Newell's Shearwaters





#### **NESTING**

- Nest in burrows under dense vegetation on steep slopes
- Access the colony only when the sun is below the horizon
- Call is described as a donkey braying
- Apparent monogamy and high nestsite fidelity





Hawaiian Name: 'Ua'u English Name: Hawaiian Petrel

Scientific Name: Pterodroma sandwichensis

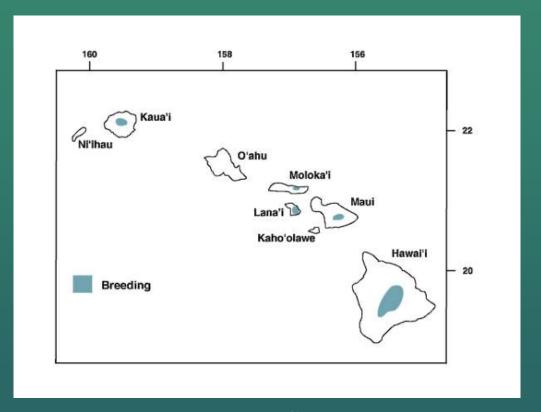
Federal Status: Endangered State Status: Endangered IUCN Red List: <u>Endangered</u>

- ~450-650 breeding pairs
- 7,500-16,600 individuals
- Populations on Kaua'i declined by 78% during 1993-2017
- Population on Maui stable or increasing
- Restricted to breeding at high elevation on Hawai'i, Maui, Kaua'i, Lana'i, and Moloka'i





#### **Distribution of Hawaiian Petrels**





#### **NESTING**

- Nest in burrows in the p\u00e4hoehoe lava at the summit of Haleakala
- Also found beneath dense vegetation on steep slopes
- Access the colony only when the sun is below the horizon
- Call is described as a'-uuuuu-a'-uua'-uu-a'
- Apparent monogamy and high nestsite fidelity

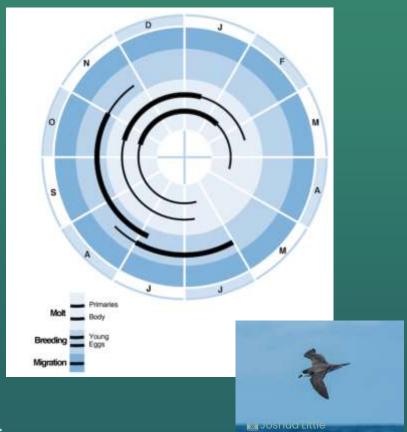
Simons, T. R. and C. N. Bailey (2020). Hawaiian Petrel (Pterodroma sandwichensis), version 1.0. In Birds of the World (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, NY, USA. https://doi.org/10.2173/bow.hawpet1.01





#### **PHENOLOGY**

- Return to colony in late February
- Lay eggs late April and early May
- Hatch early July
- Fledge 8-30 October
- Birds remain at sea November to February





### Why do seabirds fall out?

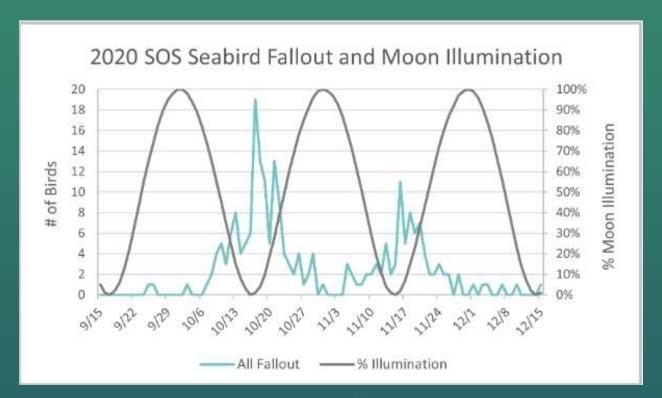
- Seabirds use moonlight and stars for navigation
- Fledgling (keiki) birds on their way to sea for the first time are attracted to lights and can be confused by them
- Adult birds can also be attracted to lights
- Confused birds may collide with structures, or land on the ground too tired to continue flying



Save Our Shearwaters



### Why do seabirds fall out?





### And then what happens?

- Once on the ground they have trouble taking off again
- May die from starvation, collisions, or predation
- Almost 90% of rescued birds can be returned to the wild





#### **Regulatory Protections**

#### **Federal**

- The Endangered Species Act of 1973, as amended (ESA)
- Migratory Bird Treaty Act (MBTA)

#### State of Hawai'i

Hawaii Revised Statutes (Chapter 195-D)

#### IT IS ILLEGAL TO:

"harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" any species listed under any of these statutes



### **Purpose of Training**

- Seabirds may "fall out" on the Resort property 15 September thru 15 December
- 1 Hotel is committed to the protection of these species
- There are legal consequences if these protocols are not followed

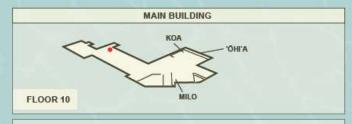


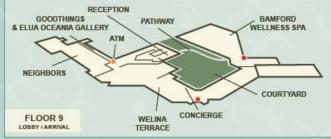


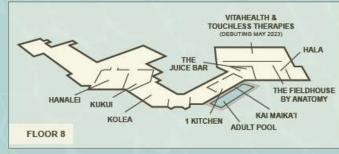


5520 KA HAKU ROAD PRINCEVILLE, HI 96722 (808) 826-9644

@1HOTEL HANALEIBAY



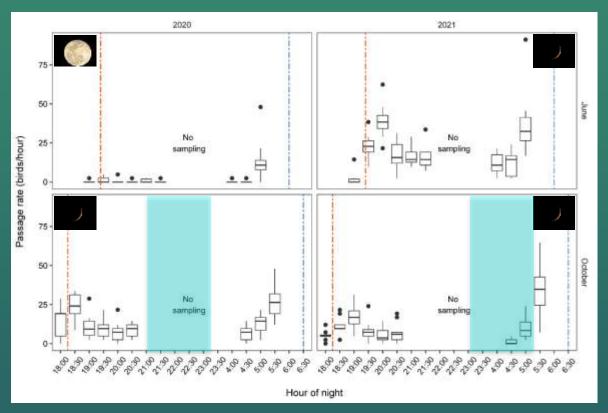








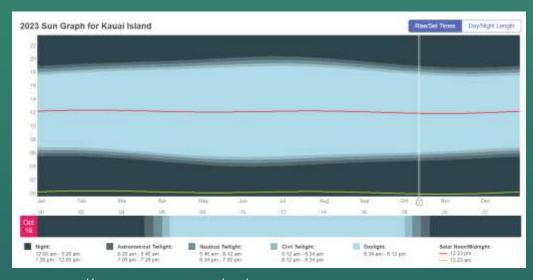
### WHEN TO SEARCH





#### WHEN TO SEARCH

- 3-4 hours after sundown (18:30-17:47 HST)
- 1 hour before sunrise (06:13-06:54 HST)
- Not during hurricanes, thunderstorms, or tsunami warnings
- All employees on alert for downed birds



https://www.timeanddate.com/sun/@5850862



## WHAT TO SEARCH





### **HOW TO SEARCH**

- Walk slowly and carefully, head on a swivel
- Listen carefully
- Check under vegetation, against walls, in corners
- Mindful of concrete or mechanical blind ends
- Near predator congregation areas
- Shine lights slowly
- New moons (15 Sep, 14 Oct, 12 Nov, 12 Dec)





### GEAR LIST - SEARCH

- Handheld flashlight
- Cell phone (camera, GPS)
- Clipboard with data sheets
- Pens and markers
- Sturdy clothes and close-toed shoes
- Safety vest or reflectors
- Extra batteries
- Extra flashlight or a headlamp





### **GEAR LIST - FIND**

- Pet carrier
- Clean towels and cloths to assist with handling birds
- Gallon ziplock bags
- Rubber or latex gloves
- Eye protection
- Hand sanitizer







### **DATA SHEETS**

- Facility map
- Daily search log
- Downed wildlife protocol
- Downed wildlife reporting form
- Contact list





## DATA COLLECTION

- Start-Stop dates and times
- Searchers and data recorder
- Deviations from search protocol
- Birds found
- Predator sightings\*
- Lighting issues







- 1. Call hotel security office
- 2. Review Downed Bird Form\*
- 3. Confirm species ID
- 4. Take photos of bird
  - a. Up close, with item for scale
  - b. With nearest structure
- 5. Collect, alive or dead

	Documentation and Reporting Form BTA SPECIES, page 1 of 2
Facility Name:	
Species Common Name:	<u>_</u> }
Species Scientific Name:	
Petrel, BSTP for Band-rumped Storm-Petre	NESH for Nemell's Shearwater, HAPE for Hawaii 4, and WTSH for Wedge-tailed Shearwater] CODE_YEAR_MM-DD_FACILITY ABBREVIAT
Permit Holder:	
Observer Name	
Report Prepared by:	1
Date of Incident	
Date of report:	
Fatality or Injury:	
Age (Adult Invenile), if known:	
Sex (if known):	
Date Area Last Surveyed:	
Time Observed (HST):	
Time Picked Up and By Who:	0
General Location:	
GPS Coordinates units and datum, prefer GCS WGS84 or NAD83 UTM Zone 4N (specify)	
Closest structure and distance (e.g light, nowerline, building, etc.).	1



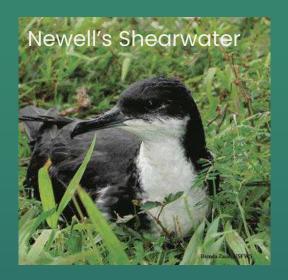
- 3. Confirm species ID
- 4. Take photos of bird
  - a. Up close, with item for scale
  - b. With nearest structure
- 5. Collect, alive or dead

	Ocumentation and Reporting Form STA SPECIES, page 1 of 2
Facility Name:	
Species Common Name:	<u></u>
Species Scientific Name:	
Petrel, BSTP for Band-rumped Storm Petrel File Name: [naming convention: SPECIES)	NESH for Newell'a Shearwater; HAPE for Hawai d, and WTSH for Wedge-tailed Shearwater); CODE_YEAR_MM-DD_FACILITY ABBREVIA:
Permit Holder	
Observer Name	
Report Prepared by:	1
Date of Incident	
Date of report:	
Fatality or Injury.	
Age (Adult Tovenile), if known:	
Sex (if known):	
Date Area Last Surveyed:	
Time Observed (HST):	
Time Picked Up and By Who:	7
General Location:	
GPS Coordinates units and datum, prefer GCS WGS84 or NAD83 UTM Zone 4N (specify)	
Closest structure and distance (e.g light, powerling, building, etc.)	





- Length 43 cm
- Wing 304 mm
- Body mass 434 g
- Black or charcoal gray back
- Underwing white, with black margins and diagonal bar extending across coverts
- Underparts white
- Legs and feet flesh-pink, the distal two-thirds of the webs black



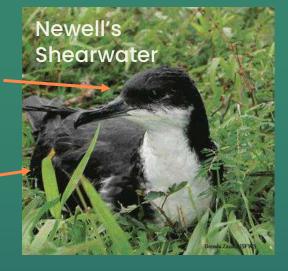
- Length 33 cm
- Wing 237 mm
- Body mass 391 g
- Dark sooty brown or blackish back
- Underwing white
- Underparts white
- Legs and feet white-pink, black outer toes





White forehead Black forehead

Dark flanks with white line
White flanks



- Length 43 cm
- Wing 304 mm
- Body mass 434 g
- Black or charcoal gray back
- Underwing white, with black margins and diagonal bar extending across coverts
- Underparts white
- Legs and feet flesh-pink, the distal two-thirds of the webs black

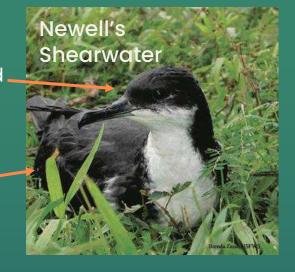
- Length 33 cm
- Wing 237 mm
- Body mass 391 g
- Dark sooty brown or blackish back
- Underwing white
- Underparts white
- Legs and feet white-pink, black outer toes





White forehead Black forehead

Dark flanks with white line
White flanks





Band-rumped Storm Petrel

- Length 19 cm
- Wing 153 mm
- Body mass 34-50 g
- Blackish-brown with clean white band on rump
- Square tail (no notch)
- Underparts pale brown
- Legs and feet black



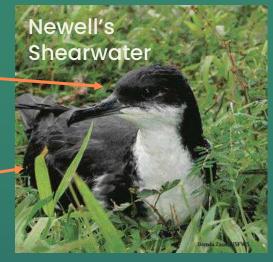


White forehead

Black forehead

Dark flanks with white line

White flanks





Shades of gray with very pink feet NOT ENDANGERED



Wedge-tailed Shearwater



- 5. If alive
  - a. Wear gloves and eye protection
  - b. Have carrier ready with clean towel
  - c. Place towel or cloth gently over bird
  - d. Wrap hands around the body of the bird, keeping wings closed and head covered
  - e. Place in the carrier head first, then remove towel
- 6. Peel off and dispose of gloves, sanitize
- 7. THEN Remove eye protection, if desired



Image: Save Our Shearwaters



- 5. Keep it alive
  - a. Keep it in quiet, shaded, cool location
  - b. Do not handle it more than necessary
  - c. Do not give it food or water
  - d. Do not attempt to release it



Image: Save Our Shearwaters



- 5. If dead
  - a. Wear gloves and eye protection
  - b. Collect and place in a ziploc bag
  - c. Make a label with time, date, your name, and name of the facility and place in bag
  - d. Place first bag in a second bag and label the outside of the bag directly
- 6. Peel off and dispose of gloves, sanitize
- 7. THEN Remove eye protection, if desired



Image: Hawai'i Department of Land and Natural Resource



- 8. Fill out Downed Bird Form
- 9. Call Save Our Shearwaters
- 10. Email ABR. We will
  - Within 24 hours, email USFWS
  - Within 72 hours, submit the downed bird report to USFWS via email

	Documentation and Reporting Form BTA SPECIES, page 1 of 2
Facility Name:	
Species Common Name:	<u></u>
Species Scientific Name:	
Petrel, BSTP for Band-rumped Storm Petre File Name: [naming convention: SPECIES	NESH for Nemell's Shearwater, HAPE for Hawaii d, and WTSH for Wedge-tailed Shearwater] CODE_YEAR_MM-DD_FACILITY ABBREVIAT
Permit Holder:	
Observer Name	
Report Prepared by:	
Date of Incident	
Date of report:	
Fatality or Injury.	
Age (Adult Invenile), if known.	
Sex (if known):	
Date Area Last Surveyed:	
Time Observed (HST):	
Time Picked Up and By Who:	T-
General Location:	
GPS Coordinates units and datum, prefer GCS WGS84 or NAD83 UTM Zone 4N (specify)	
Closest structure and distance (e.g light, nowerling, building, etc.).	



# WHO TO CONTACT

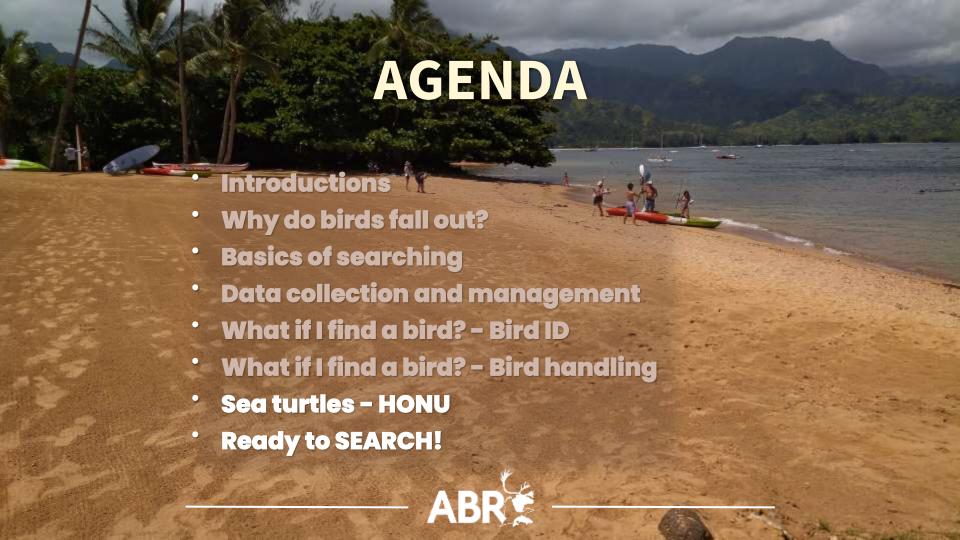
- Security dispatch (808) 826-1245
- Moki (808) 645-0144 moki.okami@1hotel.com
- Save Our Shearwaters
   (808) 635-5117 Hotline
   info@saveourshearwaters.com
- ABR

Adrian Gall agall@abrinc.com

Lauren Attanas lattanas@abrinc.com





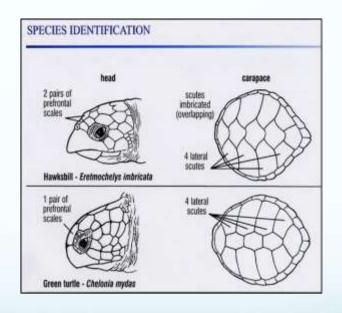


# **Endangered and Threatened Sea Turtle Species**



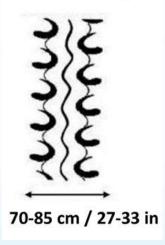
### Sea Turtle Awareness

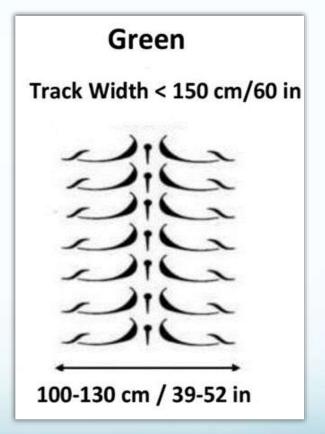
- Two protected species of sea turtles, haul out on beaches on Kauai
  - Pacific hawksbill sea turtle endangered
  - Pacific green sea turtle threatened
- Both species have nested on the Island
- We have had any on our Beach?



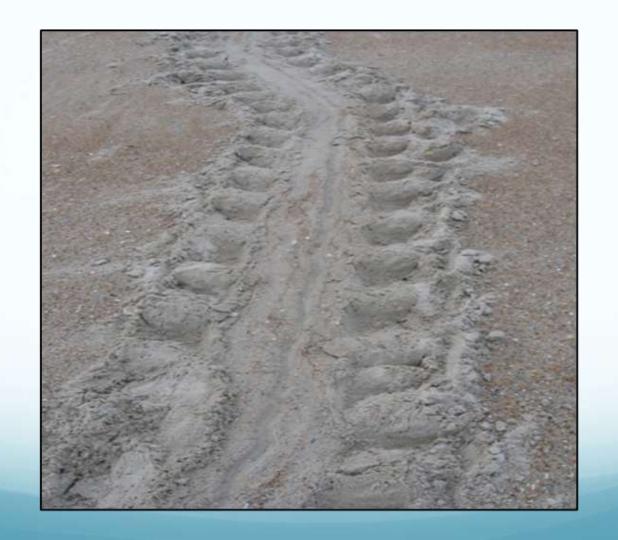
#### Hawksbill

Center Tail Drag\*













# Pu'u Poa Beach Our Beach Area



# Pu'u Poa Beach Our Beach Area





### Finding and Reporting Turtles on the Beach

- All associates that work in areas close to the beach shall report any turtle on the beach immediately to:
  - Donald "Moki" Okami: mobile: (808) 645-0144
  - Loss Prevention Hotline (00) any house phone

1 Hotel LP Staff, staff will immediately contact **the Kaua'i Hotline, staffed by DLNR and NOAA**24/7: 808-651-7668

#### DO NOT HANDLE THE TURTLES

- Follow instructions given them by DOFAW
- If a nest is discovered, all lights near the beach will be turned off until the turtles hatch

### Sea Turtle Reporting Procedures

To report all sea turtle activity, please immediately call to the Kaua'i Hotline, staffed by DLNR and NOAA 24/7: 808-651-7668.

Also send an email with the pertinent information to:

- Jamie Thomton, NOAA: jamie.thomton@noaa.gov
- Mimi Olry, DLNR: mimi.olry@hawaii.gov
- Heather Ylitalo-Ward, DLNR: heather.a.ylitalo-ward@hawaii.gov

Once the response staff have been notified via hotline and email, send a report to the following:

- DOFAW downed wildlife email: dofaw.hcp@hawaii.gov
- Kate Cullison, DOFAW: Katherine.cullison@hawaii.gov
- Jiny Kim, USFWS: Jiny\_kim@fws.gov
- Lindsay Young, Prime Contractor: lindsay@pacificrimconservation.org

Please be advised that resort staff are not permitted to handle listed turtles unless under the direction or supervision of agency staff.

# **MAHALO**









Bird Messaging Postcards

### **BRIEF IN BRIEF**

Kauai is going into Shearwater nesting season (endangered and protected birds) and we need to create an in-room element that asks / tells guests to keep their shades closed so as to not emit any artificial light out of the room that may cause disruption in the bird's flight.

The housekeepers will close everything at turndown, but we need to alert the guest so they don't open everything back up.

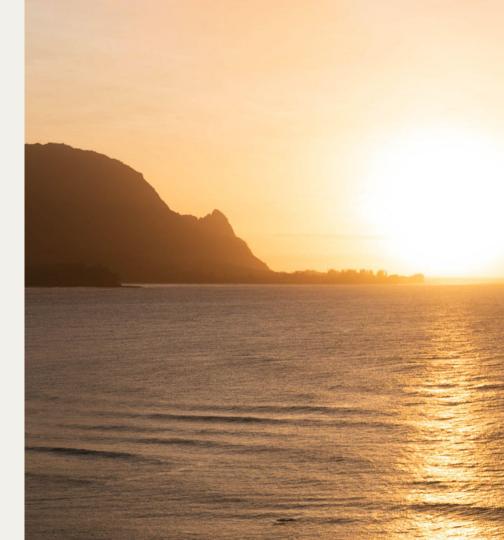
The season lasts from September through December, so we need something reusable and clever to share this message.



### **OVERVIEW**

#### Post Card

- Drawing of Newell's Shearwater Bird
- Printed on Seed Paper
- 4x6 inches



### **OPTION 1A**



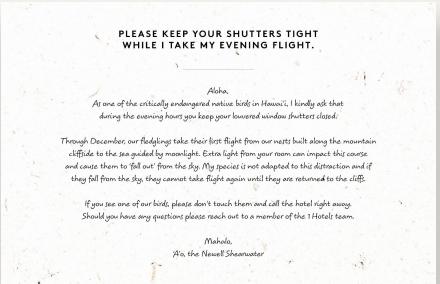


Front Back

BIRD MESSAGING 6

### **OPTION 1B**





Front Back

BIRD MESSAGING

# THANK YOU

II.



# **Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES, page 1 of 2**

Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Hawaiian Petrel

**Species Scientific Name:** Pterodroma sandwichensis

**Four Letter Code:** HAPE

**File Name:** HAPE\_11\_29\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Ross Kimura and Jasmine Asuncion
Report Prepared by:	Moki Okami
Date of Incident:	11.29.2023
Date of report:	11.30.2023
Fatality or Injury:	None
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	11.29.2023
Time Observed (HST):	20:14
Time Picked Up and By Who:	20:14 by Jasmine Asuncion
General Location:	Welina Restaurant/Neighbors Cafe
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22050 N, 159.49747W WGS 84
Closest structure and distance (e.g., light, powerline, building, etc.):	Wooden planter, building
Ground Cover Type and Height (cm):	Tile and vegetation, 130 cm
Cloud Cover (%):	100%
Weather Conditions (include precipitation within the past 24 hours):	Cloudy and rainy, 73 degrees
Moon Phase:	Waning gibbous
Drop off location (Which aid station or SOS):	SOS Shearwater box Compartment #1; picked up by SOS on 11/30

# **Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES, page 2 of 2**

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

Good, just standing in the rain

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Placed in Shearwater Box #1; bird was retrieved by SOS on 11/30.

#### **Additional Notes/Comments:**

#### **Include the following:**

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



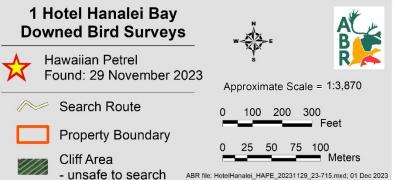
Photo A. Up close.



Photo B. Immediate surroundings.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_10\_13\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Zachary Broadhead
Report Prepared by:	Moki Okami
Date of Incident:	10/13/2023
Date of report:	10/16/2023
Fatality or Injury:	Alive appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/13/2023
Time Observed (HST):	20:02
Time Picked Up and By Who:	20:02 by Zachary Broadhead
General Location:	Main Drive Guard Shack
GPS Coordinates units and datum; prefer: GCS	22.221613 N, 159.49615 W WGS84
WGS84 or NAD83 UTM Zone 4N (specify):	11.555
Closest structure and distance (e.g., light, powerline, building, etc.):	Guard shack
Ground Cover Type and Height (cm):	Cement
Cloud Cover (%):	Partly cloudy
Weather Conditions (include precipitation	Partly cloudy, no rain
within the past 24 hours):	
Moon Phase:	New moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

No Apparent injuries

**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')]: N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Zachary Broadhead was conversing with the gate security guard about Shearwater searches when one landed in front of them.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.



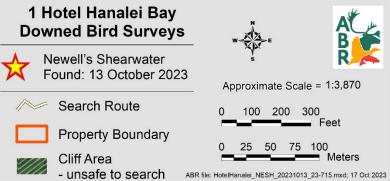
Photo B. Immediate surroundings.



Photo C. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_10\_14\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Ignacio Moreno
Report Prepared by:	Moki Okami
Date of Incident:	10/14/2023
Date of report:	10/16/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/14/2023
Time Observed (HST):	10:10
Time Picked Up and By Who:	10:15 by Ignacio Moreno
General Location:	Sandbox Bar
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.21041 N, 159.45311 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building
Ground Cover Type and Height (cm):	Cement, 100 cm
Cloud Cover (%):	0% (Clear)
Weather Conditions (include precipitation within the past 24 hours):	Clear, no rain
Moon Phase:	New moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #7

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Ignacio Moreno was conducting area patrols and observed shearwater on the bar . The bird was placed in the 1 Hotel drop box #7, and SOS was called by Ignacio Moreno

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



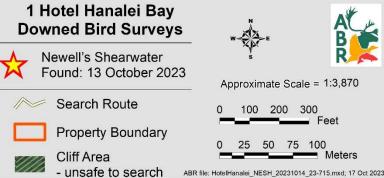
Photo A. Up close and immediate surroundings.



Photo B. Nearest structures.







ABR file: HotelHanalei\_NESH\_20231014\_23-715.mxd; 17 Oct 2023

Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater (probable)

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

Four Letter Code: NESH

File Name: NESH\_10\_16\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Mark Keidser
Report Prepared by:	Moki Okami
Date of Incident:	10/16/2023
Date of report:	10/16/2023
Fatality or Injury:	Alive appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/16/2023
Time Observed (HST):	08:10
Time Picked Up and By Who:	08:20 by Mark Keidser
General Location:	Eighth Floor Hallway in long hallway next to Kukui
	meeting room
GPS Coordinates units and datum; prefer: GCS	22.22062 N, 15949757 W
WGS84 or NAD83 UTM Zone 4N (specify):	WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building
Ground Cover Type and Height (cm):	Concrete
Cloud Cover (%):	Mostly Clear
Weather Conditions (include precipitation	Clear No rain
within the past 24 hours):	
Moon Phase:	New Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Mark Keidser, while finishing his shearwater searches, discovered this NESH at the end of a dark hallway near Kukui Meeting Room.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.



Photo B. Immediate surroundings.

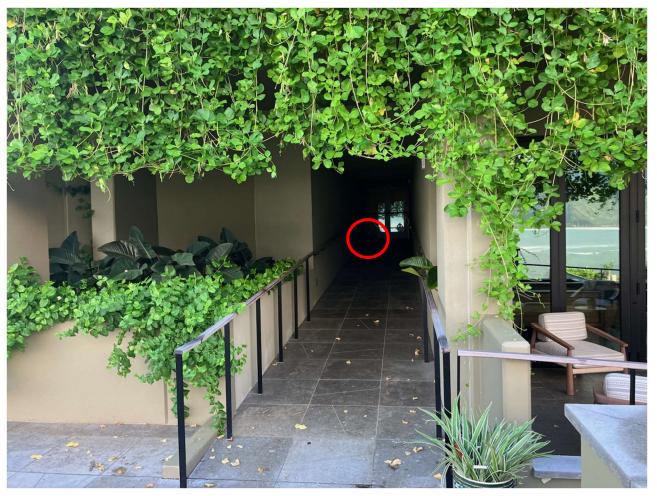
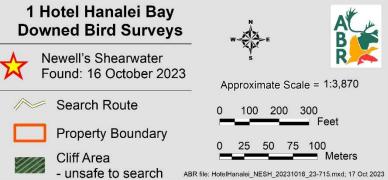


Photo B. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater (probable)

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

Four Letter Code: NESH

File Name: NESH\_10\_17\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Jasmine Asuncion
Report Prepared by:	Moki Okami
Date of Incident:	10/17/2023
Date of report:	10/17/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/17/2023
Time Observed (HST):	8:58 PM
Time Picked Up and By Who:	8:58 PM Jasmine Asuncion
General Location:	1 <sup>st</sup> floor main entryway
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.219729 N, 159.497824 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building 30 ft (9.1 m)
Ground Cover Type and Height (cm):	Concrete
Cloud Cover (%):	Mostly Clear
Weather Conditions (include precipitation	Clear No rain
within the past 24 hours):	
Moon Phase:	No Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay SOS Aid Station Box #1

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Jasmine, while conducting Shearwater searches, recovered the bird on the walkway. Placed in SOS Shearwater recovery box #1

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



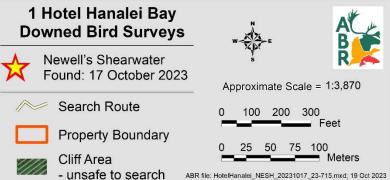
Photo A. Up close.



Photo B. Immediate surroundings.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_10\_18\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Ross Kimura and Jess the Lanscaper
Report Prepared by:	Moki Okami
Date of Incident:	10/18/2023
Date of report:	10/18/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/18/2023
Time Observed (HST):	9:01 AM
Time Picked Up and By Who:	9:10 AM Ross Kimura
General Location:	9 <sup>th</sup> Floor Main Entry, Porte Cochere
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22078 N, 159.49714 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building 5 ft (1.5 m)
Ground Cover Type and Height (cm):	Dirt
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation within the past 24 hours):	Clear, no rain
Moon Phase:	No Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay SOS Aid Station Box #10

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Landscaper Jess discovered the bird while trimming plants. Ross Kimura recovered the Bird and placed it int the portable carrier. Placed in SOS Shearwater recovery box #1

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.

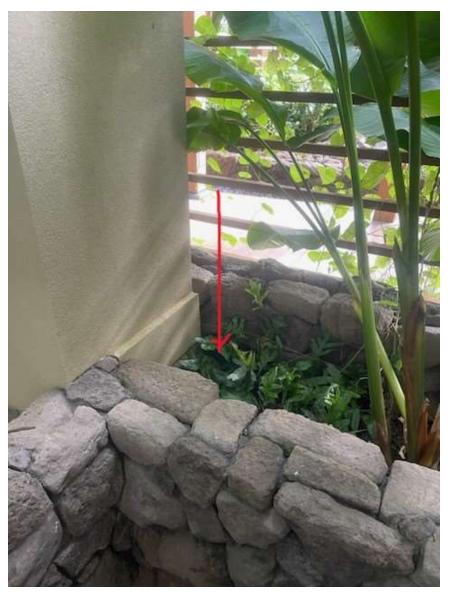


Photo B. Immediate surroundings.



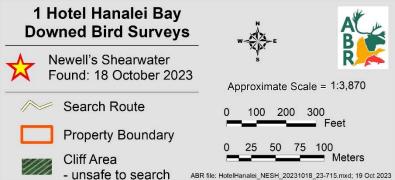
Photo C1. Nearest structures.



Photo C2. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_10\_19\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Landscaper Ardon
Report Prepared by:	Moki Okami
Date of Incident:	10/19/2023
Date of report:	10/19/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/19/2023
Time Observed (HST):	12:30
Time Picked Up and By Who:	12:40 by Ignacio Moreno
General Location:	4 <sup>th</sup> Floor Access gate off of staircase
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.220140 N, 159.497674 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Staircase Cement 1 ft (0.3 m)
Ground Cover Type and Height (cm):	Dirt, vegetation (30 cm)
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Clear, no rain
within the past 24 hours):	
Moon Phase:	New Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay SOS Aid Station Box #7

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Landscaper Ardon discovered the Bird while trimming plants. Ignacio Moreno recovered the Bird and placed it int the portable carrier.

Placed in SOS Shearwater recovery box #7

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close

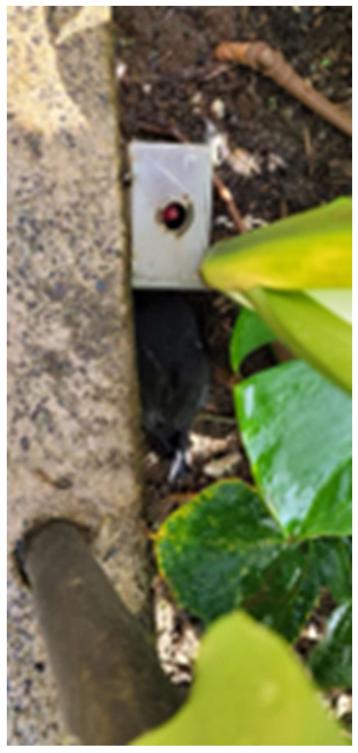


Photo B. Immediate surroundings



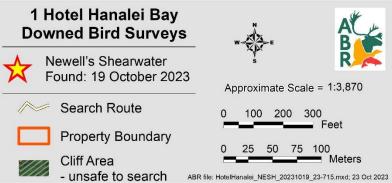
Photo C1. Nearest structures.



Photo C2. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_10\_20\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Neighbors Café Manager Phillipe
Report Prepared by:	Moki Okami
Date of Incident:	10/20/2023
Date of report:	10/20/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/19/2023
Time Observed (HST):	07:30
Time Picked Up and By Who:	07:35 by Mark Keider
General Location:	Neighbors Restaurant
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22051 N, 159.49736 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building, 0 ft (0 m)
Ground Cover Type and Height (cm):	Tile
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Clear, no rain
within the past 24 hours):	
Moon Phase:	New Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay SOS Aid Station Box #7

No apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Restaurant Manager Phillipe discovered the Shearwater in the Café while working and stated it just appeared. Bird was placed in 1Hotel Hanalei Bay SOS Aid Station Box 7.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.





Photo A. Up close.

Photo B. Immediate surroundings.



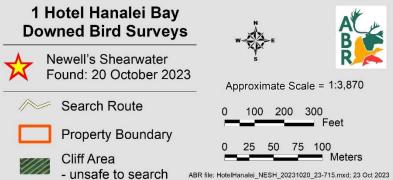


Photo C1. Nearest structures.

Photo C2. Nearest structures.







Facility Name: 1Hotel Hanalei Bay

Species Common Name: Newell's Shearwater Species Scientific Name: *Puffinus newelli* 

Four Letter Code: NESH

**File Name:** NESH\_11\_11\_23\_0628\_1Hotel

Permit Holder:	1 Hotel Hanalei Bay
	Rick Goetz
Observer Name:	
Report Prepared by:	Moki Okami
Date of Incident:	11/11/2023
Date of report:	11/12/2023
Fatality or Injury:	N/A
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	11/12/2023
Time Observed (HST):	06:28
Time Picked Up and By Who:	06:35 by Ignacio Moreno
General Location:	Adult Pool
GPS Coordinates units and datum; prefer: GCS	22.220066° N, 159.49716° W
WGS84 or NAD83 UTM Zone 4N (specify):	WGS 84
Closest structure and distance (e.g., light, powerline, building, etc.):	Pool
Ground Cover Type and Height (cm):	Water
Cloud Cover (%):	0%
Weather Conditions (include precipitation	Clear, 72 degrees, no precipitation
within the past 24 hours):	
Moon Phase:	Waxing crescent
Drop off location (Which aid station or SOS):	SOS Aid Station, 1 Hotel, Box #1

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

Seabird in very good condition; very active

**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')]: N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Seabird placed in SOS recovery hold are until picked up (Holding compartment #1)

Molly Bache confirmed species ID; SOS bird ID = MPC054

#### **Additional Notes/Comments:**

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.

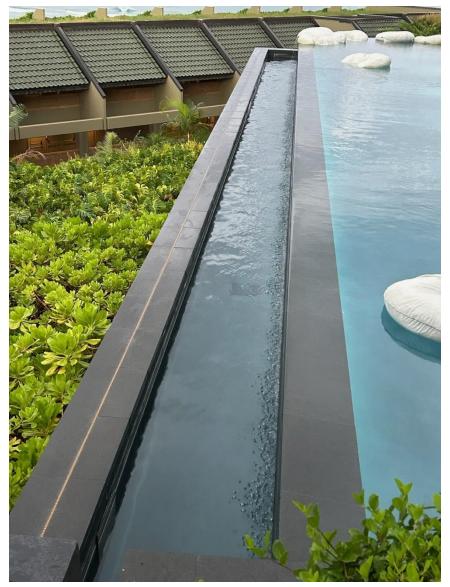
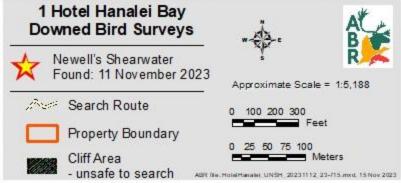


Photo B. Immediate surroundings (no bird pictured).







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

**File Name:** NESH\_11\_12\_2023\_1239\_1Hotel

Permit Holder:	1Hotel Hanalei Bay
Observer Name:	Housekeeper cleaning the room
Report Prepared by:	Moki Okami
Date of Incident:	11.12.2023
Date of report:	11.13.2023
Fatality or Injury:	No Fatality, Injury TBD
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	11.12.2023
Time Observed (HST):	12:39
Time Picked Up and By Who:	Rick Goetz 12:39
General Location:	Balcony of room 809
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22068 N -159.49712 W WGS 84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building, 1 ft
Ground Cover Type and Height (cm):	Wood
Cloud Cover (%):	50%
Weather Conditions (include precipitation within the past 24 hours):	Partly cloudy, 77 degrees, west winds
Moon Phase:	New Moon
Drop off location (Which aid station or SOS):	1Hotel SOS Aid station (box number unknown)

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

Seabird in very good condition very active

**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')]: N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Seabird placed in SOS recovery hold are until picked up (Holding compartment #[UNKNOWN]

#### **Additional Notes/Comments:**

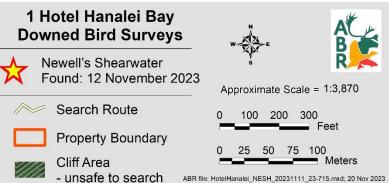
- -Photos showing the downed bird: a) up close; b) with its immediate surrounding; and c) nearest structures in the background. Include a ruler or measuring device to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures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



Photo A. Up close.







Facility Name:\_1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_11\_22\_2023\_1Hotel

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Daniel (Guard Shack)
Report Prepared by:	Moki Okami
Date of Incident:	11.22.2023
Date of report:	11.23.2023
Fatality or Injury:	None known
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	11.22.2023
Time Observed (HST):	03:49
Time Picked Up and By Who:	03:49 by Jasmine Asuncion
General Location:	Parking Lot
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.222081N, 159.496604W WGS 84
Closest structure and distance (e.g., light, powerline, building, etc.):	Wooded Apartment, 30 ft
Ground Cover Type and Height (cm):	Pavement (Asphalt ), 0 cm
Cloud Cover (%):	100
Weather Conditions (include precipitation within the past 24 hours):	Rainy, cloudy, 71 degrees
Moon Phase:	Waxing gibbous
Drop off location (Which aid station or SOS):	SOS Shearwater Aid Station, Compartment #1

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

Good Just standing in the rain

**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')]:

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Placed in Shearwater Box #1

### **Additional Notes/Comments:**

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.



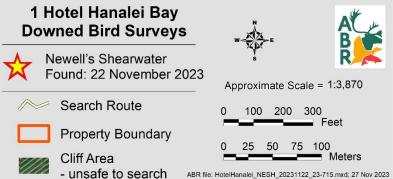
Photo B. Immediate surroundings.



Photo C. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_2023\_10\_08\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Leighton Silva
	Moki Okami
Report Prepared by:	
Date of Incident:	10/08/2023
Date of report:	10/09/2023
Fatality or Injury:	Alive appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/08/23
Time Observed (HST):	21:00
Time Picked Up and By Who:	21:00 by Leighton Silva
General Location:	Seedlings area, first floor next to stairwell
GPS Coordinates units and datum; prefer: GCS	22.21933 N, 159.49708 W
WGS84 or NAD83 UTM Zone 4N (specify):	WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building
Ground Cover Type and Height (cm):	Dirt and foliage
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Clear, no rain
within the past 24 hours):	
Moon Phase:	Waning Crescent
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

No apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Leighton Silva, Loss Prevention Officer, was conducting seabird searches and saw the bird shuffling around on the ground next to stairwell on first floor Southsider of hotel. The bird was placed in the 1 Hotel drop box #1 and SOS was called by Moki Okami.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A1. Up close.



Photo A2. Up close.



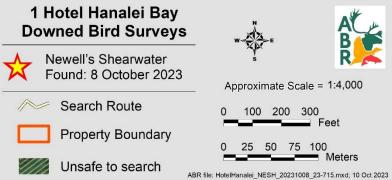
Photo B. Immediate surroundings.



Photo C. Nearby structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_2023\_10\_09\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Jess, landscaper
Report Prepared by:	Moki Okami
Date of Incident:	10/09/2023
Date of report:	10/09/2023
Fatality or Injury:	Alive appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	Hillside outside of search area
Time Observed (HST):	12:30
Time Picked Up and By Who:	12:35 Moki Okami
General Location:	Below 4th floor rooms, hillside slope
GPS Coordinates units and datum; prefer: GCS	22.21999 N, 15949772 W
WGS84 or NAD83 UTM Zone 4N (specify):	WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building/hillside
Ground Cover Type and Height (cm):	Dirt
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Clear, no rain
within the past 24 hours):	
Moon Phase:	Waning Crescent (found during daylight hours)
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

No apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Moki Okami received the call from a landscaper Jess who spotted the bird on the hillside and didn't want to get it because of the steep sloping angle of the hill. Moki Okami, assuming the bird has been there in the sun and was not doing well, climbed the hill to retrieve the bird. The bird was placed in the 1 Hotel drop box #1 and SOS was called by Moki Okami.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A1. Up close.



Photo A2. Up close.



Photo B. Immediate surroundings.



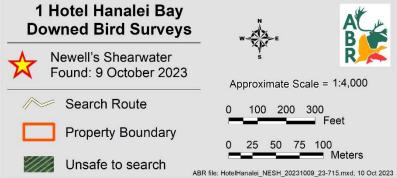
Photo C1. Nearest structures.



Photo C2. Nearest structures.







Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

**File Name:** NESH\_A\_2023\_10\_12\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Mo Unutoa
Report Prepared by:	Moki Okami
Date of Incident:	10/12/2023
Date of report:	10/16/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/12/2023
Time Observed (HST):	12:57
Time Picked Up and By Who:	13:05 Leighton Silva
General Location:	Kukui Meeting Room
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22068 N, 159.49712 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building
Ground Cover Type and Height (cm):	Concrete
Cloud Cover (%):	0%
Weather Conditions (include precipitation	Mostly sunny, no rain
within the past 24 hours):	
Moon Phase:	Waning Crescent
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

No apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Mo Unutoa and Leighton Silva, Loss Prevention Officer, were conducting seabird searches and observed shearwater . The bird was placed in the 1 Hotel drop box #1, and SOS was called by Moki Okami.

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.



Photo A. Up close.

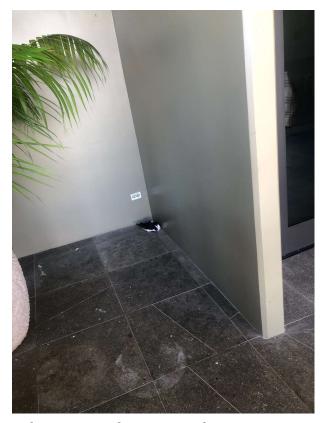


Photo B. Immediate surroundings.



Photo C1. Nearest structures.

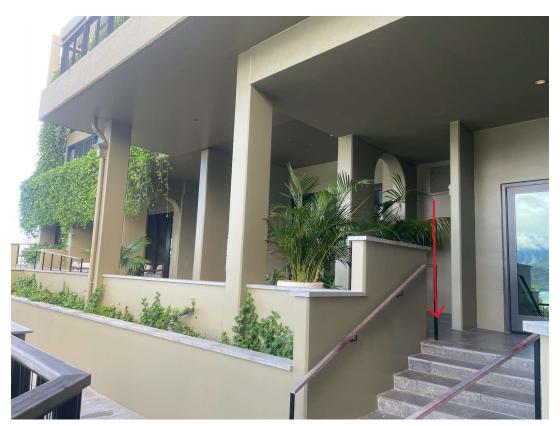
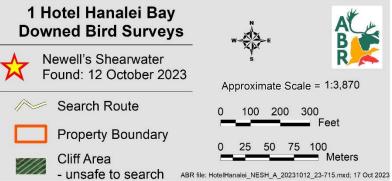


Photo C2. Nearest structures.







## Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES, page 1 of 4

Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater **Species Scientific Name:** *Puffinus newelli* 

Four Letter Code: NESH

File Name: NESH\_B\_10\_12\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Zachary Broadhead
Report Prepared by:	Moki Okami
Date of Incident:	10/12/2023
Date of report:	10/16/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/12/2023
Time Observed (HST):	19:28
Time Picked Up and By Who:	19:28 by Zachary Broadhead
General Location:	Main Parking Lot 1 HHB
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.2221680° N, 159.4967290° W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Cars in parking lot
Ground Cover Type and Height (cm):	Asphalt
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Mostly clear, no rain
within the past 24 hours):  Moon Phase:	Waning Crescent
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay aid station Box #1

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

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Zachary Broadhead was conducting seabird searches and observed the shearwater in the parking lot. The bird was placed in the 1 Hotel drop box #1 and SOS was called by Moki Okami.

## **Include the following:**

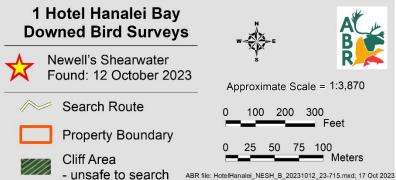
- -Photos showing the downed bird: a) up close; b) with its immediate surrounding; and c) nearest structures in the background. Include a ruler or measuring device to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures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



Photo A. Up close with immediate surroundings.







## Downed Wildlife Incident Reporting Form LISTED and MBTA SPECIES, page 1 of 4

Facility Name: 1 Hotel Hanalei Bay

**Species Common Name:** Newell's Shearwater (probable)

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

Four Letter Code: NESH

**File Name:** NESH\_B\_10\_18\_2023\_1Hotel\_Hanalei

Permit Holder:	1 Hotel Hanalei Bay
Observer Name:	Jasmine Asuncion
Report Prepared by:	Moki Okami
Date of Incident:	10/18/2023
Date of report:	10/20/2023
Fatality or Injury:	Alive, appears uninjured
Age (Adult/Juvenile), if known:	Unknown
Sex (if known):	Unknown
Date Area Last Surveyed:	10/18/2023
Time Observed (HST):	22:53
Time Picked Up and By Who:	22:53 by Jasmine Asuncion
General Location:	Main Drive Entry way adjacent to the guard shack
GPS Coordinates units and datum; prefer: GCS WGS84 or NAD83 UTM Zone 4N (specify):	22.22145 N, 159.49630 W WGS84
Closest structure and distance (e.g., light, powerline, building, etc.):	Building, 10 feet (3 m)
Ground Cover Type and Height (cm):	Metal
Cloud Cover (%):	Mostly clear
Weather Conditions (include precipitation	Clear, no rain
within the past 24 hours):	
Moon Phase:	New Moon
Drop off location (Which aid station or SOS):	1 Hotel Hanalei Bay SOS Aid Station Box 1

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

No Apparent injuries

**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')]:

N/A

**Action Taken** [include names, dates, and times, whether sent for necropsy]:

Jasmine Asuncion, Shearwater Searcher, recovered a Shearwater at the main drive adjacent to the guard shack during searches. Placed in SOS Shearwater recovery box #1

## **Include the following:**

- -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 to provide scale.
- -Map showing aerial imagery with location of found animal, search area polygon, nearby features, roads, and structures labeled where applicable.





Photo A1. Up close.

Photo A2. Up close.



Photo B. Immediate surroundings and nearest structures.





