Kaua'i Seabird Habitat Conservation Program (KSHCP)

Participant Inclusion Plan (PIP)

Name of Applicant/Participant Alexander & Baldwin, Inc.



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PART 1: Landowner & Property Information; Description of the Facilities; Avoidance & Minimization Measures; Monitoring of Take

Item 1. Provide the name of the landowner, business, agency, or institution and complete contact information. If the applicant/participant is different from the landowner, please attach power of attorney (or other documentation) allowing the party to act on the landowner's behalf.

Participant/Applicant Name: Alexander & Baldwin, Inc.

(including its subsidiaries/related

entities:

A & B Properties Hawaii, LLC Alexander & Baldwin, LLC McBryde Sugar Company, LLC McBryde Resources, Inc.

ABP LR1 LLC ABP LR2 LLC ABP LR3 LLC

Kukui'ula Village LLC
ABP Waipouli LLC

KDC, LLC

Kukui'ula Development Company

(Hawaii), LLC)

Physical Address/Location of Facility: Various (see Item 2)

Mailing Address: 822 Bishop Street

Honolulu, HI 96813

Primary Contact: Ownership Name: Sean M. O'Keefe

Address: PO Box 266

Puunene, HI 96784

Email: sokeefe@abhi.com
Telephone: (808) 283-8907

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Address: 822 Bishop Street

Honolulu, HI 96813

Telephone: (808) 525-6611 Email: nchun@abhi.com

Preparer Contact: Name: Lisa A. Bail, Esq.

Address: Goodsill Anderson Quinn & Stifel LLP

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Honolulu, HI 96813

Email: lbail@goodsill.com
Telephone: (808) 547-5787

Preparer Contact: Name: Reginald David

Address: Rana Biological Consulting, Inc.

P.O. Box 1371

Kailua-Kona, HI 96740

Email: <u>davidr003@hawaii.rr.com</u>

Telephone: (808) 937-0124

Item 2. Provide the legal description of the property at which the existing facilities and Covered Activities are located, including Tax Map Key (TMK) number. Provide a survey of the property and site plan drawings showing the locations of the Covered Activities (lights), property boundaries, buildings & structures, and site features. If properties containing the Covered Activities comprise separate parcels please include all Tax Map Key numbers and maps.

The following A&B facilities are proposed for inclusion. Copies of the TMK maps and site plans for the properties below are included in Appendix A. Lighting information is indicated in Tables 1(a) through 1(m) below.

	Property Name/Description	Owner	TMK Number	Size
a.	Port Allen Solar Farm (solar power array)	McBryde Sugar	(4) 2-1-001:051	20 acres
	McBryde Resources, Inc. operator	Company LLC		
b.	Port Allen Center I and II	A & B Properties	(4) 2-1-003:004	2.67
	(commercial/warehouse facilities)	Hawaii, LLC		acres
c.	Port Allen south parcels	A & B Properties	(4) 2-1-003:029	
		Hawaii, LLC	(BEI parcel)	0.813
				acres
			(4) 2-1-003:030	
			(shore parcel)	1.283
				acres
d.	Port Allen parking lots	Alexander &	(4) 2-1-003:025	0.6614
		Baldwin LLC		acres
			(4) 2-1-003:026	1.2618
				acres
e.	Port Allen Steel Warehouse	A & B Properties	(4) 2-1-003:028	3.598
	(commercial/warehouse facilities)	Hawaii, LLC		acres
f.	Port Allen Marina Center	A & B Properties	(4) 2-1-003:040	1.71
	(commercial/retail center)	Hawaii, LLC		acres
g.	Pump 3 Hanapepe Valley (irrigation pump	McBryde Sugar	(4) 2-1-001:010	0.45
	station) McBryde Resources, Inc. operator	Company, LLC	(portion)	acres (of
				123.0683
				acres)
h.	Kalaheo Powerhouse (hydroelectric plant)	McBryde Sugar	(4) 2-4-016:013	0.6 acres
	McBryde Resources, Inc. operator	Company, LLC	portion	(of
				48.064
				acres)
i.	Wainiha Powerhouse (hydroelectric plant)	McBryde Sugar	(4) 5-8-003:003	1.5 acres
	McBryde Resources, Inc. operator	Company LLC	portion	(of 30.87
				acres)

j.	Hokulei Shopping Village (shopping center)	ABP LR1 LLC	(4) 3-3-003:046,	14.598
		ABP LR2 LLC	049, 050, 051,	acres
		ABP LR3 LLC	052, 053	
k.	The Shops at Kukui`ula (retail center)	Kukui`ula Village	(4) 2-6-015:010	10.241
		LLC		acres
I.	Waipouli Town Center, Kapaa (shopping	ABP Waipouli LLC	(4) 4-3-008:002	4.267
	center)			acres
m.	Kukui`ula Development (Plantation	KDC, LLC	(4) 2-6-019:031	15.264
	Core/The Club)		(Plantation	acres
			Core)	

This Participant Inclusion Plan uses the foregoing letter identifications to reference the above properties throughout this document. For example, the Port Allen Solar Farm will be referenced in Table 1(a), 2(a), 3(a), etc. and Kukui'ula Development will be referenced in table 1(m), 2(m), 3(m), etc.



Item 3. Describe the existing Covered Activities for which incidental take authorization is sought. Include list of buildings, type and description of lights present, purpose and location of lights and current seabird lighting accommodation in place (e.g. shielding, downward pointing, switched off during fledging season etc.). For "Types of lights" please use the following categories:

- Parking Lights
- Signage Illumination
- Wall-pack Building Lights
- Landscaping/Grounds/Accent/Bollards
- Indoor lights visible from outdoors
- Roof Floodlights
- Other Lights

Facility lighting plan may be submitted as lighting inventory. Photos may be attached. The suggested light table, and Green Sea Turtle assessment table below may each be modified as needed to provide the necessary information.



Port Allen Solar Farm

Table 1(a): Lighting at Port Allen Solar Farm

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Control building	Fully shielded	Over two	Safety if an emergency	Both lights are fully dark sky compliant
	down pointed	doors on the	occurs at night and	and lights are not illuminated except
	over door LED	exterior of the	service access is	when a night time service call is
	lights.	building.	required.	required.



Port Allen Solar Farm

Table 2(a): Green Sea Turtle Assessment for Port Allen Solar Farm

Sea Turtle, and provide further guidance.		
Are any of the facilities located adjacent to a beach?	Yes	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach This parcel includes about 60 feet of beach frontage. The solar facility itself is at least 300 feet from the beach, and there are no lights on the beach. The only lights at this facility are about 1,000 feet from the beach (and are normally off).
Are any of the Covered Activities (lights) visible from a beach?	A&B's lights are not visible from the beach.	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information

Port Allen Center I and II

Table 1(b): Lighting at Port Allen Center I and II

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Port Allen Center 1: One warehouse split into six bays, fronting Waialo Road, totaling 28,000 sq. ft.	12 flat LED panel lights	Mounted on steel building pointed down and shielded.	Safety and security	A lighting audit was conducted of the property and most of the unshielded lighting was replaced with LED that are dark sky compliant. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.
11	4 fully shielded cylinder lights	Mounted on steel building pointed down and shielded.	Safety and security	A lighting audit was conducted of the property and most of the unshielded lighting was replaced with LED that are dark sky compliant. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.
п	2 large fully shielded lights	On either side of the Brew Pub entrance.	Safety and security	A lighting audit was conducted of the property and most of the unshielded lighting was replaced with LED that are dark sky compliant. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1."

				A&B will complete its lighting and minimization by the end of Year 1.
11	Eight fixtures of various types which have been deactivated	Back side of the building.	Not used anymore.	These fixtures will either be replaced, modified to make them dark sky compliant, or deactivated. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.
Port Allen Center 2: One warehouse split into seven bays, totaling 13,198 sq. ft.	3 flat low wattage LED panels mounted so that they point straight down	On west facing wall overlooking the parking lot.	Safety and security.	A lighting audit was conducted of the property and most of the unshielded lighting was replaced with LED that are dark sky compliant. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.
	1 bare bulb floods with two lights each	On west facing wall overlooking the parking lot.	Safety and security, only used occasionally businesses are not open at night.	These fixtures will either be replaced, modified to make them dark sky compliant, or deactivated. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.

I motion triggered flat LED fixture	On west facing wall overlooking the parking lot.	Safety and security.	A lighting audit was conducted of the property and most of the unshielded lighting was replaced with LEDs that are dark sky compliant. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.
3 bare bulbs	One on the back of the building and two by NAPA.	Safety and security, only used occasionally businesses are not open at night.	These fixtures will be replaced or modified to make them dark sky compliant or will be deactivated. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.

Port Allen Center I and II

Table 2(b): Green Sea Turtle Assessment for Port Allen Center I and II

Sea Turtle, and provide further guidance.		
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information

Port Allen South Parcels

Table 1(c): Lighting at Port Allen South Parcels

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Vacant Shoreline Parcel - none	None	N/A	N/A	N/A
BEI Parcel – two buildings, plus a shipping container converted to a building.	1 flat flood light	Mounted on power pole		Light is no longer functional.
n .	1 unshielded streetlight, deactivated	In yard		Light is no longer functional.

Port Allen South Parcels

Table 2(c): Green Sea Turtle Assessment for Port Allen South Parcels

Sea Turtle, and provide further guidance.		
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach
The vacant lot is adjacent to the shoreline but has no "facilities" other than a fuel pipeline operated by Island Energy Services The BEI lot is not adjacent to the shoreline		The vacant lot fronts the ocean. There are approximately 600 feet of shoreline frontage and no lights adjacent to the shoreline. There is no beach; the shoreline is a rock cliff
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information

Port Allen Parking Lots

Table 1(d): Lighting at Port Allen Parking Lots

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
None – unpaved parking lot located ocean side of the Marina Center.	Three LED fully shielded streetlights	Fronting Aka Ula Road makai of the Marina Center	Safety and security	Selected fully shielded streetlights – there are regular streetlights along Waialo Road which are operated by KIUC.



Port Allen Parking Lots

Table 2(d): Green Sea Turtle Assessment for Port Allen Parking Lots

No (there is	If yes, provide length of beach frontage & brief description of
shoreline	facilities & lights adjacent to the beach
frontage, but	
no beach).	There are approximately 300 feet of shoreline frontage and no
	lights adjacent to the shoreline. There is no beach; the shoreline is
	rocky.
No	If yes, describe the specific lights (type, , height, purpose) &
	specific location; provide map & photos showing distance from
	beach
	A&B lighting is inland of the Navy and HDOT-DOT lighting
No	If yes, provide information about nesting occurrences, if known,
	including location and date and any other information
	, and the second
	shoreline frontage, but no beach).

Port Allen Steel Warehouse

Table 1(e): Lighting at Port Allen Steel Warehouse

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
One Steel warehouse building divided into seven bays totally 22,622 sq. ft.	Seven rectangular wall sconces with foil shield	Attached to the building sides	Safety and security	Most of these fixtures are no longer functional.
п	Six motion sensor activated LED panels	Attached to the building sides	Safety and security	Lights turn on only when someone approaches the building and turn off when they leave.
II	Four double bulb flood lights	Attached to building	Safety and security	These are no longer active.
11	Two downward pointed floods triggered by motion sensors	Attached to building	Safety and security	Lights turn on only when someone approaches the building and turn off when they leave.
11	Five other non- shielded fixtures	Attached to building	No longer in use	These fixtures have been deactivated, and will be removed .

Port Allen Steel Warehouse

Table 2(e): Green Sea Turtle Assessment for Port Allen Steel Warehouse

Sea Turtie, and provide further guidance.		
Are any of the facilities located adjacent to a	No (there is	If yes, provide length of beach frontage & brief description of
beach?	shoreline	facilities & lights adjacent to the beach
	frontage, but	
	no beach)	This property fronts the ocean. There are approximately 400 feet
		of shoreline frontage and no lights on the makai side of the
		building, and all other lights on the building are motion sensor
		triggered. There is no beach; the shoreline is rocky.
Are any of the Covered Activities (lights) visible	No	If yes, describe the specific lights (type, , height, purpose) &
from a beach?		specific location; provide map & photos showing distance from
		beach
Have green sea turtles been known to nest on	No	If yes, provide information about nesting occurrences, if known,
any beaches adjacent to the facilities?		including location and date and any other information

Port Allen Marina Center

Table 1(f): Lighting at Port Allen Marina Center

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Two buildings	56 Low wattage	Attached to	Security and safety	The wattage of the bulbs has been
connected by a	wall sconces	the walls of		lowered as much as they can be and
courtyard.		the buildings		still provide adequate lighting for
		under an		shoppers. During the fledging season
		overhang.		every other light is turned off at 9:00 pm.
п	Ten fully shielded	Located in the	Security and safety	
	down pointing	parking lots		
	streetlights	and along the		
		front of the		
		shopping center.		
11	Eight fluorescent	On the front of	Illuminate shop signs	
	signage	the building		
	illuminators,	lighting	*	
	completely	individual		
	shielded by metal	store signs.		
	shielding			
"	Two CFL floods	Pointed at the	Illuminate bar entrance	
		entrance to		
		the bar. Under		
		the eaves of		
		the building.		

Port Allen Marina Center

Table 2(f): Green Sea Turtle Assessment for Port Allen Marina Center

Sea Turtle, and provide further guidance.		
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information

Pump 3 Hanapepe Valley

Table 1(g): Lighting at Pump 3 Hanapepe Valley

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Control building	One deactivated light	Over door into the control building	Nighttime emergency service calls	These lights are no longer functional.
Pump shed	Two unshielded flood lights	Lighting the pumps	Nighttime emergency service calls	These lights are not turned on unless there is an emergency repair needed at night. Also, they are located under an open-sided roofed structure.
Switching yard	None			



Pump 3 Hanapepe Valley

Table 2(g): Green Sea Turtle Assessment for Pump 3 Hanapepe Valley

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance. Are any of the facilities located adjacent to a If yes, provide length of beach frontage & brief description of No beach? facilities & lights adjacent to the beach Are any of the Covered Activities (lights) visible If yes, describe the specific lights (type, , height, purpose) & No from a beach? specific location; provide map & photos showing distance from beach Have green sea turtles been known to nest on If yes, provide information about nesting occurrences, if known, any beaches adjacent to the facilities? including location and date and any other information

Kalaheo Powerhouse

Table 1(h): Lighting at Kalaheo Powerhouse

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Powerhouse	One three bulb fixture completely shielded	On powerhouse walls	Repairs at night	These lights are not usually turned on
11	One downward pointed circular low wattage LED fixture	This fixture is under the eaves and is not visible from the sky	Repairs at night	
II	Two small wall sconces – no longer active			

Kalaheo Powerhouse

Table 2(h): Green Sea Turtle Assessment for Kalaheo Powerhouse

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance.

Are any of the facilities located adjacent to a No If yes, provide length of beach frontage & brief description of

Sea Turtie, and provide further guidance.			
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach	
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach	
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information	

Wainiha Powerhouse

Table 1(i): Lighting at Wainiha Powerhouse

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Powerhouse	Three small full cutoff fixtures	Attached to the powerhouse walls.	Emergency nighttime repairs.	These lights are not turned on except in the case of nighttime emergencies.
Substation	None			



Wainiha Powerhouse

Table 2(i): Green Sea Turtle Assessment for Wainiha Powerhouse

Sea Turtle, and provide further guidance.			
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach	
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach	
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information	

Hokulei Shopping Village

Table 1(j): Lighting at Hokulei Shopping Village

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
The shopping center contains 10 buildings (please see site plan in Appendix A).	101 full cutoff low wattage streetlights, three configurations	Within the parking lot	Security and customer safety	All lights are dark sky compliant and use low wattage LED luminaires.
	111 bucket wall lights, low wattage LEDs	Mounted on the store walls	Security and customer safety	All lights are dark sky compliant and use low wattage LED bulbs.
	94 cylindrical tube lights – low wattage LEDs	Mounted on the store walls	Security and customer safety	All lights are dark sky compliant, use low wattage LED bulbs, and can't be seen from the sky.
	30 recessed can lights, low wattage LEDs	Mounted in the ceilings along the covered walkways	Security and customer safety	All lights are dark sky compliant, use low wattage LED bulbs, and can't be seen from the sky.
	26 tube lights, two configurations	Mounted under awnings around the shopping center	Security and customer safety	All lights are dark sky compliant, use low wattage LED bulbs, and can't be seen from the sky.
	1 large ceiling mounted flat panel LED	Mounted in the ceiling above a covered walkway	Security and customer safety	All lights are dark sky compliant, use low wattage LED bulbs, and can't be seen from the sky.

2 cylindrical	UFO Mounted on	Security and customer	All lights are dark sky compliant, use
LED lights	the exterior	safety	low wattage LED bulbs, and can't be
LLD lights	walls of the	Salety	seen from the sky.
	Jack in the Box		seen from the sky.
2 (1)		Con di contra di	All Palate and all and a same Paul
2 can flood	•	Security and customer	All lights are dark sky compliant, use
	the exterior	safety	low wattage LED bulbs, and can't be
	walls of the		seen from the sky.
	Wendy's		·
4 emergenc	y exit Mounted	Emergency exit	These lights only turn on when the
box lights, C	FL above the	illumination	power is interrupted and the stores are
bulbs	emergency		open.
	exit doors on		
	the Petco		
	Store		
10 in ceiling	CFL Mounted in	Security and customer	
panels	the ceiling	safety	
	above the gas		
	pumps in the		
	Chevron		
	Station		
7 wall mour		Security and customer	All lights are dark sky compliant and use
shielded car		safety	low wattage LED bulbs.
lights	walls of	,	
	American		
	Savings		
9 wall mour		Security and customer	All lights are dark sky compliant and use
tulip LED ca	the exterior	safety	low wattage LED bulbs.
lights	walls of	,	
	American		
	Savings		
	Javings		

16 LED wall	Mounted on	Security and customer	All lights are dark sky compliant and use
mounted shiel	ded the exterior	safety	low wattage LED bulbs.
LED box lights	walls of		_
	American		
	Savings		
1 LED fully	Mounted	Security and customer	All lights are dark sky compliant and use
shielded box li	ght beneath an	safety	low wattage LED bulbs.
	awning at the		
	drive through		
	of American		
	Savings		
5 fully shielded	d Installed along	Security and customer	All lights are dark sky compliant and use
LED Bollard lig	hts the eastern	safety	low wattage LED bulbs.
	entrance road		
	to the		
	shopping		
	Center		
23 flat fully	Mounted on	Security and customer	All lights are dark sky compliant, use
shielded LED	the exterior	safety	low wattage LED bulbs, and can't be
panel lights	walls of the	,	seen from the sky.
	Safeway Store		
4 ceiling moun	ited Mounted on	Security and customer	All lights are dark sky compliant, use
can lights	the ceiling of	safety	low wattage LED bulbs, and can't be
	the entrance		seen from the sky.
	to the Safeway		
	Store		
5 in wall LED	Mounted in	Security and employee	
safety lights	the walls of	safety	
	the Safeway		
	loading dock		

Hokulei Shopping Village

Table 2(j): Green Sea Turtle Assessment for Hokulei Shopping Village

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance.

Are any of the facilities located adjacent to a No If yes, provide length of beach frontage & brief description of

Sea rurtie, and provide further guidance.		
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information

The Shops at Kukui'ula

Table 1(k): Lighting at The Shops at Kukui'ula

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Shopping Center	67 LED streetlights full cutoff, pointed parallel to the ground	Parking lot	Safety and security	
п	6 flat panel LED parking lot lights	Employee Parking Lot	Safety and security	
11	Numerous lights with wide range of designs and wattages illuminating the shops	On and around the shops	Safety and security	The shopping center is in the process of developing a lighting plan for this facility that will reduce light emissions, and replace lights with dark sky compliant fixtures and/ or lamps. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.

The Shops at Kukui'ula

Table 2(k): Green Sea Turtle Assessment for The Shops at Kukui'ula

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance.

Sea Turtle, and provide further guidance.					
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach			
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach			
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information			

Waipouli Town Center

Table 1(I): Lighting at Waipouli Town Center

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Shopping Center and a	Twenty-five full	In the parking	Safety and security	Full cutoff fixtures
separate McDonalds	cutoff shielded	lot		
building	parking lot			
	streetlights in various			
	configurations			
	Thirteen wall pack	Attached to	Safety and security	Full cutoff fixtures
	LED fixtures	the outside		
		walls of the		
		shopping		
		center		
	Two flat panel full	Attached to	Safety and security	Full cutoff fixtures
	cutoff LED wall	the outside		
	packs	walls of the		
		shopping		
		center in the		
		loading dock		
	Two, two light	area Back wall of	Safety and security	Motion triggered, not usually on
	bulb flood light	the shopping	Jaicty and security	inotion triggered, not usually off
	fixtures, motion	center		
	sensor triggered	Conte		

Thirty-one fully	Mounted to	Safety and security	Full cutoff fixtures, not visible from the
shielded low	the ceilings		sky
wattage LED	above the		
ceiling fixtures	covered		•
	walkways –		
	not visible		
	from the sky		
One floodlight	Flood light	Safety and security	Masked by roof overhang
under roof	under roof		
	pointed at the		
	cashier station		
	of the		
	McDonalds		
	restaurant		

Waipouli Town Center

Table 2(I): Green Sea Turtle Assessment for Waipouli Town Center

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance.

Sea Turtle, and provide further guidance.					
Are any of the facilities located adjacent to a beach?	No	If yes, provide length of beach frontage & brief description of facilities & lights adjacent to the beach			
Are any of the Covered Activities (lights) visible from a beach?	No	If yes, describe the specific lights (type, , height, purpose) & specific location; provide map & photos showing distance from beach			
Have green sea turtles been known to nest on any beaches adjacent to the facilities?	No	If yes, provide information about nesting occurrences, if known, including location and date and any other information			

Kukui'ula Development (Plantation Core/The Club)

Table 1(m): Lighting at Kukui'ula Development (Plantation Core/The Club)

List of Buildings	Type/Description of Lights Present	Location	Purpose of the Lights	Describe any measures implemented to avoid or minimize take impacts to Covered Species
Parking Lots	3 walkway "mushroom" lights which are completely shielded and have low wattage LEDs	Along walkways	Path lighting and safety and security	Completely shielded low wattage dark sky LED fixtures.
11	79 tree-mounted fully shielded pencil can lights	In trees (lights are downward pointed in parking lot)	Parking lot safety and security	Completely shielded low wattage dark sky LED fixtures.
Cart Barn and Mechanicals Building	15 low wattage CFL bulb lights in glass fixtures	Mounted on the walls	Safety and security	Low wattage CFLs.
п	2 flood lights with CFL bulbs	Mounted at the loading dock bay	Deliveries and service at night	Under eves, downward pointed and only turned on when needed.
Porte Cochere	2 walkway "mushroom" lights which are completely shielded, low wattage LEDs	Along walkways	Path lighting and safety and security	Completely shielded low wattage dark sky LED fixtures.
II .	8 gas candle lanterns	Along driveway and framing the entrance	Accent and mood	Very dim gas lanterns.

11	8 tree mounted	In trees	Accent and mood	Completely shielded low wattage dark
	fully shielded pencil can lights	downward pointed in trees	lighting	sky LED fixtures.
Kukui`ula Realty	4 wall-mounted lantern lights with milk glass domes, shielded from above	Mounted on entrance wall	Safety and security	Low wattage, shielded from above and under eves of the building.
The Lodge	4 panel LED lights	West side exterior wall	Safety and security	Low wattage LEDs, all other lights are interior lights or completely shielded by the building.
The Club	17 oil lamp style low wattage lamps in brass fixture	Exterior walls	Safety and security	Low wattage, shielded from above, under eves, most under eves.
П	4 wall-mounted lantern lights in milk glass domes, shielded from above	Mounted on entrance wall	Safety and security	Low wattage, shielded from above and under eves of the building.
II	9 gas candle lanterns	Exterior	Accent and mood	Very dim gas lanterns.
11	10 wall-mounted lantern lights in milk glass domes, shielded from above	Mounted on buildings	Safety and security	Low wattage, shielded from above and most under eves of the buildings.

11	16 square "ship" lantern fixtures, LED frosted glass	Mounted on buildings	Safety and security	Low wattage, shielded from above and under eves of the buildings.
Pool area structures	8 wall-mounted lantern lights in milk glass domes, shielded from above	Mounted on buildings	Safety and security	Low wattage, shielded from above and most under eves of the buildings.
II	2 white glass lanterns, shielded from above	Mounted on buildings	Safety and security	Low wattage, shielded from above and under eves of the buildings.
п	51 white pencil cylinder can lights, LED	Mounted inside the cabanas on the underside of the roof pointed at the ground	Safety and security and mood lighting	Low wattage, dark sky compliant, shielded completely under roof in the cabanas, not visible from above.
п	The pool is lit with low wattage 38 watt LED fixtures	Mounted on the pool floor and walls	Safety and security	
Landscaping	61 walkway "mushroom" lights which are completely shielded and have low wattage LEDs	Along walkways	Path lighting and safety and security	Completely shielded low wattage dark sky LED fixtures.
11	36 tree-mounted fully shielded pencil can lights	In trees, downward pointed in the ground	Safety and security and mood lighting	Completely shielded low wattage dark sky LED fixtures.

"	20 in-wall, fully shielded, 20 watt step lights,	Mounted in the rock sides of the exterior	Safety and security and mood lighting	Completely shielded low wattage dark sky LED fixtures.
	shielded, low	stairs		
	wattage			



Kukui'ula Development (Plantation Core/The Club)

Table 2(m): Green Sea Turtle Assessment for Kukui'ula Development (Plantation Core/The Club)

Please provide the information requested below to help determine if measures to avoid impacts to the Green Sea Turtle(s) from the effects of light attraction are required to be implemented at any of the facility(s), parcel(s), or site(s) included in this PIP. Please consult with staff from the DLNR and the USFWS to arrange a site visit, if needed, discuss measures to avoid impacts to the Green Sea Turtle, and provide further guidance. Are any of the facilities located adjacent to a If yes, provide length of beach frontage & brief description of No beach? facilities & lights adjacent to the beach Are any of the Covered Activities (lights) visible If yes, describe the specific lights (type, , height, purpose) & No from a beach? specific location; provide map & photos showing distance from beach Have green sea turtles been known to nest on If yes, provide information about nesting occurrences, if known, any beaches adjacent to the facilities? including location and date and any other information

Item 4. If applicable, describe any lighting standards (e.g., foot candles/area) required for facility operations or other requirements that necessitate the use of lighting (e.g., required for security, safety, operations). Describe the relevant standard, or regulation, and the areas and Covered Activities at the site (e.g., type of lighting) to which it applies.

There are no specific lighting standards, rules, restrictions or requirements that the properties in this Participant Inclusion Plan must comply with, beyond assuring that lighting is adequate to ensure safety and security for employees and, if applicable, guests. Pre-seabird season lighting audits are conducted by a seabird biologist and necessary adjustments to the lighting are completed prior to the start of the seabird season each year.

Item 5. Describe any plans/proposals for future facilities or expansion of existing facilities. Include any proposed structures and lighting by type, purpose, and location. Plans (architecture and site plans), photos, and drawings can be attached.

Port Allen Solar Farm

At the present time, McBryde has no future plans for the Port Allen Solar Farm that would require the installation of additional exterior lights.

Port Allen Center I and II

At the present time, A&B has no future plans for Port Allen Center I and II that would require the installation of additional exterior lights.

Port Allen South Parcels

At the present time, A&B has no future plans for the Port Allen south parcels that would require the installation of additional exterior lights.

Port Allen Parking Lots

At the present time, A&B has no future plans for the Port Allen Parking Lots that would require the installation of additional exterior lights.

Port Allen Steel Warehouse

At the present time, A&B has no future plans for the Port Allen Steel Warehouse that would require the installation of additional exterior lights.

Port Allen Marina Center

At the present time, A&B has no future plans for the Port Allen Marina Center that would require the installation of additional exterior lights.

Pump 3 Hanapepe Valley

At the present time, A&B has no future plans for Pump 3 in Hanapepe Valley that would require the installation of additional exterior lights.

Kalaheo Powerhouse

At the present time, McBryde has no future plans for the Kalaheo Powerhouse that would require the installation of additional exterior lights.

Wainiha Powerhouse

At the present time, McBryde has no future plans for the Kalaheo Powerhouse that would require the installation of additional exterior lights.

Hokulei Shopping Village

Currently there is a plan to construct a free standing Walgreen's store on this property. All lights that will be installed will be dark sky compliant, full cut off lights, most likely low wattage LEDs.

The Shops at Kukui'ula

A&B is currently working on developing a new lighting plan for this shopping center. Significant changes will be made to the exterior lighting, with the goal of reducing light emissions. KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.

Waipouli Town Center

At the present time, A&B has no future plans for the Waipouli Town Center that would require the installation of additional exterior lights.

Kukui'ula Development (Plantation Core/The Club)

At the present time, Kukui'ula Development Company has no future plans for the Plantation Core/The Club that would require the installation of additional exterior lights.

Item 6. Pursuant to the Endangered Species Act (ESA), Section 10 (a)(2)(A)(iii), describe alternatives to <u>avoid</u> the taking considered and evaluated. Provide reasons why those alternatives are not being utilized. Alternatives can include operational or facility design changes (attach pages as needed). The tables below may be altered as needed.



Port Allen Solar Farm

Table 3(a): Light Attraction Alternatives to the Taking at Port Allen Solar Farm

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Lights are not turned on except when a nighttime emergency requires maintenance.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Port Allen Center I and II

Table 3(b): Light Attraction Alternatives to the Taking at Port Allen Center I and II

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Lighting at both of these facilities is minimal. Safety and security preclude completely turning off all lights at night.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Not practicable
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	

Port Allen South Parcels

Table 3(c): Light Attraction Alternatives to the Taking at Port Allen South Parcels

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Completed
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	All streetlights are full cutoff dark sky compliant fixtures.
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Port Allen Parking Lots

Table 3(d): Light Attraction Alternatives to the Taking at Port Allen Parking Lots

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all streetlights at night.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	The parking lot lights are shielded.
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	

Port Allen Steel Warehouse

Table 3(e): Light Attraction Alternatives to the Taking at Port Allen Steel Warehouse

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Has been completed.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	See above.
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Port Allen Marina Center

Table 3(f): Light Attraction Alternatives to the Taking at Port Allen Marina Center

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all lights at night. Half of the wall sconces are turned off at 8:00 pm during the seabird fledging season. A&B has also lowered the wattage of the bulbs in the wall sconces.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Not practicable. Safety and security preclude completely turning off all lights at night.
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	Modification and/or replacement of wall sconce lighting is being evaluated.

Pump 3 Hanapepe Valley

Table 3(g): Light Attraction Alternatives to the Taking at Pump 3 Hanapepe Valley

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Completed
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Kalaheo Powerhouse

Table 3(h): Light Attraction Alternatives to the Taking at Kalaheo Powerhouse

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Completed
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Wainiha Powerhouse

Table 3(i): Light Attraction Alternatives to the Taking at Wainiha Powerhouse

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Completed
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	N/A
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Hokulei Shopping Village

Table 3(j): Light Attraction Alternatives to the Taking at Hokulei Shopping Village

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all lights at night.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Safety and security preclude completely turning off all lights at night.
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

The Shops at Kukui'ula

Table 3(k): Light Attraction Alternatives to the Taking at The Shops at Kukui'ula

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all lights at night.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Safety and security preclude completely turning off all lights at night.
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	A&B is currently working on re-designing the lighting at the shopping Center to reduce light attraction.

Waipouli Town Center

Table 3(I): Light Attraction Alternatives to the Taking at Waipouli Town Center

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all lights at night.
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Safety and security preclude completely turning off all lights at night.
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Kukui'ula Development - Plantation Core/The Club

Table 3(m): Light Attraction Alternatives to the Taking at Kukui'ula Development - Plantation Core/The Club

Artificial Light Attraction Alternatives to the Taking Considered	Reasons Alternatives are not Being Utilized (provide justification)
 Deactivate <u>all</u> outdoor artificial lights from dusk to dawn during the fledgling fall-out season September 15 to December 15 	Safety and security preclude completely turning off all lights at night
 Change operations to eliminate the need for outdoor artificial lighting (e.g., from nighttime to daylight hours) 	Safety and security preclude completely turning off all lights at night
 Shield all lights from visibility from the beach, or screen all Green Sea Turtle nests, from May 15 to December 15 to avoid impacting the green sea turtle (Green Sea Turtle) 	N/A
 Other alternatives to the taking considered, if any. If facility is proposed, include alternative designs considered 	N/A

Item 7. Describe all site-specific seabird minimization measures considered for the Covered Activities. This item should follow KSHCP minimization objectives and measures as specified in Appendix E (Guidelines for Adjusting Lighting at Facilities) of the KSHCP document. Please consult with staff from the DOFAW and the USFWS as needed. The suggested tables below can be altered as needed.

Minimization measures modify the Covered Activities to reduce the effects of the activity on the Covered Species. KSHCP Participants will be required to implement minimization measures that apply to the facility to the "maximum extent practicable" per applicable state and federal laws which regulate incidental take license/permit issuance by the DLNR and the USFWS.

Minimization also entails searching and recovering grounded seabirds to minimize the chance of mortality. In addition, the presence of on-site predators (i.e. feral cats, dogs) should be controlled and removed because these animals can prey on grounded seabirds.

Provide justification, such as policies, regulations, or other rationale for measures that will not be implemented.



Port Allen Solar Farm Table 4(a): Seabird Light Attraction Minimization Measures Considered at Port Allen Solar Farm

Minimization Measures	Feasible?	If not Feasible to Implement Measures,
Considered		Provide Reason
	(Y / N)	
• Change time of light use	Van / Na	Currently the two over door lights are not
(lights off earlier)	<u>Yes</u> / No	turned on unless there is an emergency.
- Desetivate vanagemen		This is a valetively pay fosility and they
■ Deactivate unnecessary	Voc / No	This is a relatively new facility and there
lights	Yes / <u>No</u>	are no extraneous lighting fixtures.
■ Replace all outdoor		
lights with full cut-off	Yes / No	
fixtures	<u>res</u> / NO	
Shield all outdoor lights		
with full cut-off shields	<u>Yes</u> / No	
 Angle all lights 	Yes / No	
downward	<u></u> ,	
Lower intensity (lumens)	West Alle	
of outdoor lights	Yes / No	
■ Change bulb color to		
non-white spectrum	<u>Yes</u> / No	*
■ Prohibit/control		
unleashed predatory		
animals; prohibit	Yes / No	
outdoor feeding of		
animals; require sealed rubbish containers		
Provide Worker Seabird		
	<u>Yes</u> / No	
Awareness Training to staff	res / NO	
Provide outreach		Not applicable – this is a power generation
materials to staff &	Yes / <u>No</u>	facility and there are no guests.
guests	163 / <u>140</u>	radinty and there are no guests.
■ Host Save Our		There is an SOS Aid Station close by next
Shearwaters (SOS) Aid	Yes / No	to the Island Energy Services Fuel Tank
Station Station	165/ 110	Farm.
Station		I WITTI

Port Allen Center I and II Table 4(b): Seabird Light Attraction Minimization Measures Considered at Port Allen Center I and II

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	Yes / No	
Deactivate unnecessary lights	Yes / No	Numerous older light fixtures have been deactivated or replaced with new fixtures in the past five years.
Replace all outdoor lights with full cut-off fixtures	<u>Yes</u> / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	All new lighting fixtures are low wattage LEDs.
Change bulb color to non-white spectrum	Yes / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	
 Provide Worker Seabird Awareness Training to staff 	Yes / No	
Provide outreach materials to staff & guests	<u>Yes</u> / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station close by next to the Island Energy Services Fuel Tank Farm.

Port Allen South Parcels Table 4(c): Seabird Light Attraction Minimization Measures Considered at Port Allen South Parcels

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
 Change time of light use (lights off earlier) 	Yes / <u>No</u>	There are no lights on either of these parcels.
Deactivate unnecessary lights	Yes / No	Complete
Replace all outdoor lights with full cut-off fixtures	Yes / <u>No</u>	There are no lights on either of these parcels.
 Shield all outdoor lights with full cut-off shields 	Yes / <u>No</u>	There are no lights on either of these parcels.
Angle all lights downward	Yes / <u>No</u>	There are no lights on either of these parcels.
Lower intensity (lumens) of outdoor lights	Yes / <u>No</u>	There are no lights on either of these parcels.
 Change bulb color to non-white spectrum 	Yes / <u>No</u>	There are no lights on either of these parcels.
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	<u>Yes</u> / No	
Provide Worker Seabird Awareness Training to staff	Yes / No	A&B has no workers on the vacant lot or the BEI parcel, but A&B will provide seabird awareness training to its property management staff.
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station close by next to the Island Energy Services Fuel Tank Farm.

Port Allen Parking Lots

Table 4(d): Seabird Light Attraction Minimization Measures Considered at Port Allen Parking Lots

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	Yes / <u>No</u>	For safety and security reasons, lighting is needed in the parking lot.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	Yes / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
Change bulb color to non-white spectrum	<u>Yes</u> / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	These restrictions are in place for the Marina Center served by the parking lot. However, this parking lot is not fenced and is between two harbor/launch facilities. It is impossible to effectively control all predators in the greater harbor area.
Provide Worker Seabird Awareness Training to staff	Yes / No	
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station close by next to the Island Energy Services Fuel Tank Farm

Port Allen Steel Warehouse Table 4(e): Seabird Light Attraction Minimization Measures Considered at Port Allen Steel Warehouse

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	<u>Yes</u> / No	Exterior lighting is motion activated so it is usually dark at night.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	<u>Yes</u> / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
Change bulb color to non-white spectrum	<u>Yes</u> / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	Due to high crime, one tenant maintains watchdogs within his fenced yard.
 Provide Worker Seabird Awareness Training to staff 	Yes / No	
Provide outreach materials to staff & guests	<u>Yes</u> / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station close by next to the Island Energy Services Fuel Tank Farm.

Port Allen Marina Center Table 4(f): Seabird Light Attraction Minimization Measures Considered at Port Allen Marina Center

Minimization Measures	Feasible?	If not Feasible to Implement Measures,
Considered	(Y / N)	Provide Reason
 Change time of light use (lights off earlier) 	<u>Yes</u> / No	Most of the stores in the center are closed after dark, and their interior lights turned off. The Marina Center turns off every other wall sconce light at 9:00 pm during the seabird fallout season.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	Yes / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	Yes / No	
Lower intensity (lumens) of outdoor lights	<u>Yes</u> / No	
Change bulb color to non-white spectrum	Yes / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	<u>Yes</u> / No	
Provide Worker Seabird Awareness Training to staff	<u>Yes</u> / No	
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station close by next to the Island Energy Services Fuel Tank Farm.

Pump 3 Hanapepe Valley

Table 4(g): Seabird Light Attraction Minimization Measures Considered

at Pump 3 Hanapepe Valley

Minimization Measures	Feasible?	If not Feasible to Implement Measures,
Considered	(Y / N)	Provide Reason
Change time of light use (lights off earlier)	Yes / No	Lights are not turned on unless emergency nighttime repairs are required.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	Yes / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	Yes / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
Change bulb color to non-white spectrum	Yes / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	Predatory animal control is not feasible outside of the fenced portion of the facility as this is a rural area.
Provide Worker Seabird Awareness Training to staff	Yes / No	
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	This area is too isolated to warrant an aid station, and no downed seabirds have ever been recovered from this site.

Kalaheo Powerhouse

Table 4(h): Seabird Light Attraction Minimization Measures Considered at Kalaheo Powerhouse

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	<u>Yes</u> / No	Lights are not turned on unless emergency nighttime repairs are required.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	Yes / No	
 Shield all outdoor lights with full cut-off shields 	<u>Yes</u> / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
Change bulb color to non-white spectrum	<u>Yes</u> / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	Predator control is not feasible outside the fenced portion of the facility due to the rural area.
 Provide Worker Seabird Awareness Training to staff 	Yes / No	
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	This area is too isolated to warrant an aid station, and no downed seabirds have ever been recovered from this site.

Wainiha Powerhouse

Table 4(i): Seabird Light Attraction Minimization Measures Considered at Wainiha Powerhouse

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	<u>Yes</u> / No	Lights are not turned on unless emergency nighttime repairs are required.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	Yes / No	
Shield all outdoor lights with full cut-off shields	Yes / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
Change bulb color to non-white spectrum	<u>Yes</u> / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	Predator control is not feasible outside the fenced portion of the facility as this is a wildland area.
 Provide Worker Seabird Awareness Training to staff 	Yes / No	
Provide outreach materials to staff & guests	Yes / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	This area is too remote to warrant an aid station.

Hokulei Shopping Village

Table 4(j): Seabird Light Attraction Minimization Measures Considered at Hokulei Shopping Village

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason		
Change time of light use (lights off earlier)	Yes / <u>No</u>	Security and safety of employees and guests preclude this option.		
Deactivate unnecessary lights	<u>Yes</u> / No	This is a new shopping center where lighting was designed to be dark sky compliant.		
Replace all outdoor lights with full cut-off fixtures	Yes / No			
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No			
Angle all lights downward	Yes / No			
Lower intensity (lumens) of outdoor lights	Yes / No			
Change bulb color to non-white spectrum	Yes / No			
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No			
Provide Worker Seabird Awareness Training to staff	<u>Yes</u> / No			
Provide outreach materials to staff & guests	Yes / No			
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	The Līhu'e Fire Station Aid Station is located less than two miles away.		

The Shops at Kukui'ula

Table 4(k): Seabird Light Attraction Minimization Measures Considered

at The Shops at Kukui'ula

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason
Change time of light use (lights off earlier)	Yes / <u>No</u>	Security and safety of employees and guests preclude this option.
Deactivate unnecessary lights	<u>Yes</u> / No	
Replace all outdoor lights with full cut-off fixtures	<u>Yes</u> / No	
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No	
Angle all lights downward	<u>Yes</u> / No	
Lower intensity (lumens) of outdoor lights	Yes / No	
 Change bulb color to non-white spectrum 	Yes / No	
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	
 Provide Worker Seabird Awareness Training to staff 	Yes / No	
Provide outreach materials to staff & guests	<u>Yes</u> / No	
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	The Koloa Fire Station Aid Station is located about one quarter mile away.

Waipouli Town Center

Table 4(I): Seabird Light Attraction Minimization Measures Considered at Waipouli Town Center

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures, Provide Reason	
 Change time of light use (lights off earlier) 	Yes / <u>No</u>	Security and safety of employees and guests preclude this option.	
Deactivate unnecessary lights	Yes / No		
Replace all outdoor lights with full cut-off fixtures	Yes / No		
Shield all outdoor lights with full cut-off shields	<u>Yes</u> / No		
Angle all lights downward	<u>Yes</u> / No		
Lower intensity (lumens) of outdoor lights	Yes / No		
Change bulb color to non-white spectrum	<u>Yes</u> / No		
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No	Effective predator control may not be feasible due to a feral cat colony that is being maintained in close proximity to this facility. Outside agencies need to play a role in controlling the feral cats which are known to decimate seabird populations.	
Provide Worker Seabird Awareness Training to staff	<u>Yes</u> / No		
Provide outreach materials to staff & guests	Yes / No		
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station at the Kapa'a Fire Station, immediately adjacent to this property.	

Kukui'ula Development - Plantation Core/The Club Table 4(m): Seabird Light Attraction Minimization Measures Considered at Kukui'ula Development - Plantation Core/The Club

Minimization Measures Considered	Feasible? (Y / N)	If not Feasible to Implement Measures Provide Reason		
Change time of light use (lights off earlier)	Yes / <u>No</u>	Security and safety of employees and guests preclude this option.		
Deactivate unnecessary lights	<u>Yes</u> / No	This is a relatively new facility designed to be seabird friendly. There are no unnecessary lights to deactivate.		
 Replace all outdoor lights with full cut-off fixtures 	Yes / No			
Shield all outdoor lights with full cut-off shields	Yes / No			
Angle all lights downward	<u>Yes</u> / No			
Lower intensity (lumens) of outdoor lights	Yes / No			
Change bulb color to non-white spectrum	<u>Yes</u> / No			
 Prohibit/control unleashed predatory animals; prohibit outdoor feeding of animals; require sealed rubbish containers 	Yes / No			
Provide Worker Seabird Awareness Training to staff	<u>Yes</u> / No			
Provide outreach materials to staff & guests	Yes / No			
Host Save Our Shearwaters (SOS) Aid Station	Yes / <u>No</u>	There is an SOS Aid Station at the Poʻipū Fire Station, located close to this facility.		

Item 8. <u>Minimization Plans</u>. Provide a plan to minimize the effects to the Covered Seabirds due to the Covered Activities. KSHCP Participants will be required to minimize the effects of the Covered Activities to the "maximum extent practicable" per applicable state and federal laws which regulate take license/permit issuance. The KSHCP document provides minimization objectives and measures to follow.

The Minimization Plans should include the proposed minimization measures, timeline, and estimated cost for each facility. In this item, the Participant can include measures already completed or in place (new lights, shields, operational changes). Timeline should include estimated completion schedule, and annual schedule for minimization that will occur only during fledging season.

Minimization measures not yet determined but anticipated to occur at the facility; this section should include an estimated cost that will be earmarked for future minimization measures.

If applicable, the participant must provide the reasoning why certain measures will not be implemented. The suggested table below may each be altered to best describe the Minimization Plan. Attach additional pages, photos, and drawings as needed.



Port Allen Solar Farm

Table 5(a): Lighting Minimization Measures at Port Allen Solar Farm

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Control building	There are two completely shielded LED dark sky compliant lights over the building doors. They are only turned on in the event repairs need to be made at night.	N/A	McBryde Resources, Inc.	Completed



Port Allen Solar Farm

Table 6(a): Seabird Mortality Minimization Plan at Port Allen Solar Farm

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of free-roaming seabird predators."	N/A	Operations
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	The facility implements this measure. This is a secure site with no public access.	N/A	Operations
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Properties with lights which are normally turned off and rarely or never used, will not be searched.	N/A	
Train staff to follow minimization measures.	Training will be provided to staff to ensure their understanding and compliance with minimization measures	N/A	Operations

Port Allen Center I and II

Table 5(b): Lighting Minimization Measures at Port Allen Center I and II

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Two steel	A lighting audit was conducted in 2012. Following that	N/A	Property	Complete
commercial	audit the exterior lights were replaced with dark sky		Manager	
buildings	compliant fixtures.			



Port Allen Center I and II

Table 6(b): Seabird Mortality Minimization Plan at Port Allen Center I and II

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of freeroaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy enacted	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

Port Allen South Parcels

Table 5(c): Lighting Minimization Measures at Port Allen South Parcels

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Shoreline Parcel – no buildings	N/A	N/A	Property Manager	Complete
BEI Property (three small industrial buildings)	Lighting has been deactivated	N/A	BEI (tenant)	Complete



Port Allen South Parcels

Table 6(c): Seabird Mortality Minimization Plan at Port Allen South Parcels

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	Shoreline parcel: Vacant land, no predator control is conducted. BEI parcel: In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of free-roaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy enacted	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Shoreline parcel: this is an empty lot where no searches are conducted. BEI Parcel: searches will be conducted.	N/A	Property Manager

Train staff to follow minimization measures.	Empty Lot – no employees to train	N/A	Property Manager



Port Allen Parking Lots

Table 5(d): Lighting Minimization Measures at Port Allen Parking Lots

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
None	Streetlights are dark sky compliant	N/A	Property Manager	Complete



Port Allen Parking Lots

Table 6(d): Seabird Mortality Minimization Plan at Port Allen Parking Lots

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of freeroaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually	N/A	Property Manager

Port Allen Steel Warehouse

Table 5(e): Lighting Minimization Measures at Port Allen Steel Warehouse

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Steel Warehouse	A lighting audit was conducted in 2012, following that	N/A	Property	Complete
	audit the exterior lights were replaced with motion		Manager	
	activated LED lighting fixtures.			



Port Allen Steel Warehouse

Table 6(e): Seabird Mortality Minimization Plan at Port Allen Steel Warehouse

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of freeroaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

Port Allen Marina Center

Table 5(f): Lighting Minimization Measures at Port Allen Marina Center

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
56 low wattage	During the seabird fallout season every other light is	Cost for	Property	Timeline for
wall sconces	turned off at 8:00 pm. Bulbs in the fixtures have been	new bulbs	Manger	fixture
mounted on	changed out to lower wattage bulbs.	is		replacement will
building walls		negligible.		be determined by
		Cost for		future lighting
		new		plan. ¹
		fixtures will		
		be		
		determined		
		by future		
		lighting		
		plan. ¹		

Port Allen Marina Center

Table 6(f): Seabird Mortality Minimization Plan at Port Allen Marina Center

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of freeroaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented.	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

Pump 3 Hanapepe Valley

Table 5(g): Lighting Minimization Measures at Pump 3 Hanapepe Valley

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Control Building	One light has been deactivated	N/A	McBryde Resources operator	Complete
Pump Facility	2 flood lights – not turned on except in emergencies	N/A	McBryde Resources operator	Complete



Pump 3 Hanapepe Valley

Table 6(g): Seabird Mortality Minimization Plan at Pump 3 Hanapepe Valley

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at	In the event that cats or dogs are	N/A	McBryde Resources
the facility. (Loose animals can kill grounded	reported within the fenced facility,		operator
seabirds and this measure aims to prevent	county animal control is notified or a		
seabird mortality by animals.)	pest control company is hired to remove the predators. A&B will		
	meet the goal stated in KSHCP Table		
	5-1 (Biological Goals),		
	"implent[ation] of actions to reduce		
	presence of free-roaming seabird		
	predators."		
Prohibit outdoor feeding of predatory	Policy implemented.	N/A	McBryde Resources
animals. (Feeding animals attracts them to			operator
the site and this measure aims to reduce the			
presence of animals that can cause seabird	Y		
mortality.)			
Conduct nightly/morning searches to recover	Properties with lights which are	N/A	McBryde Resources
downed birds at the property & turn them	normally turned off and rarely or		operator
into SOS following protocols (see monitoring	never used, will not be searched.		
plan below).	7		
Train staff to follow minimization measures.	Training will be conducted annually	N/A	McBryde Sugar
			operator

Kalaheo Powerhouse

Table 5(h): Lighting Minimization Measures at Kalaheo Powerhouse

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
4 lights	All lights are dark sky complaint or not visible from the sky. They are only turned on in the case of nighttime emergencies.	N/A	McBryde Resource operator	Complete
2 small wall sconces	These have been deactivated.	N/A	McBryde Resources operator	Complete



Kalaheo Powerhouse

Table 6(h): Seabird Mortality Minimization Plan at Kalaheo Powerhouse

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, a pest control company will be hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of free-roaming seabird predators."	N/A	McBryde Resources operator
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented.	N/A	McBryde Resources operator
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Properties with lights which are normally turned off and rarely or never used, will not be searched.	N/A	McBryde Resources operator
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	McBryde Resources operator

Wainiha Powerhouse

Table 5(i): Lighting Minimization Measures at Wainiha Powerhouse

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Powerhouse wall	All lights are full-cutoff, dark sky compliant fixtures that	N/A	McBryde	Complete
lights (3)	were recently replaced. They are not turned on except in		Resources	
	the event of a nighttime emergency.		operator	



Wainiha Powerhouse

Table 6(i): Seabird Mortality Minimization Plan at Wainiha Powerhouse

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at	In the event that cats or dogs are	N/A	McBryde Resources
the facility. (Loose animals can kill grounded	reported within the fenced facility,		operator
seabirds and this measure aims to prevent	county animal control is notified or a		
seabird mortality by animals.)	pest control company is hired to		
	remove the predators. A&B will		
	meet the goal stated in KSHCP Table		
	5-1 (Biological Goals),	*	
	"implent[ation] of actions to reduce		
	presence of free-roaming seabird		
	predators."		
Prohibit outdoor feeding of predatory	Policy implemented	N/A	McBryde Resources
animals. (Feeding animals attracts them to			operator
the site and this measure aims to reduce the	·		
presence of animals that can cause seabird			
mortality.)			
Conduct nightly/morning searches to recover	Properties with lights which are	N/A	McBryde Resources
downed birds at the property & turn them	normally turned off and rarely or		operator
into SOS following protocols (see monitoring	never used, will not be searched.		
plan below).	7		
Train staff to follow minimization measures.	Training will be conducted annually	N/A	McBryde Resources operator

Hokulei Shopping Village

Table 5(j): Lighting Minimization Measures at Hokulei Shopping Village

	<u> </u>			
List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Shopping Center	This is a new shopping center which was designed to have dark sky compliant lighting	N/A	Property Manager	Complete
	There are six emergency exit lights which are not totally shielded, but are only turned on when there is an emergency and a power outage	N/A	Property Manager	Complete



Hokulei Shopping Village

Table 6(j): Seabird Mortality Minimization Plan at Hokulei Shopping Village

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of free-roaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented.	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

The Shops at Kukui'ula

Table 5(k): Lighting Minimization Measures at The Shops at Kukui'ula

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
67 LED Streetlights	These fixtures are full cutoff dark sky compliant.	N/A	Property Manager	Complete
6 Flat panel LED Parking Lights	These fixtures are full cutoff dark sky compliant.	N/A	Property Manager	Complete
Numerous shop lighting fixtures	Management and ownership are developing a lighting plan to address fixtures that are not currently dark sky compliant. ¹	Cost for new fixtures will be determined by future lighting plan. 1	Property Manager	Timeline for fixture replacement will be determined by future lighting plan. ¹

¹ KSHCP Table 5-1 (Biological Goals) requires that lighting avoidance and minimization be implemented "by the end of Year 1." A&B will complete its lighting and minimization by the end of Year 1.

The Shops at Kukui'ula

Table 6(k): Seabird Mortality Minimization Plan at The Shops at Kukui'ula

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of free-roaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented.	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

Waipouli Town Center

Table 5(I): Lighting Minimization Measures at Waipouli Town Center

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Shopping Center	All of the lights at this newly purchased shopping center are dark sky compliant. Any replacement of older fixtures will be done with dark sky full cutoff fixtures.	N/A	Property Manager	Complete



Waipouli Town Center

Table 6(I): Seabird Mortality Minimization Plan at Waipouli Town Center

Minimization Measures Describe minimization method (e.g. Cost to Implement Responsible State of the Cost to Im	
trapping, outreach, enact policy)	Staff
Remove & control loose predatory animals at	ager
the facility. (Loose animals can kill grounded property is not possible unless action	
seabirds and this measure aims to prevent is taken by outside agencies to	
discourage ongoing maintenance of a feral cat population immediately adjacent to the property. Until that time, predator control will be limited to dogs, and in the event dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators.	
Prohibit outdoor feeding of predatory Policy implemented. N/A Property Mar	ager
animals. (Feeding animals attracts them to	
the site and this measure aims to reduce the	
presence of animals that can cause seabird mortality.)	
Conduct nightly/morning searches to recover Searches will be conducted as per N/A Property Mar	ager
downed birds at the property & turn them KSHCP guidance.	
into SOS following protocols (see monitoring plan below).	
Train staff to follow minimization measures. Training will be conducted annually. N/A Property Mar	ager

Kukui'ula Development (Plantation Core/The Club)

Table 5(m): Lighting Minimization Measures at Kukui'ula Development (Plantation Core/The Club)

List of Buildings	Minimization Measures	Cost to Implement	Responsible Staff	Timeline
Parking Lots	All lighting is fully shielded, low wattage, and dark sky compliant.	N/A	Engineering Senior Manager	Complete
Cart Barn and Mechanicals	Wall lights are low wattage LEDs, masked by vegetation. The two downward pointing CFL floods at the loading dock are under eves and are only turned on when needed.	N/A	Engineering Senior Manager	Complete
Porte Cochere	All lighting is fully shielded, low wattage and dark sky compliant.	N/A	Engineering Senior Manager	Complete
Kukuiʻula Realty	All lighting is fully shielded, low wattage and dark sky compliant.	N/A	Engineering Senior Manager	Complete
The Club	All lighting fixtures are shielded from above and most are under eaves. The gas pencil light fixtures are extremely dim and are shielded from above.	N/A	Engineering Senior Manager	Complete
Pool area structures	All lighting is fully shielded, low wattage, and dark sky compliant.	N/A	Engineering Senior Manager	Complete
Swimming Pool	All lighting is the lowest wattage necessary for human safety and security.	N/A	Engineering Senior Manager	Complete
Landscaping	All lighting is fully shielded low wattage and dark sky compliant.	N/A	Engineering Senior Manager	Complete

Kukui'ula Development (Plantation Core/The Club)

Table 6(m): Seabird Mortality Minimization Plan at Kukui'ula Development (Plantation Core/The Club)

Minimization Measures	Describe minimization method (e.g. trapping, outreach, enact policy)	Cost to Implement	Responsible Staff
Remove & control loose predatory animals at the facility. (Loose animals can kill grounded seabirds and this measure aims to prevent seabird mortality by animals.)	In the event that cats or dogs are reported on the property, county animal control is notified or a pest control company is hired to remove the predators. A&B will meet the goal stated in KSHCP Table 5-1 (Biological Goals), "implent[ation] of actions to reduce presence of freeroaming seabird predators."	N/A	Property Manager
Prohibit outdoor feeding of predatory animals. (Feeding animals attracts them to the site and this measure aims to reduce the presence of animals that can cause seabird mortality.)	Policy implemented.	N/A	Property Manager
Conduct nightly/morning searches to recover downed birds at the property & turn them into SOS following protocols (see monitoring plan below).	Searches will be conducted as per KSHCP guidance.	N/A	Property Manager
Train staff to follow minimization measures.	Training will be conducted annually.	N/A	Property Manager

Item 9. Take Monitoring Plan. Provide a plan to monitor take of the Covered Seabirds at the facilities proposed to be covered by the incidental take permit/license. The take monitoring plan describes how the property will be searched for downed Covered Seabirds. The KSHCP document provides standards and guidelines for take monitoring to ensure that take of the species is accurately measured and recorded. The regulatory agencies will make the final determination as to the adequacy of the take monitoring plan.

Take monitoring is described in Tables 7(a) through 7(m), below. Additionally, Standard Operating Procedures are included as Appendix C.



Port Allen Solar Farm

Table 7(a): Covered Seabird Take Monitoring Protocols at Port Allen Solar Farm

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	There are only two small full cutoff dark sky light fixtures on the	Search as much area as
that will be searched & the total	control building. They are only illuminated in the case of a	possible
area to be searched	nighttime emergency requiring service in the control building.	
	The site will therefore not be searched for downed birds.	
Frequency of searches	N/A	Twice daily
(# per day or per week)		
Time of day of searches	N/A	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	N/A	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Port Allen Center I and II

Table 7(b): Covered Seabird Take Monitoring Protocols at Port Allen Center I and II

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	100%	Search as much area as
that will be searched & the total		possible
area to be searched		
Frequency of searches	Twice daily.	Twice daily
(# per day or per week)		
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	1-2 searchers, depending on safety considerations.	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Port Allen South Parcels

Table 7(c): Covered Seabird Take Monitoring Protocols at Port Allen South Parcels

Please provide the following informa	Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Percentage of the total property that will be searched & the total area to be searched	Shoreline Parcel will not be searched as there are no lights associated with it.	Search as much area as possible	
Frequency of searches (# per day or per week)	The BEI parcel will be searched twice daily.	Twice daily	
Time of day of searches	The BEI parcel will be searched 2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset, and within 3 hours after sunrise	
Number of searchers per search area	One searcher for the BEI parcel.	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats	
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented	

Port Allen Parking Lots

Table 7(d): Covered Seabird Take Monitoring Protocols at Port Allen Parking Lots

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	100%	Search as much area as
that will be searched & the total		possible
area to be searched		
Frequency of searches	Twice daily.	Twice daily
(# per day or per week)		
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	One	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Port Allen Steel Warehouse

Table 7(e): Covered Seabird Take Monitoring Protocols at Port Allen Steel Warehouse

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property that will be searched & the total area to be searched	Approximately 80% of the property will be searched. Due to high crime, one tenant maintains watchdogs within his fenced yard, rendering about 20% of the property inaccessible to searchers.	Search as much area as possible
Frequency of searches (# per day or per week)	Twice daily.	Twice daily
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset, and within 3 hours after sunrise
Number of searchers per search area	One	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented

Port Allen Marina Center

Table 7(f): Covered Seabird Take Monitoring Protocols at Port Allen Marina Center

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	100% of this site is searchable, as it is paved or built on.	Search as much area as
that will be searched & the total		possible
area to be searched		
Frequency of searches	Twice daily	Twice daily
(# per day or per week)		
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	One	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Pump 3 Hanapepe Valley

Table 7(g): Covered Seabird Take Monitoring Protocols at Pump 3 Hanapepe Valley

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	Properties with lights which are normally turned off and rarely	Search as much area as
that will be searched & the total	or never used, will not be searched.	possible
area to be searched		
Frequency of searches	N/A	Twice daily
(# per day or per week)		
Time of day of searches	N/A	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	One	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Kalaheo Powerhouse

Table 7(h): Covered Seabird Take Monitoring Protocols at Kalaheo Powerhouse

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	Properties with lights which are normally turned off and rarely	Search as much area as
that will be searched & the total	or never used, will not be searched.	possible
area to be searched		
Frequency of searches	N/A	Twice daily
(# per day or per week)		
Time of day of searches	N/A	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	One	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Wainiha Powerhouse

Table 7(i): Covered Seabird Take Monitoring Protocols at Wainiha Powerhouse

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property that will be searched & the total area to be searched	Properties with lights which are normally turned off and rarely or never used, will not be searched.	Search as much area as possible
Frequency of searches (# per day or per week)	N/A	Twice daily
Time of day of searches	N/A	2-3 hours after sunset, and within 3 hours after sunrise
Number of searchers per search area	One	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented

Hokulei Shopping Village

Table 7(j): Covered Seabird Take Monitoring Protocols at Hokulei Shopping Village

Please provide the following inform	Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Percentage of the total property that will be searched & the total area to be searched	100% of this site is searchable.	Search as much area as possible	
Frequency of searches (# per day or per week)	A minimum of twice daily.	Twice daily	
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset, and within 3 hours after sunrise	
Number of searchers per search area	One to three.	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats	
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented	

The Shops at Kukui'ula

Table 7(k): Covered Seabird Take Monitoring Protocols at The Shops at Kukui'ula

Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Percentage of the total property	100% of this site is searchable.	Search as much area as
that will be searched & the total		possible
area to be searched		
Frequency of searches	A minimum of twice daily.	Twice daily
(# per day or per week)		
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset,
		and within 3 hours after
		sunrise
Number of searchers per search	One to three.	Depends on site
area		conditions and safety
		considerations and
		vegetation, nearby
		hazards/threats
Proposed training	Seabird Awareness training will be conducted for employees	Annual training covering
	and operators once a year. See Appendix B1.	seabird identification,
		seabird handling,
		response procedures,
		verified and documented

Waipouli Town Center

Table 7(I): Covered Seabird Take Monitoring Protocols at Waipouli Town Center

Please provide the following inform	Please provide the following information for the protocol items below		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Percentage of the total property that will be searched & the total area to be searched	100% of this site is searchable as it is paved or built on.	Search as much area as possible	
Frequency of searches (# per day or per week)	A minimum of twice daily.	Twice daily	
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset, and within 3 hours after sunrise	
Number of searchers per search area	One to three.	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats	
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented	

Kukui'ula Development (Plantation Core/The Club)

Table 7(m): Covered Seabird Take Monitoring Protocols at Kukui'ula Development (Plantation Core/The Club)

Please provide the following inform	ation for the protocol items below			
Item	Protocol (fill in protocol & provide reasons) KSHCP Guide			
Percentage of the total property that will be searched & the total area to be searched	100% of this site is searchable.	Search as much area as possible		
Frequency of searches (# per day or per week)	A minimum of twice daily.	Twice daily		
Time of day of searches	2-3 hours after sunset, and within 3 hours after sunrise.	2-3 hours after sunset, and within 3 hours after sunrise		
Number of searchers per search area	One to three.	Depends on site conditions and safety considerations and vegetation, nearby hazards/threats		
Proposed training	Seabird Awareness training will be conducted for employees and operators once a year. See Appendix B1.	Annual training covering seabird identification, seabird handling, response procedures, verified and documented		

Item 10. Components of the Green Sea Turtle Minimization and Monitoring Plan (if required). Monitoring and minimization for the Green Sea Turtle is in two parts: A) Monitoring to detect nests and B) Monitoring and minimizing impacts to nests detected.

Part A: Monitoring to detect Green Sea Turtle Nests
Please provide the following information; the table below may be used and altered as needed.

- 1) Detailed location and description of beaches, including linear distance, at which searching for nests of the green sea turtle will take place. Searches should take place at any beach from which light at the facility can be viewed;
- 2) Monitoring protocols indicating:
 - a) Annual training of searchers;
 - b) Frequency of searches;
 - c) Conduct active searching (searching the beach width);
 - d) Sufficient number of trained searchers to cover the area; and
 - e) Record results of search monitoring.
- 3) All Participants are required to record the results of search efforts. Records should provide:
 - a) Evidence (what was seen). Include description and provide photographs
 - b) Location on the beach (GPS) and physically mark the location if possible
 - c) Date and time of day
 - d) Description of surrounding land use (e.g., vacant, or developed), and
 - e) Proximity to the facility.

Part B: Monitoring of Identified Green Sea Turtle Nests

Each identified nest of the green sea turtle should be monitored and protected from light attraction. Please provide the following monitoring protocols; the tables below may be used and altered as needed.

- Light avoidance measure for identified nests (either shield/deactivate lights at the facility or install and maintain a light shield around each identified nest);
- 2. Frequency of searches;
- 3. Number of searches monitoring the nests. The number of needed to monitor active nests will depend on number of nests identified and amount of beach needed to be covered;
- 4. Record the results of nest monitoring. Monitoring should provide:
 - a. Evidence of hatchling emergence (description and photos):
 - b. Date and time of emergence,
 - c. Direction of tracks,
 - d. Condition of the nest area (e.g., disturbed or not).

Coverage for take of Green Sea Turtle (Honu) is not being sought under this application.

Port Allen Solar Farm

Table 8(a): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen Solar Farm

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights	
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)	

Port Allen Solar Farm

Table 9(a): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen Solar Farm

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	

Port Allen Center I and II Table 8(b): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen Center I and II

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Port Allen Center I and II Table 9(b): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen Center I and II

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	

Port Allen South Parcels Table 8(c): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen South Parcels

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed) **KSHCP** Guideline Protocol (fill in protocol & provide reasons) **Item** Location & description of the beach, Not applicable Beach area surveyed should or beaches, surveyed and the linear coincide with visibility from the distance of the beach facility with the lights Frequency of searches Not applicable Weekly during nesting season (# per day or per week) (typ. May 15 to end of August) Number of searchers per search Not applicable Depends on site conditions and safety considerations area Not applicable Searchers should receive annual **Proposed training** training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Port Allen South Parcels

Table 9(c): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen South Parcels

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	

Port Allen Parking Lots

Table 8(d): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen Parking Lots

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Port Allen Parking Lots

Table 9(d): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen Parking Lots

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	

Port Allen Steel Warehouse

Table 8(e): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen Steel Warehouse

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Port Allen Steel Warehouse

Table 9(e): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen Steel Warehouse

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	

Port Allen Marina Center

Table 8(f): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Port Allen Marina Center

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Port Allen Marina Center

Table 9(f): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Port Allen Marina Center

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & providence)	Protocol (fill in protocol & provide reasons)	
Frequency of checks (# per day or per week)	Not applicable		Active nests should be monitored every 1-2 days; then daily during expected hatching date
Light avoidance	Not applicable		If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light
Number of searchers per search area	Not applicable		Depends on site conditions and safety considerations
Proposed training	Not applicable		Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Pump 3 Hanapepe Valley
Table 8(g): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Pump 3 Hanapepe
Valley

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Pump 3 Hanapepe Valley

Table 9(g): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Pump 3 Hanapepe Valley

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Kalaheo Powerhouse

Table 8(h): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Kalaheo Powerhouse

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Kalaheo Powerhouse

Table 9(h): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Kalaheo Powerhouse

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Wainiha Powerhouse

Table 8(i): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Wainiha Powerhouse

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Wainiha Powerhouse

Table 9(i): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Wainiha Powerhouse

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Frequency of checks	Not applicable	Active nests should be monitored
(# per day or per week)		every 1-2 days; then daily during expected hatching date
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Hokulei Shopping Village

Table 8(j): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Hokulei Shopping Village

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

Hokulei Shopping Village

Table 9(j): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for Hokulei Shopping Village

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

The Shops at Kukui'ula

Table 8(k): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at The Shops at Kukui'ula

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)		
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline
Location & description of the beach,	Not applicable	Beach area surveyed should
or beaches, surveyed and the linear		coincide with visibility from the
distance of the beach		facility with the lights
Frequency of searches	Not applicable	Weekly during nesting season
(# per day or per week)		(typ. May 15 to end of August)
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)

The Shops at Kukui'ula

Table 9(k): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization for The Shops at Kukui'ula

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)	

Waipouli Town Center

Table 8(I): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Waipouli Town Center at Waipouli Town Center

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)				
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline		
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights		
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)		
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations		
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)		

Waipouli Town Center

Table 9(I): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization at Waipouli Town Center

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)	

Kukui'ula Development (Plantation Core/The Club)

Table 8(m): Green Sea Turtle Monitoring Protocols – Part A: Monitoring to Detect Nests at Kukui'ula Development (Plantation Core/The Club)

Please provide search protocols for detecting nests of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Location & description of the beach, or beaches, surveyed and the linear distance of the beach	Not applicable	Beach area surveyed should coincide with visibility from the facility with the lights	
Frequency of searches (# per day or per week)	Not applicable	Weekly during nesting season (typ. May 15 to end of August)	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)	

Kukui'ula Development (Plantation Core/The Club)

Table 9(m): Green Sea Turtle Monitoring Protocols – Part B: Monitoring of Identified Nests & Minimization at Kukui'ula Development (Plantation Core/The Club)

Please provide search protocols to monitor identified nests (from Part A) of the green sea turtle (Attach pages as needed)			
Item	Protocol (fill in protocol & provide reasons)	KSHCP Guideline	
Frequency of checks (# per day or per week)	Not applicable	Active nests should be monitored every 1-2 days; then daily during expected hatching date	
Light avoidance	Not applicable	If lights cannot be deactivated or shielded from the nest, each nest should be screened from visible light	
Number of searchers per search area	Not applicable	Depends on site conditions and safety considerations	
Proposed training	Not applicable	Searchers should receive annual training conducted by the DLNR or the USFWS, or their designee (See item 9a)	

Item 11. Describe the schedule that will be followed to provide training for staff. Training must be provided to those that will conduct and oversee the searches at the facility.

The training should include:

- 1. Summary of regulations protecting the Covered Species;
- 2. Search procedures, route, frequency and timing specific to the facility's monitoring plan, for seabirds and green sea turtle nests (if applicable);
- 3. Response procedures including safe and proper techniques for handling seabirds;
- Recognizing evidence of green sea turtle nests, proper nest light screening, and hatchling activity (if green sea turtle minimization and monitoring plan is applicable);
- 5. Procedures to document the results of searches;
- 6. Downed wildlife agency contacts; and
- 7. Nearest SOS aid station.

Please refer to Appendix C for detailed Standard Operating Procedures.

Port Allen Solar Farm

Seabird Awareness and Response Training will be provided to all McBryde Resources staff on an annual basis. A copy of the PowerPoint training module is attached as Appendix B2. See also Standard Operating Procedures (SOP) (Appendix C).

Port Allen Center I and II

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers and staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Port Allen South Parcels

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers and staff that will be conducting the daily seabird searches on the BEI parcel during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Port Allen Parking Lots

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers and staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Port Allen Steel Warehouse

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers and staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Port Allen Marina Center

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers and staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Pump 3 Hanapepe Valley

Seabird Awareness and Response Training will be provided to the McBryde Resources staff. A copy of the PowerPoint training module is attached as Appendix B2. See also Standard Operating Procedures (SOP) (Appendix C).

Kalaheo Powerhouse

Seabird Awareness and Response Training will be provided to the McBryde Resources staff. A copy of the PowerPoint training module is attached as Appendix B2. See also Standard Operating Procedures (SOP) (Appendix C).

Wainiha Powerhouse

Seabird Awareness and Response Training will be provided to the McBryde Resources staff. A copy of the PowerPoint training module is attached as Appendix B2. See also Standard Operating Procedures (SOP) (Appendix C).

Hokulei Shopping Village

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers, individual shopping center managers and the staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

The Shops at Kukui'ula

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers, individual shopping center managers and the staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Waipouli Town Center

Seabird Awareness and Response Training will be provided to the Alexander & Baldwin Property Managers, individual shopping center managers and the staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).

Kukui'ula Development (Plantation Core/The Club)

Seabird Awareness and Response Training will be provided to Kukui'ula staff that will be conducting the daily seabird searches during the fallout season. A copy of the PowerPoint training module is attached as Appendix B1. See also Standard Operating Procedures (SOP) (Appendix C).



Item 12. Describe any outreach conducted (e.g., handing out pamphlets on seabird awareness to facility employees or guests, etc):

Port Allen Solar Farm

The Port Allen Solar Farm will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to McBryde Resources employees and to contractors working outdoors at night at McBryde facilities.
- Post seabird awareness materials in a conspicuous location at the facility.

Port Allen Center I and II

The Port Allen Center I and II will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the Port Allen facilities.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Port Allen South Parcels

The Port Allen South Parcels will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the Port Allen facilities.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Port Allen Parking Lots

Outreach for the Port Allen Parking Lots will consist of posting a seabird informational flyer in the parking lots during the fledging season.

Port Allen Steel Warehouse

The Port Allen Steel Warehouse will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the Port Allen facilities.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Port Allen Marina Center

The Port Allen Marina Center will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the Port Allen facilities.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Pump 3 Hanapepe Valley

The Pump 3 Hanapepe Valley will do outreach to existing staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to McBryde Resources employees and to contractors who will be working outdoors at night at McBryde facilities.
- Post seabird awareness materials in a conspicuous location at the facility.

Kalaheo Powerhouse

The Kalaheo Powerhouse will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to McBryde Resources employees and to contractors who will be working outdoors at night at McBryde facilities.
- Post seabird awareness materials in a conspicuous location at the facility.

Wainiha Powerhouse

The Wainiha Powerhouse will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to McBryde Resources employees and to contractors who will be working outdoors at night at McBryde facilities.
- Post seabird awareness materials in a conspicuous location at the facility.

Hokulei Shopping Village

The Hokulei Shopping Village will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the shopping center.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

The Shops at Kukui'ula

The Shops at Kukui'ula will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working outdoors at night at the shopping center.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Waipouli Town Center

The Waipouli Town Center will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to A&B employees and to contractors working at the shopping center.
- Distribute seabird awareness pamphlets to all tenants of the facility.
- Encourage tenants to post seabird awareness materials in a conspicuous location at their facilities.

Kukui'ula Development (Plantation Core/The Club)

Kukui'ula Development will do outreach to staff during the permit term. During the seabird fledging season they will:

- Distribute seabird awareness pamphlets to Kukui ula employees, each of the facilities within the Plantation Core and to contractors working outdoors at night at the facilities.
- Make outreach materials available to guests at various locations around the facilities.
- Post seabird awareness materials in conspicuous locations at the facilities.

PART 2: Take Estimate1, Requested Amount of Take Authorization, and Funding

Item 1. Show the calculation of estimated take for each of the Covered Species.

Following the take estimation methods in the KSHCP for estimating a Participant's take (Section 6.2.2), the tables below show the take estimate calculation for the facility(s) for each of the Covered Seabirds.

The KSHCP take estimate method utilizes the average of the most recent 5 years of SOS recovery data for the facility. Applied to the data is an adjustment for downed birds not found, based on a 50% discovery rate and an adjustment based on SOS mortality (birds dead on arrival or those that die in care) – average SOS mortality is 12%.

If the landowner-applicant submits a take estimate with an alternate discovery rate, they must provide the reasons why an alternate rate was used to estimate take, including relevant information supporting their reasoning (% of searchable area, search protocols that will be used, any searcher efficiency trials that have been or will be conducted at facilities and/or demonstration of quick, effective recovery of birds). Please include narrative and/or photos and maps to support this.

Table 10: Annual Lethal Estimated Take Calculation

	Newell's Shearwater	Hawaiian Petrel	Band-rumped Storm Petrel
1. Annual average number (SOS data –			
or – monitoring data) of downed			
NESH (5 most recent years), HAPE or			
BRSP (15 most recent years)	3	0	0
2. Annual observed lethal take			
estimate (12% of 1, all downed birds)	.36	0	0
3. Annual unobserved lethal take			
estimate (e.g. 100% of 1, all downed			
birds if 50% searcher efficiency			
assumed)	3	0	0
4. Total estimated annual lethal take			
from light attraction (2+3)	3.36	0	0
Requested Annual Lethal Take	3.46	.1	.033
Requested Take Over Permit Term	104	3	1

¹ Title of table revised per email from K. Cullison 4/10/20.

Preliminary take limits for the license/permit term are provided below. Estimates provided are combined estimates for all A&B facilities listed in this application.

Item 2. Select the requested take authorization and permit/license term coverage for each of the Covered Species.

Table 11: Newell's Shearwater:

Age Class	Annual Take Estimate: Fledglings	Annual Take Estimate: Adults or Sub-Adults	Take Limit for License/Permit Term
Mortality (Lethal)	3.36 ⁱ	0	104 ⁱⁱ
Injury (Non-lethal)	2.64 ⁱⁱⁱ	0	79.2 ^{iv}

This number is repeated from Line 4 of Table 10, above, and should not be added to the number in Table 10.

This number is A&B's <u>requested</u> take limit, repeated from the last line of Table 10, above, and should not be added to the number in Table 10.

This number of nonlethal take is derived by using the formula in KSHCP Section 6.2.2.1. As set forth in Section 6.2.2.1, "Lethal Take =100% undiscovered birds + 12% of birds that are discovered and turned into SOS." It follows, then, that nonlethal take is 88% of birds that are discovered and turned into SOS, or 88% of Line 1 of Table 10.

This number is derived by multiplying 2.64 by 30 years.

Table 12: Hawaiian Petrel:

Age Class	Annual Take Estimate: Fledglings	Annual Take Estimate: Adults or Sub-Adults	Take Limit for License/Permit Term
Mortality (Lethal)	O _i	0	3"
Injury (Non-lethal)	0	0	3 ⁱⁱⁱ

This number is repeated from Line 4 of Table 10, above, and should not be added to the number in Table 10. It is different than A&B's requested annual take for Hawaiian Petrels in Table 10, above, which is 0.1.



This number is A&B's requested take limit, repeated from the last line of Table 10, above, and should not be added to the number in Table 10.

This is A&B's <u>requested</u> coverage for nonlethal take.

Table 13: Band-rumped Storm Petrel:

Age Class	Annual Take Estimate: Fledglings	Annual Take Estimate: Adults or Sub-Adults	Take Limit for License/Permit Term
Mortality (Lethal)	O _i	0	1 ⁱⁱ
Injury (Non-lethal)	0	0	1"

This number is repeated from Line 4 of Table 10, above, and should not be added to the number in Table 10. It is different than A&B's requested annual take for Band-rumped Storm Petrels in Table 10, above, which is 0.033.



This number is A&B's <u>requested</u> take limit, repeated from the last line of Table 10, above, and should not be added to the number in Table 10.

This is A&B's <u>requested</u> coverage for nonlethal take.

Item 3. Funding Assurance. Provide proof of adequate funding (see KSHCP document). All participants must demonstrate requisite funding prior to permit/license approval to ensure that the proposed measures and actions, including monitoring, will be undertaken in accordance with the terms and schedule of the KSHCP.

Alexander & Baldwin, Inc. and its subsidiaries/related entities currently undertake all minimization and conduct all monitoring using existing staff, or outside contractors, as part of annual operating budget, and will continue to do so through the term of the KSHCP. Alexander & Baldwin, Inc. will provide financial assurances as required by the KSHCP.

Signature of Participant:	Date:
Printed Name :	
The undersigned affirms that all the information included is true and accurate to the best of the participant's knowledge and that this PIP is voluntarily submitted.	check to waive confidentiality

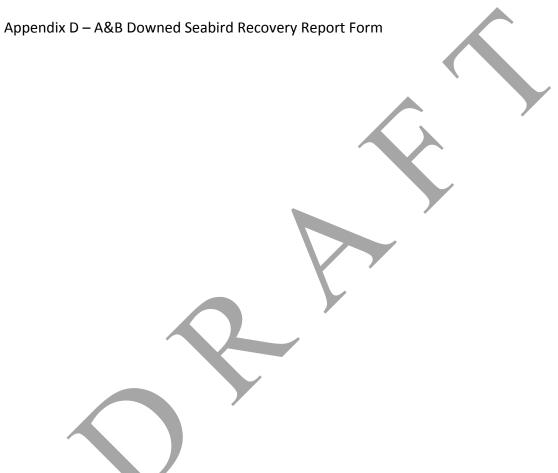
Appendices

Appendix A – TMK Maps and Site Plans

Appendix B1 – Seabird Awareness and Response Training Program (Commercial Properties)

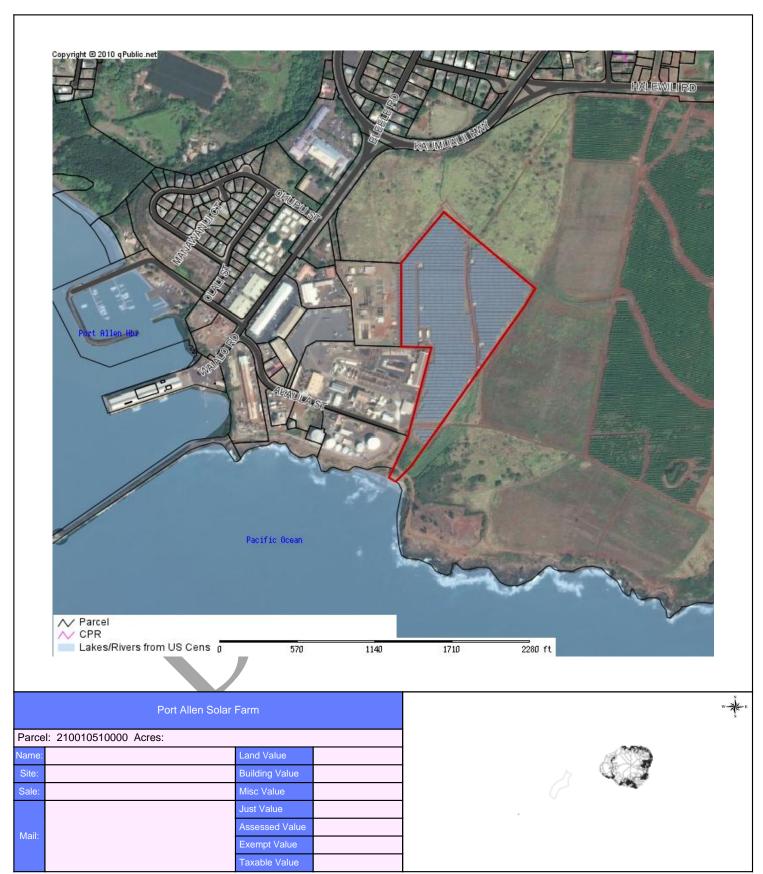
Appendix B2 – Seabird Awareness and Response Training Program (McBryde Facilities)

Appendix C – Standard Operating Procedures





Appendix A



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Site Plan - Port Allen Solar Farm

TMK Nos. (4) 2-1-001:051

(a) through (f) Port Allen Commercial Properties – Overview

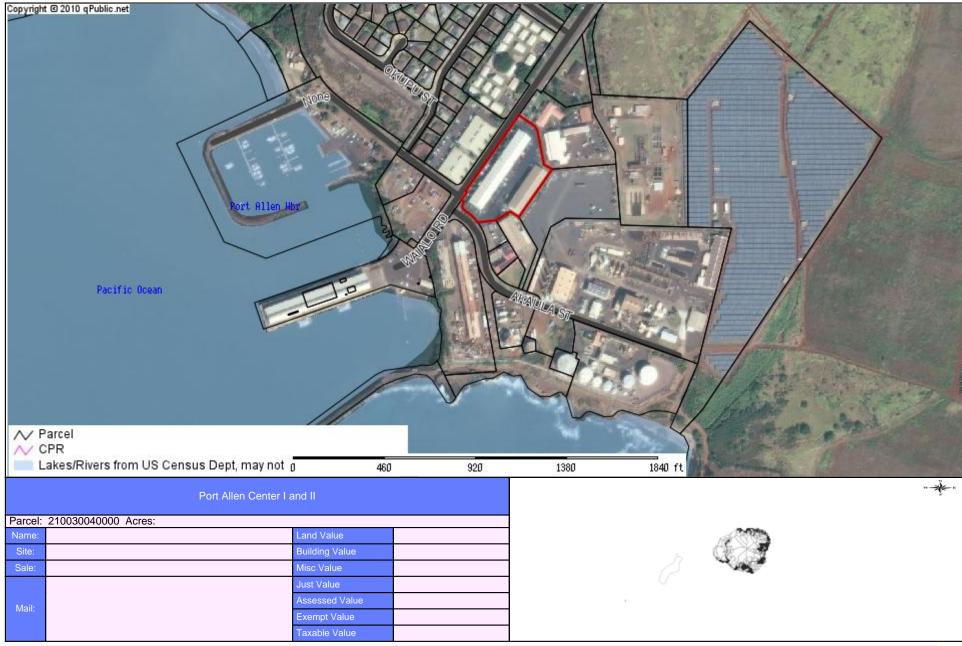


Port Allen Commercial Properties – Overview

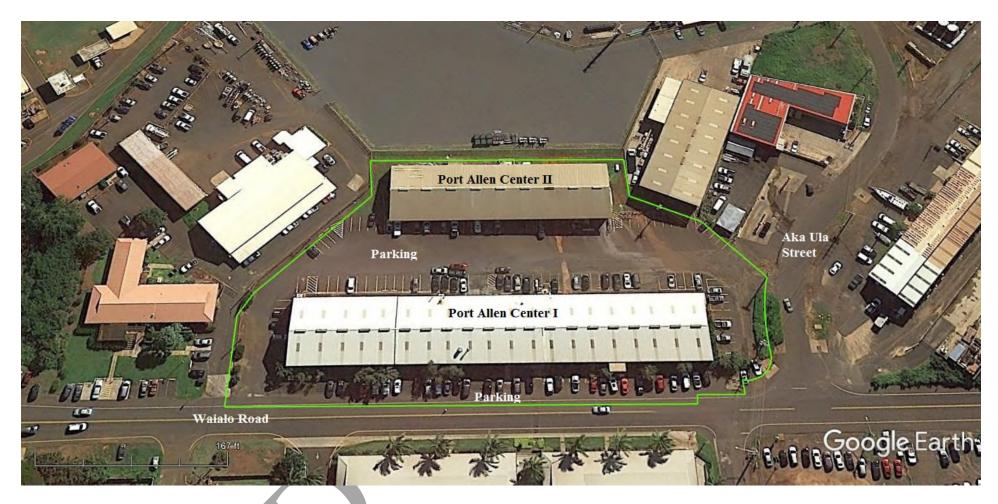
(Note: Letters on map do not coincide with PIP letter designations for the corresponding properties.)

- A Port Allen Marina Center (TMK No. (4) 2-1-003:040)
- B Port Allen Center I (TMK No. (4) 2-1-003:004)
- C Port Allen Center II (TMK No. (4) 2-1-003:004)
- D Steel Warehouse (TMK No. (4) 2-1-003:028)
- E Small Parking Lot (TMK No. (4) 2-1-003:025)
- F Large Parking Lot (TMK No. (4) 2-1-003:026)

(b) Port Allen Center I and II - TMK Map

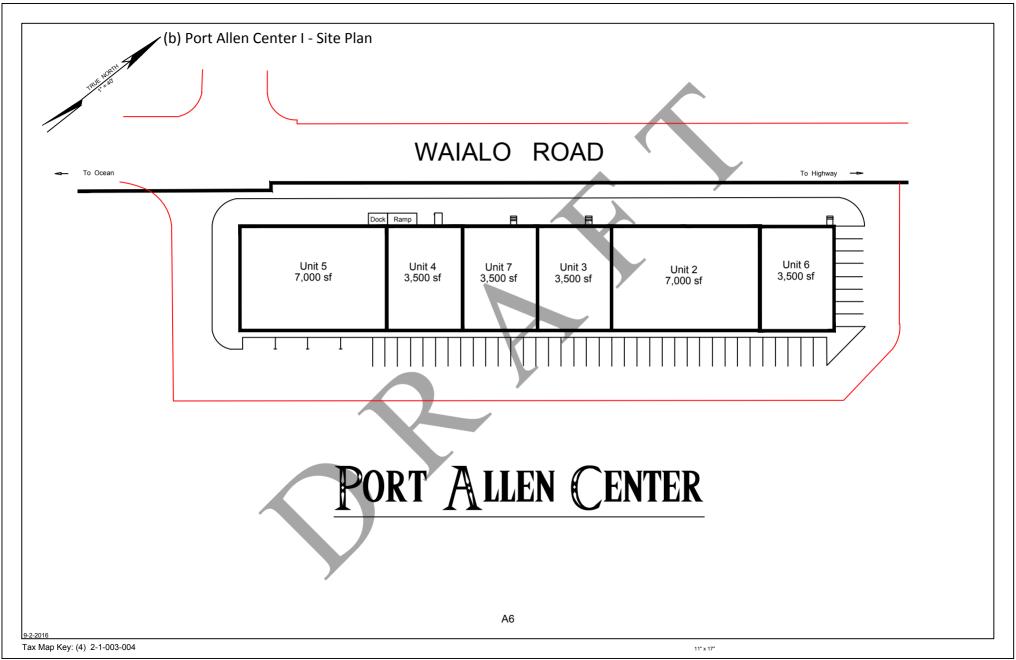


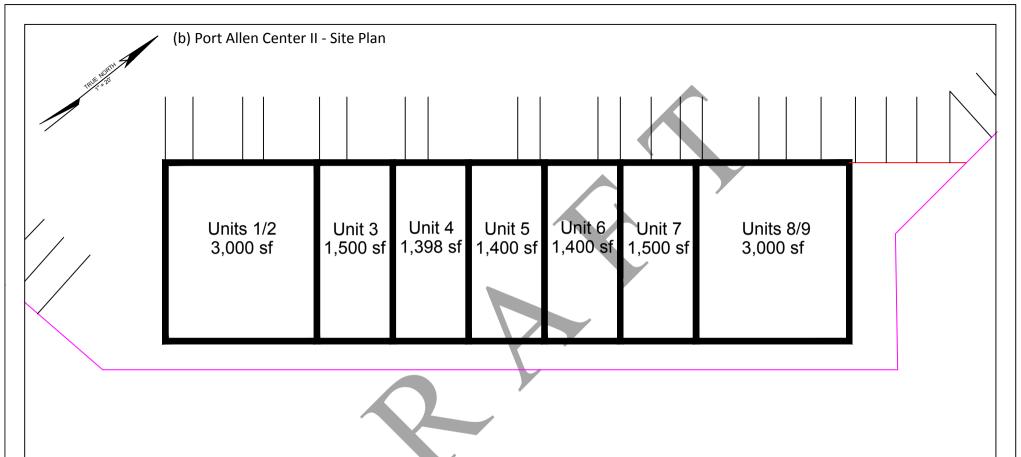
The Kauai County Assessor's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER KAUAI COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY--Date printed: 05/16/19:05:27:31



Port Allen Center I and II – Site Plan

TMK No. (4) 2-1-003:004





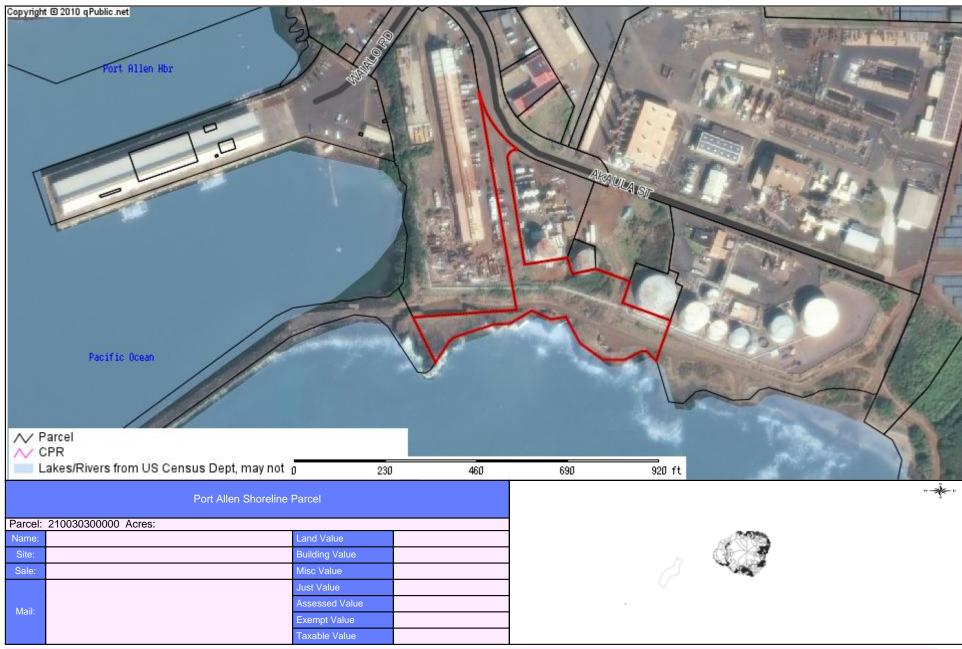
PORT ALLEN CENTER 2

0 20 2014

Tax Map Key: (4) 2-1-003-004

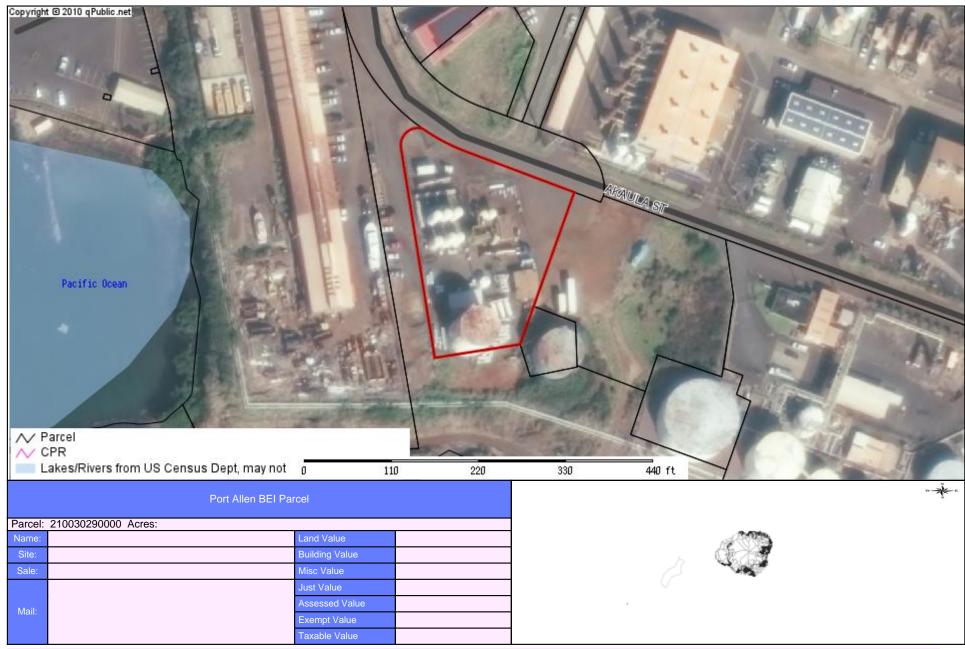
11" x 17"

(c) Port Allen South Parcels - TMK Map (shoreline parcel)



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(c) Port Allen South Parcels - TMK Map (BEI parcel)



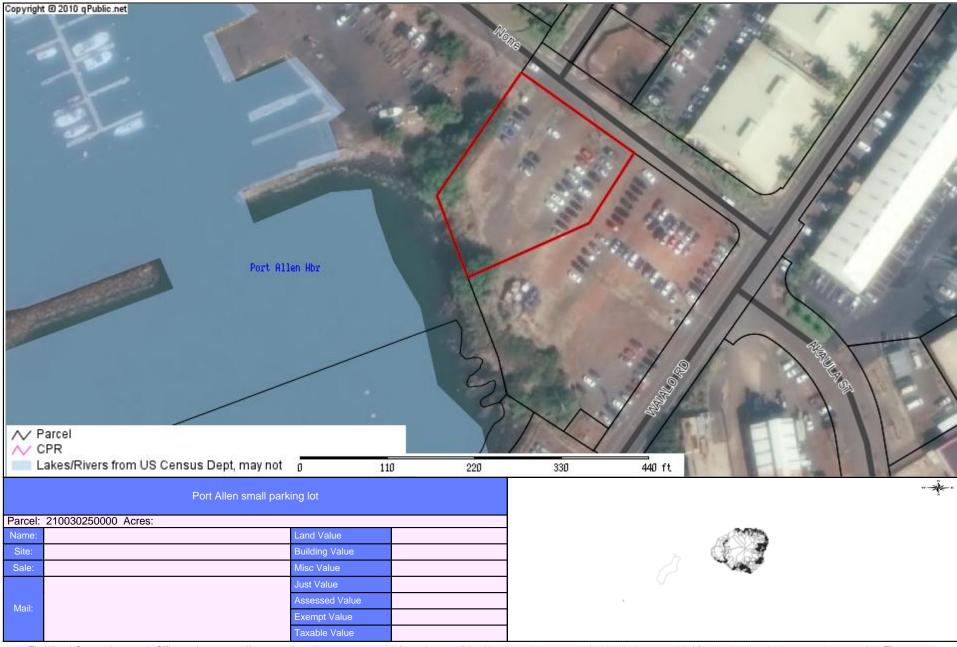
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Port Allen South Parcels – Site Plan

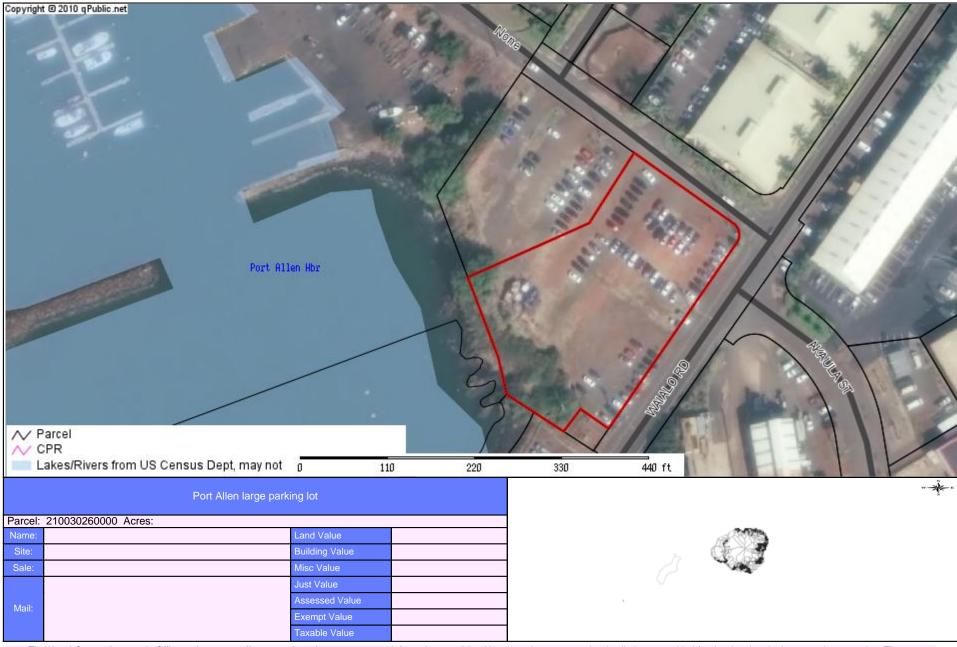
BEI Fertilizer Facility (TMK No. (4) 2-1-003:029) Shoreline Parcel (TMK No. (4) 2-1-003:030)

(d) Port Allen Parking Lots - TMK Map (Small Parking Lot)



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(d) Port Allen Parking Lots - TMK Map (Large Parking Lot)



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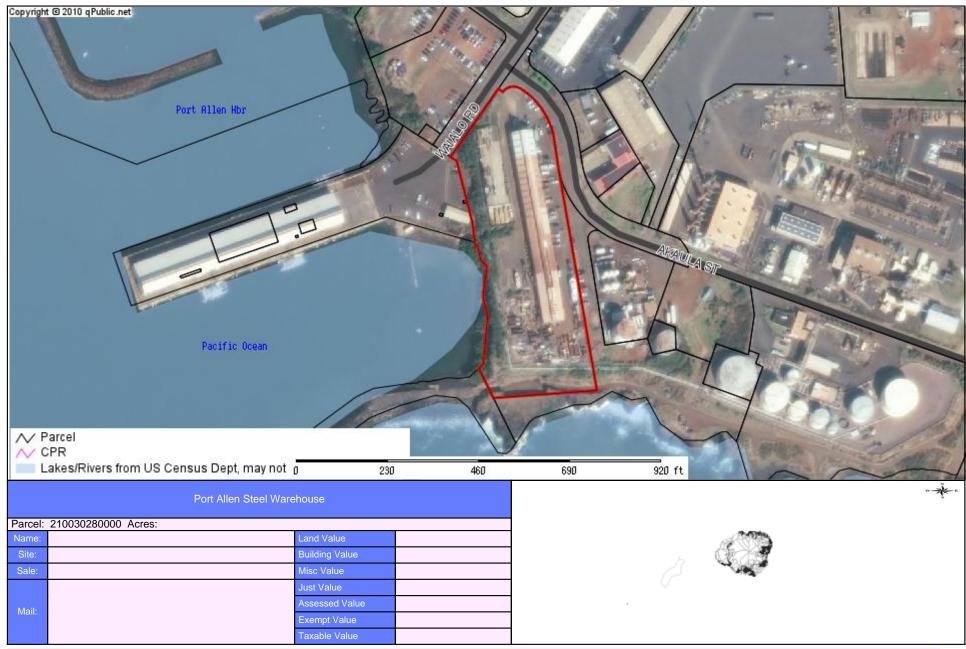


Port Allen Parking Lots – Site Plan

TMK Nos. (4) 2-1-003:025 (small lot) and (4) 2-1-003:026 (large lot)

Note three orange asterisks along Waialo Road and one at intersection of Olali Street and Aka Ula Road denote locations of off-site street lamps.

(e) Port Allen Steel Warehouse - TMK Map



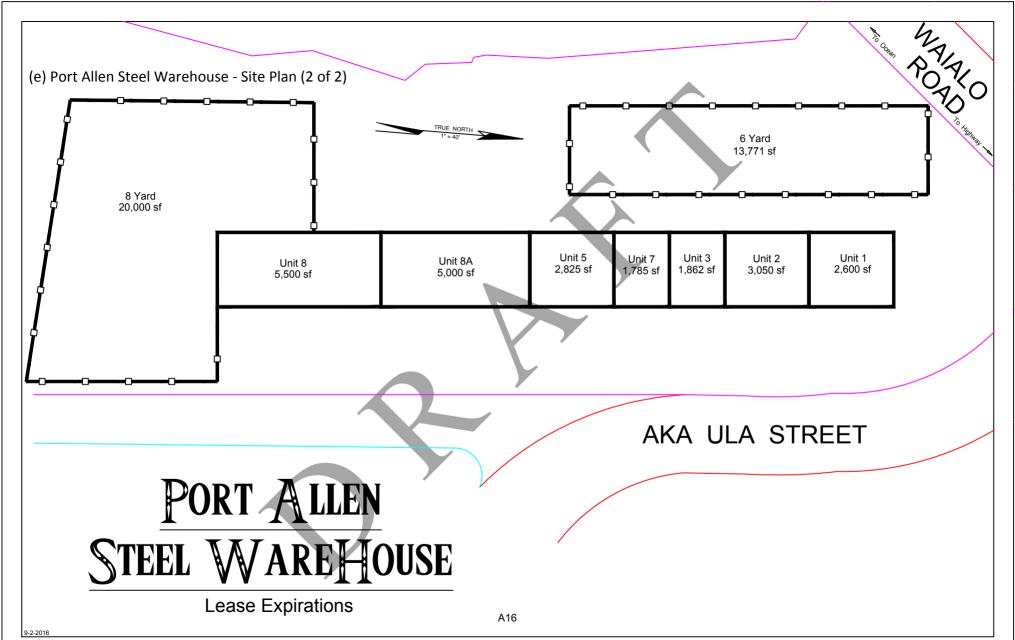
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Port Allen Steel Warehouse – Site Plan

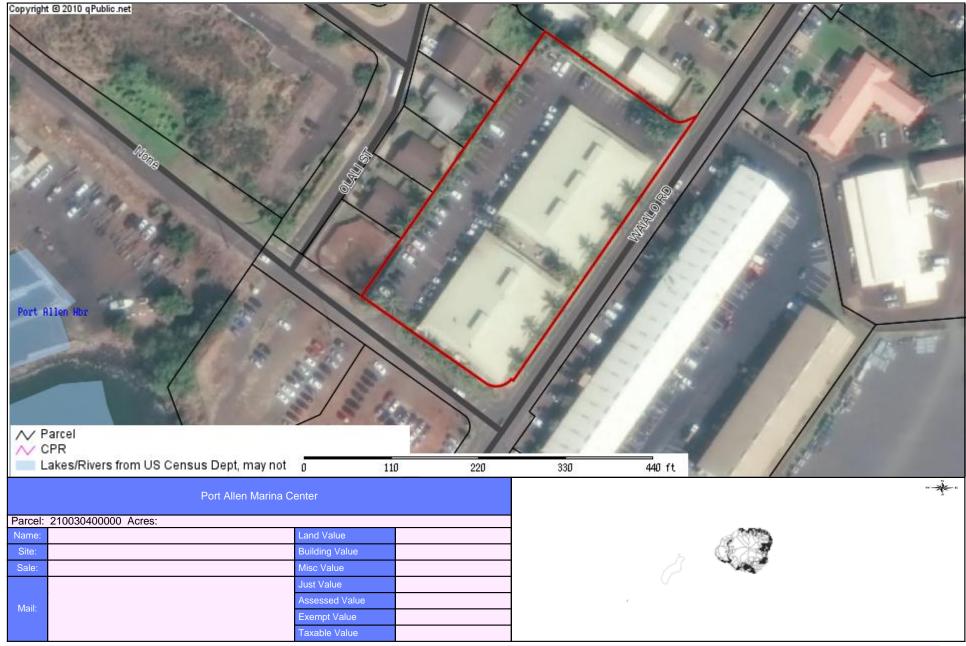
TMK No. (4) 2-1-003:028

Note two orange asterisks along Waialo Road denote locations of off-site street lamps.



Tax Map Key: (4) 2-1-003-028

(f) Port Allen Marina Center - TMK Map



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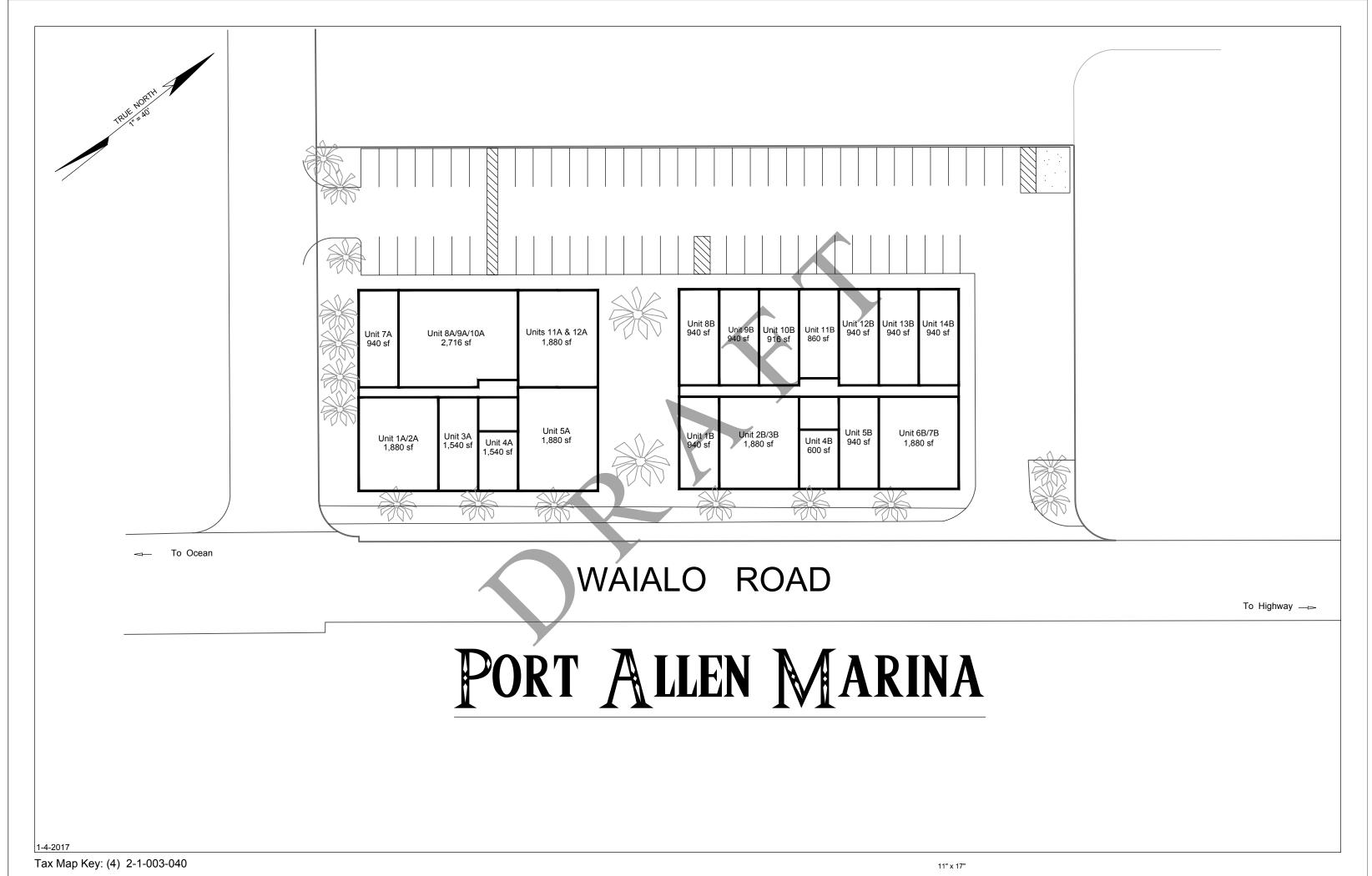


Port Allen Marina Center – Site Plan

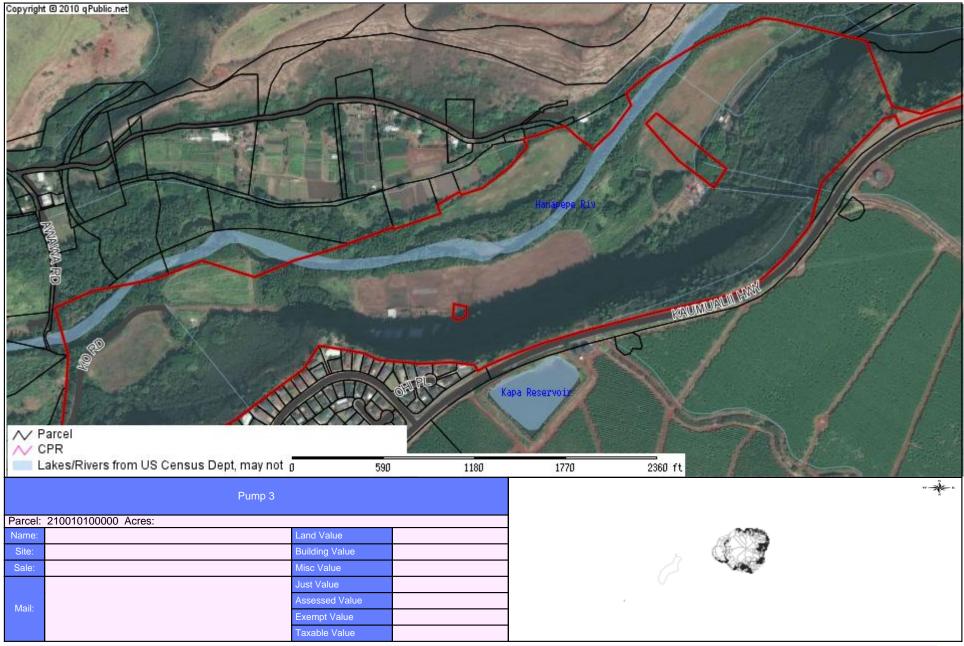
TMK No. (4) 2-1-003:040

Note orange asterisk at corner of Waialo Road and Aka Ula Road denotes location of off-site street lamp.

(f) Port Allen Marina Center - Site Plan (2 of 2)



(g) Pump 3 Hanapepe Valley - TMK Map



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Pump 3 Hanapepe Valley Location Map

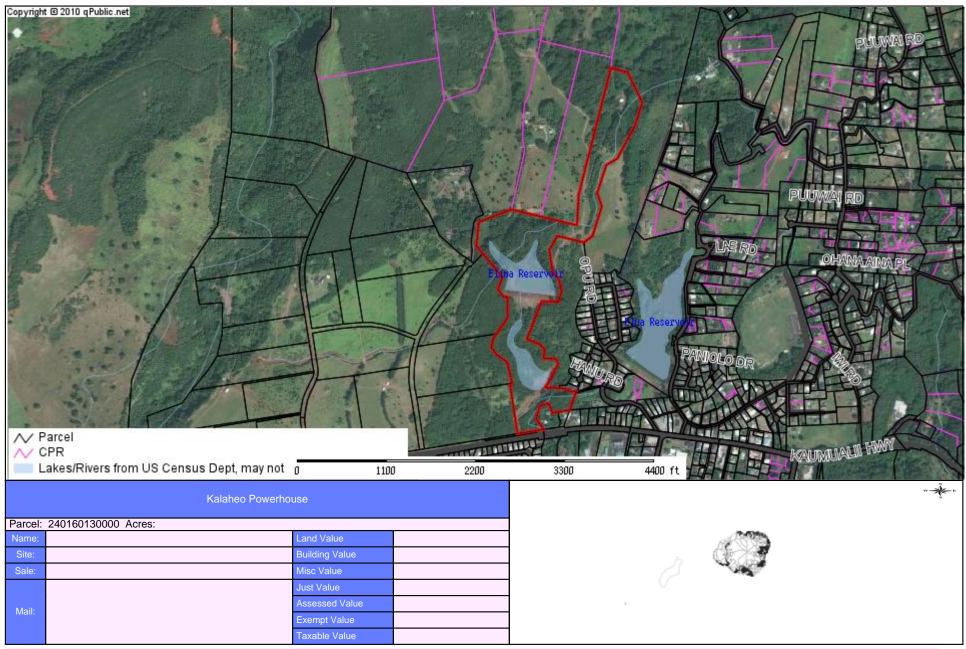
TMK No. (4) 2-1-001:010 (portion)



Pump 3 – Site Plan

TMK No. (4) 2-1-001:010 (portion)

(h) Kalaheo Powerhouse - TMK Map



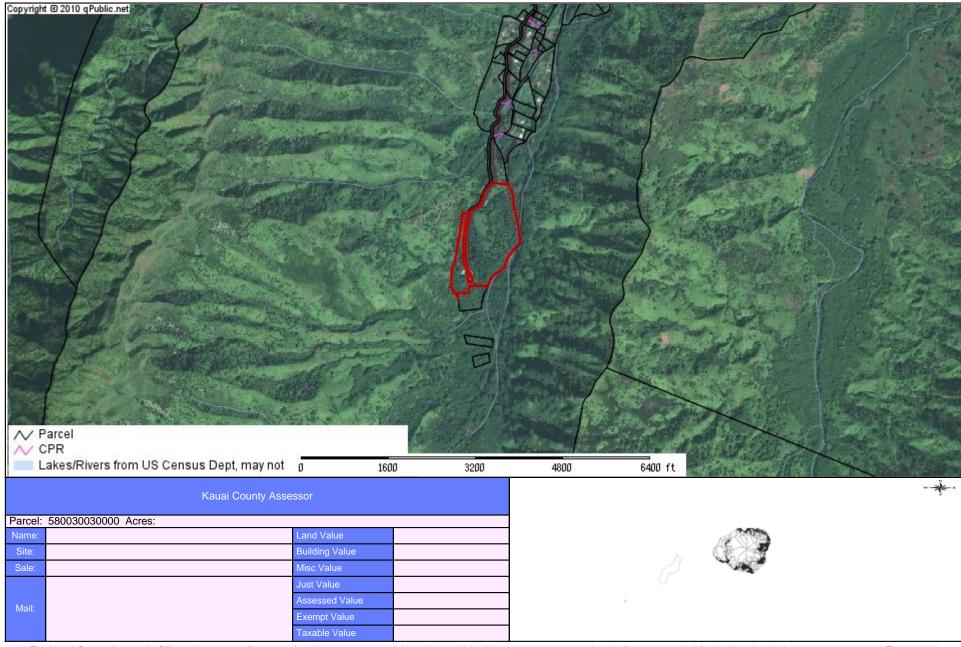
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Kalaheo Hydro Powerhouse Site Plan

TMK No. (4) 2-4-016:013 (portion)

(i) Wainiha Powerhouse - TMK Map



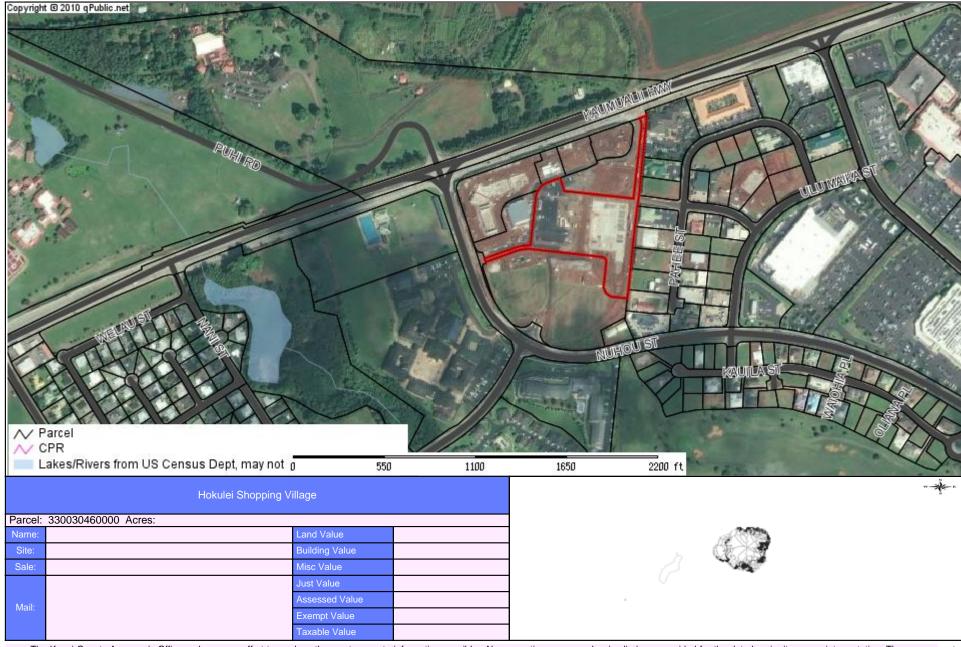
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Wainiha Hydro Powerhouse Site Plan

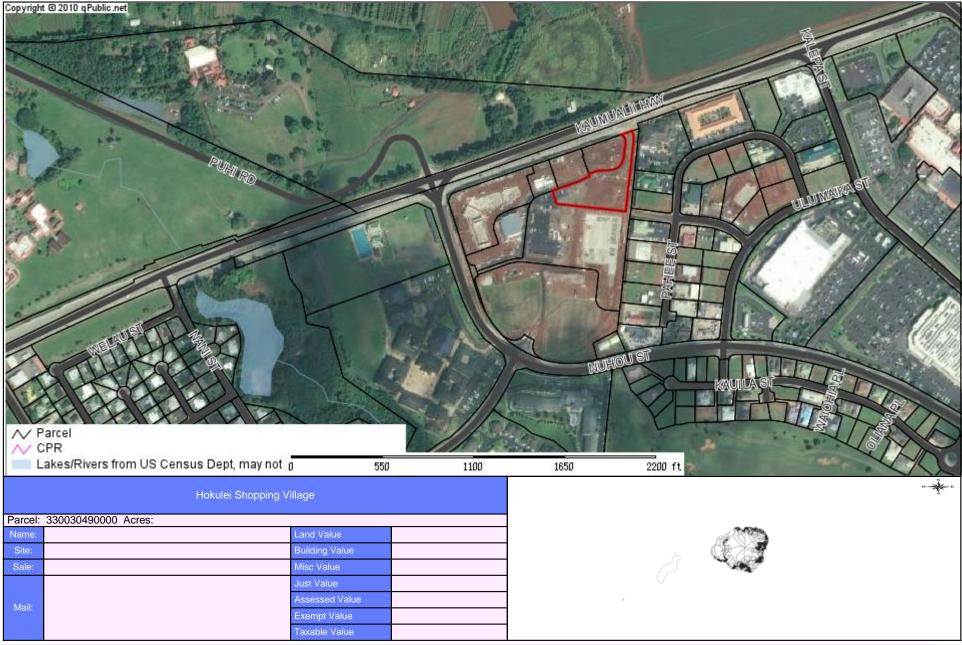
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(j) Hokulei Shopping Village - TMK Map (1 of 6)



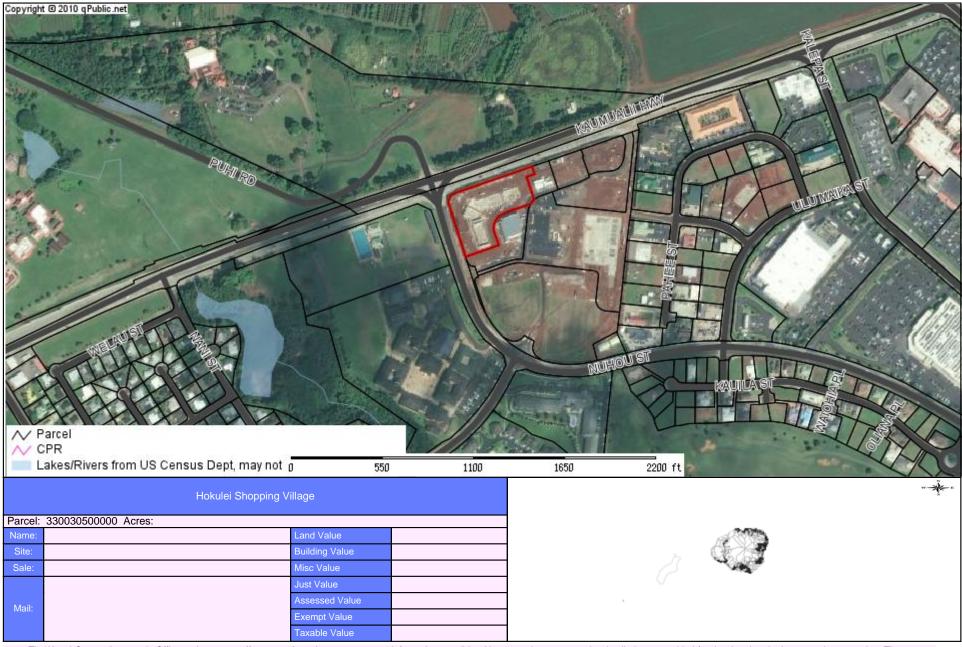
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(j) Hokulei Shopping Village - TMK Map (2 of 6)



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(j) Hokulei Shopping Village - TMK Map (3 of 6)



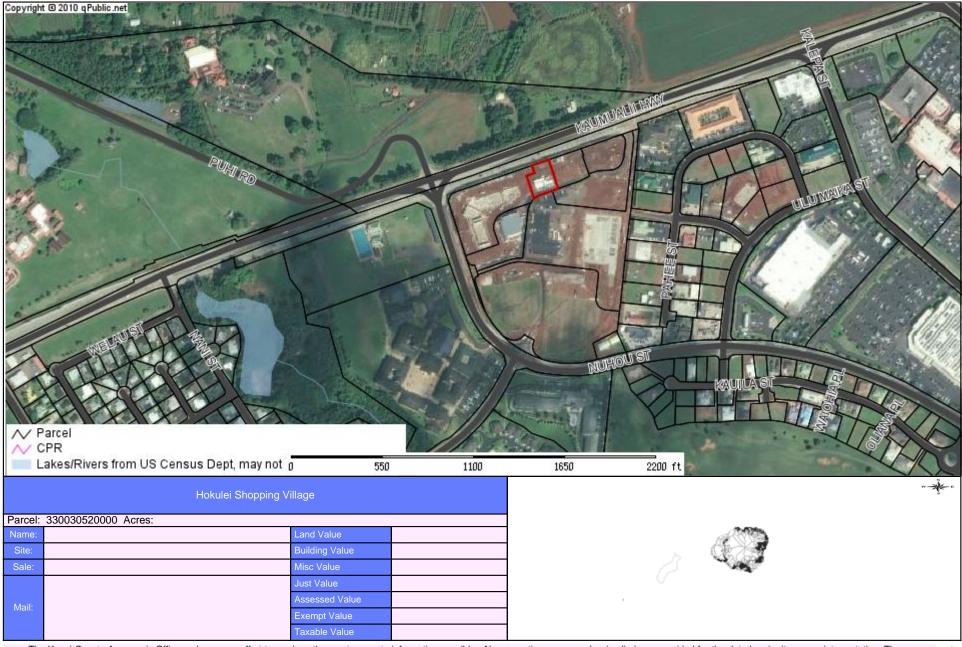
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(j) Hokulei Shopping Village - TMK Map (4 of 6)



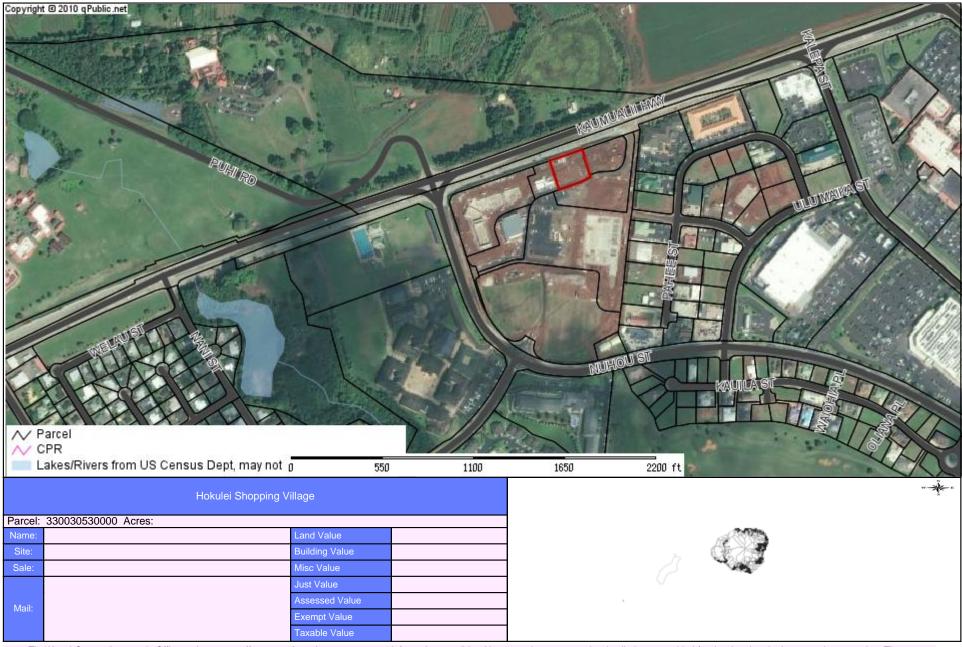
The Kauai County Assessor's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER KAUAI COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY--Date printed: 05/16/19:06:57:18

(j) Hokulei Shopping Village - TMK Map (5 of 6)



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(j) Hokulei Shopping Village - TMK Map (6 of 6)



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(j) Hokulei Shopping Village - Site Plan (1 of 2)

Hokulei Village 4454 Nuhou Street Lihue, HI 96766

KAUMUALII HIGHWAY



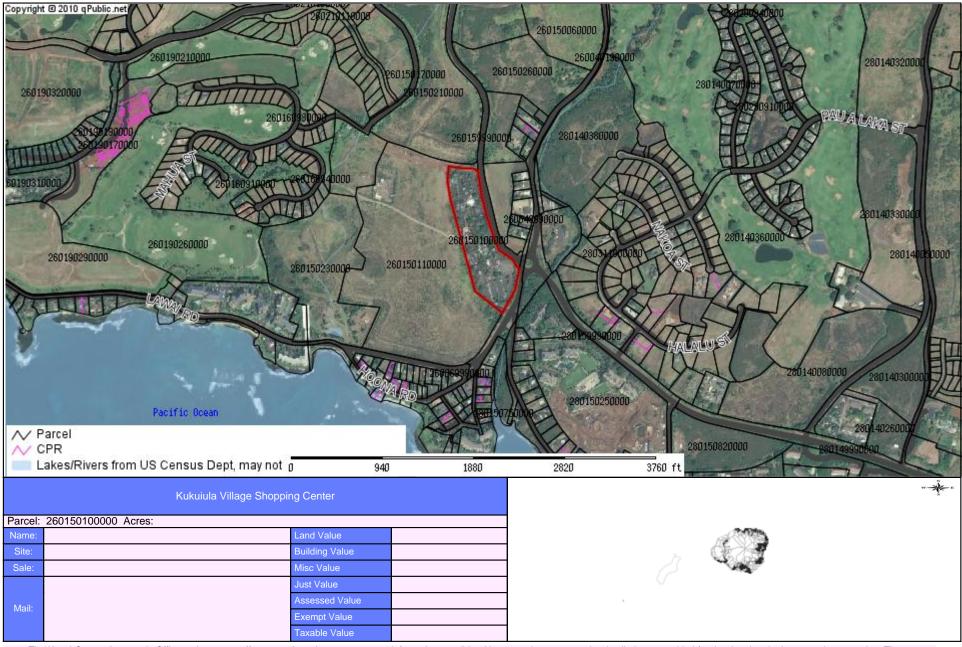


Hokulei Shopping Village

TMK Nos. (4) 3-3-003:046, 049, 050, 051, 052, 053 (No aerial of completed shopping center available on Google Earth)

Note: TMK No. (4) 3-3-003:054 (NE corner of shopping center) is owned by American Savings Bank and is not part of the property.

(k) Shops at Kukuiula - TMK Map

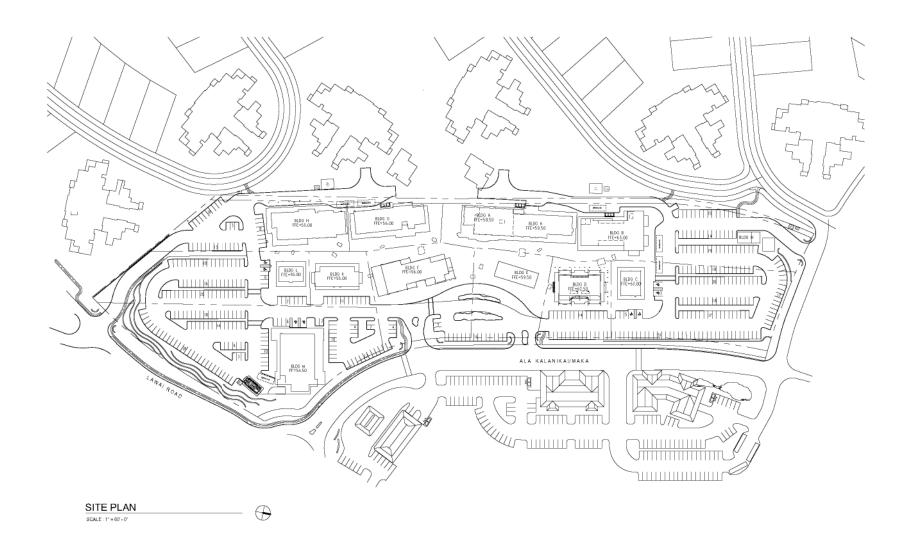


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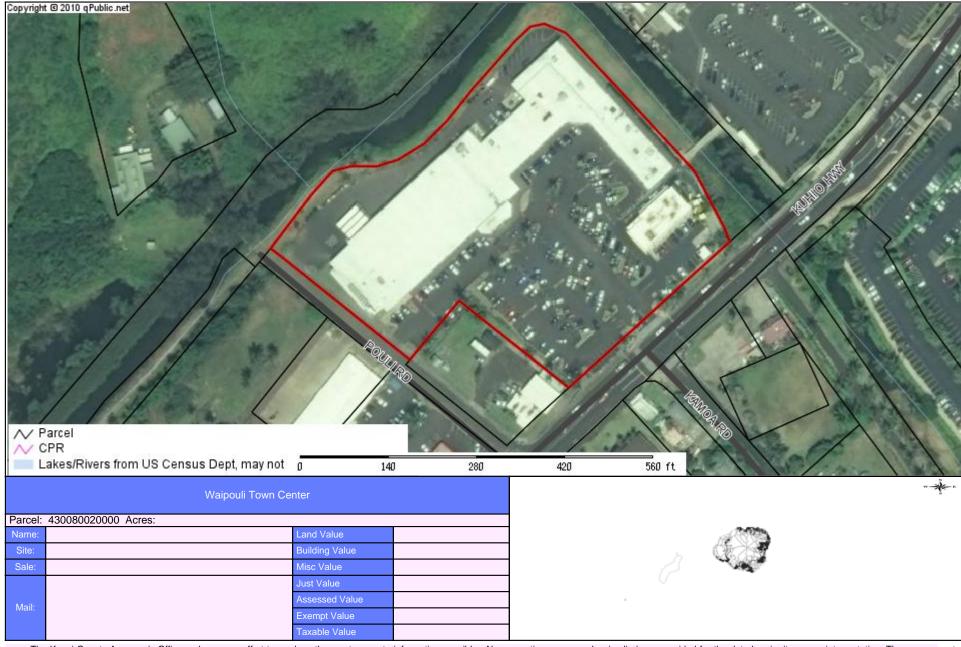


The Shops at Kukui'ula Site Plan

TMK No. (4) 2-6-015:010



(I) Waipouli Town Center - TMK Map



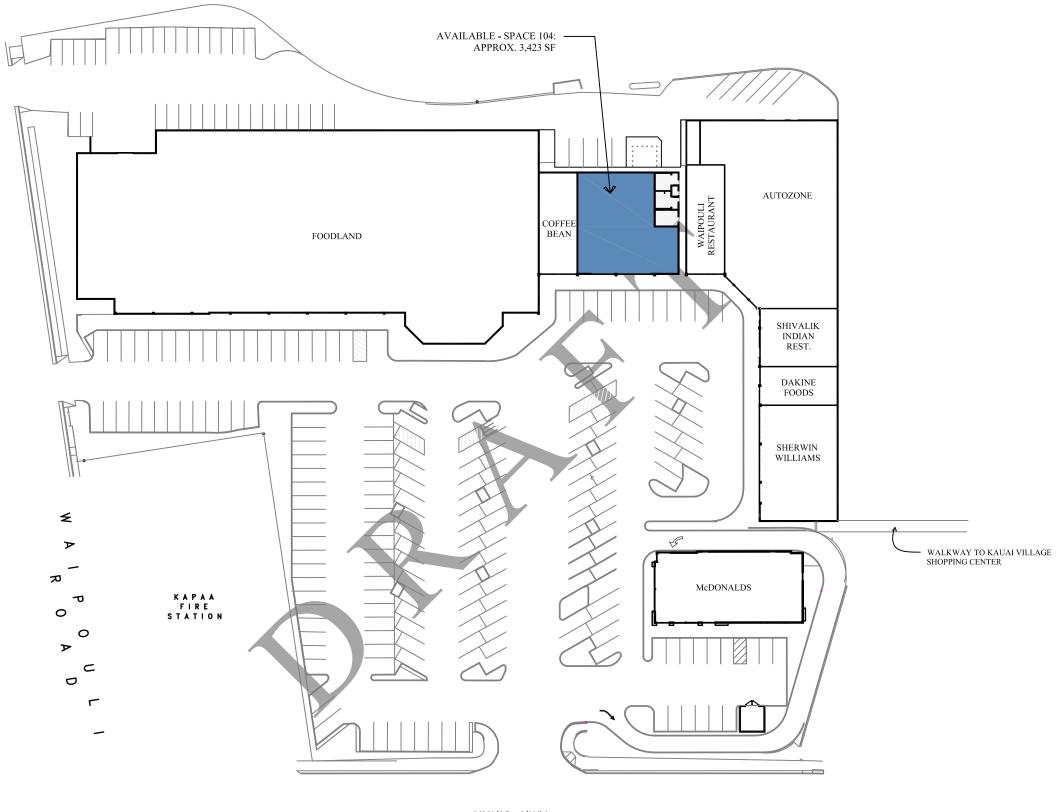
The Kauai County Assessor's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER KAUAI COUNTY NOR ITS EMPLOYEES ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY--Date printed: 05/16/19:05:45:56



Waipouli Town Center (Kapaa) Site Plan

TMK No. (4) 4-3-008:002

(I) Waipouli Town Center - Site Plan (2 of 2)



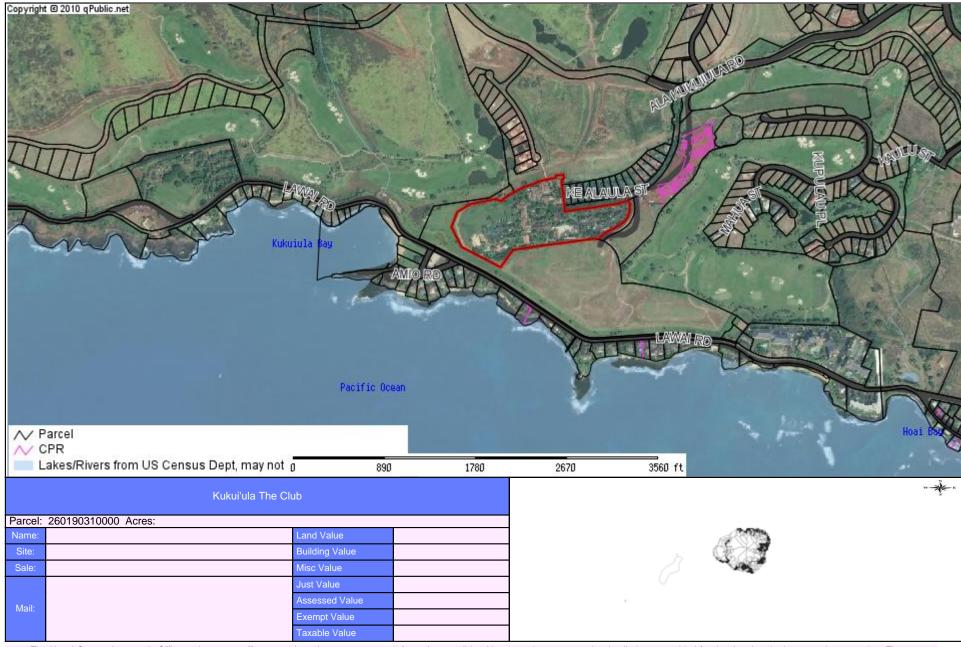
KUHIO HWY.



WAIPOULI TOWN CENTER 4-771 KUHIO HIGHWAY: KAUAI, KAPAA, HAWAII

EXEC. MEETING - DATE: 01.12.18

(m) Kukui'ula Development (Plantation Core/The Club) - TMK Map



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Kukui'ula Development – The Club/Plantation Core Site Plan

TMK No. (4) 2-6-019:031



Appendix B1



Purpose of Training

- Native seabird species including endangered species may "fallout" on any of commercial properties on Kaua'i on a seasonal basis
- Alexander & Baldwin is committed to the protection of these species
- Alexander & Baldwin has specific endangered bird protocols in place that all personnel must follow
- There are potentially significant legal implications if any of these protocols are not followed

Why do Protected Seabirds Land in our Commercial Properties?

- Seabirds that fly at night are often attracted to lights
- Fledgling birds (keiki's) on their way to sea for the first time are often attracted to lights and can be confused by them
- Confused birds may collide with structures, or simply land on the ground, too tired to continue flying
- Once on the ground, they cannot take off again and will die from starvation or be killed by predators if not rescued
- The vast majority of seabird fallout on Kaua'i occurs between September 15 and December 15 each year
- During fledging season, extra vigilance for downed seabirds is necessary, and additional measures to minimize light attraction may be implemented

Regulatory Setting - Protected Species

Federal -

The Endangered Species Act of 1973 (ESA)

Migratory Bird Treaty Act (MBTA)

State of Hawai'i -

Hawaii Revised Statutes Chapter 195D

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

Agency and Endangered Species Program Contacts Who to Call

State Department Land & Natural Resources DOFAW

Thomas Kaiakapu: Wildlife Manager: (808) 274-3440

Alexander & Baldwin Program Coordinators

Port Allen Properties:

Trinette Kaui: Office (808) 335-2850 - Cell (808) 335-9708

Hokulei Shopping Village - Shops at Kukuiula - Waipouli Town Center

Stacie Chiba-Miquel: (808) 742-9002 – Cell (808) 320-7790

The Club - Kukui'ula

Lindsay Crawford (808)742-3046 - Cell (808)652-9379

Reggie David: Cell: (808) 937-0124, email: davidr003@hawaii.rr.com



Seabird Issues cont.

- Once on the ground, seabirds cannot take off again and will die from starvation or be killed by predators if not rescued
- If the seabirds are recovered and turned into the Save Our Shearwaters Program (SOS), almost 90% of them can be returned to the wild
- To protect the seabirds, A&B's commercial properties
 - minimize or shield lights to protect the seabirds
 - search properties to locate downed seabirds

Downed Seabird Response Protocols

- If a downed seabird is found, immediately call your supervisor and as soon as possible the appropriate A & B contact for your property
- First responders will immediately respond to the scene with protective gloves, a clean towel, pet carrier and a digital camera
- Before touching the downed seabird take at least one photo of the scene showing the bird in situ
- Put on protective gloves
- Carefully wrap the bird in a clean towel, place in pet carrier
- Transport the bird to the closest Shearwater Aid Station

Downed Seabird Response cont.

- Summon assistance, and once there are two people on hand remove the bird from the pet carrier and take at least two identification photographs of the animal
- Place the bird in the Shearwater Aid Station
- Fill in the Shearwater Aid Station white board log and prepare and submit a security report, submit to security manager and to respective A&B shopping center point of contact.

Take-Home Message

- Harming listed seabirds may be construed as "take" under the ESA, and/or HRS 195D.
- The minimization and avoidance of "take" to the maximum extent practicable is required under both federal and State of Hawaii endangered species statutes
- Penalties include civil fines of up to \$25,000 per incident, and criminal fines of up to \$50,000, and up to one year federal imprisonment per incident.
- Noncompliance with endangered species rules and protocols may result in fines or criminal prosecution.

Mahalo

Alexander & Baldwin thanks you for your attention to and your assistance with this program

Alexander & Baldwin takes pride in our continued efforts to protect the natural resources on the Island of Kaua'i

Protection of these native birds is everyone's responsibility, and is in the common interest of the Island community and future generations



Appendix B2



Purpose of Training

- Native seabird species including endangered species may "fallout" on any of our facilities on Kaua'i on a seasonal basis
- McBryde Resources and Alexander & Baldwin are committed to the protection of these species
- McBryde Resources and Alexander & Baldwin have specific endangered bird protocols in place that all McBryde personnel must follow
- There are potentially significant legal implications if any of these protocols are not followed

Why do Protected Seabirds Land in our Facilities?

- Seabirds that fly at night are often attracted to lights
- Fledgling birds (keiki's) on their way to sea for the first time are often attracted to lights and can be confused by them
- Confused birds may collide with structures, or simply land on the ground too tired to continue flying
- Once on the ground, they cannot take off again and will die from starvation or be killed by predators if not rescued
- The vast majority of Seabird fallout on Kaua'i occurs between September 15 and December 15 each year
- During fledging season, extra vigilance for downed seabirds is necessary, and additional measures to minimize light attraction may be implemented

Regulatory Setting - Protected Species

Federal -

The Endangered Species Act of 1973, as amended (ESA)

Migratory Bird Treaty Act (MBTA)

State of Hawai'i -

Hawaii Revised Statutes Chapter 195D

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





Seabird Issues cont.

- Once on the ground they cannot take off again and will die from starvation or be killed by predators if not rescued
- If the seabirds are recovered and turned into the Save Our Shearwaters Program (SOS), almost 90% of them can be returned to the wild
- To protect the seabirds, A&B and McBryde
 - minimize or shield lights to protect the seabirds
 - search properties to locate downed seabirds

Downed Seabird Response Protocols

- If a downed seabird is found, immediately call your supervisor and as soon as possible the appropriate A & B or McBryde contact for your facility
- First responders will immediately respond to the scene with protective gloves, a clean towel, pet carrier and a digital camera
- Before touching the downed seabird take at least one photo of the scene showing the bird in situ
- Put on protective gloves
- Carefully wrap the bird in a clean towel, place in pet carrier
- Transport the bird to the closest Shearwater Aid Station

Downed Seabird Response cont.

- Summon assistance, and once there are two people on hand remove the bird from the pet carrier and take at least two identification photographs of the animal
- Place the bird in the Shearwater Aid Station
- Fill in the Shearwater Aid Station white board log and prepare and submit a security report, submit to security manager and to respective McBryde facility point of contact.

Take-Home Message

- Harming of listed seabirds may be construed as "take" under the ESA, and/or HRS 195D.
- The minimization and avoidance of "take" to the maximum extent practicable is required under both federal and State of Hawaii endangered species statutes
- Penalties include civil fines of up to \$25,000 per incident, and criminal fines of up to \$50,000, and up to one year federal imprisonment per incident.
- Noncompliance with endangered species rules and protocols may result in fines or criminal prosecution.

Mahalo

McBryde Resources, and Alexander & Baldwin thanks you for your attention to and your assistance with this program

McBryde Resources, and Alexander & Baldwin takes pride in our continued efforts to protect the natural resources on the Island of Kaua'i

Protection of these native birds is everyone's responsibility, and is in the common interest of the Island community and future generations



Appendix C

A&B STANDARD OPERATING PROCEDURES Seabird Conservation Awareness Plan

PURPOSE: To establish a procedure and seabird awareness training ensuring that that A&B, its subsidiaries and related entities ("A&B") are working partners with federal and State of Hawai'i wildlife conservation and regulatory agencies in efforts to conserve our native Seabirds.

PROCEDURE/SCOPE:

This procedure shall be followed at all A&B properties participating in the Kauai Seabird Habitat Conservation Plan (KSHCP).

From September 15th to December 15th each year, A&B will participate in the search for, and recovery and collection of, downed seabirds (Newell's Shearwater, Hawaiian Petrel, Bandrumped Storm-Petrel and other non-listed seabird species) on its properties.

Training and Awareness

A&B staff at each of the covered properties will participate in an annual Seabird Awareness and Response training.

Property/Facility Managers will educate tenants by sending a letter each year explaining our seabird conservation efforts, the SOS (Save our Shearwaters) Program and the KSHCP, and the role played by A&B, its tenants, contractors, vendors, and guests in protecting seabirds.

A&B will educate its employees about seabird conservation through handouts, individual shopping center quarterly operational meetings and its tenant manuals. Seabird Awareness and Response discussions will also be incorporated into regular pre-shift and operational meetings.

Prior to the start of the seabird fallout season, Property/Facility Managers will conduct a lighting audit at each property with a qualified seabird biologist. The objective of that survey is to identify any lights on A&B's properties that might attract seabirds to the properties. Property/Facility Managers will make the appropriate adjustments to light fixtures as needed.

DLNR and the SOS Program will place SOS Aid Stations on certain properties on or around September 15th each year, including at all of the fire stations around the island and at selected resort properties. There are no SOS Aid Stations on any of the A&B properties covered by this procedure. The location of the nearest aid station to each property will be identified during the annual Seabird Awareness and Response Training.

Property/Facility Managers will ensure that a Downed Seabird Recovery Report Form is completed for each seabird found on or near their respective properties, and will maintain a log for each property of all birds recovered, with all pertinent data. Each time the log is updated, the Property/Facility Manager shall transmit a copy to the A&B Director of Environmental Affairs, who shall maintain a master log of all A&B Properties for periodic comparison to SOS records.

For each bird delivered to an SOS Aid Station, Property/Facility Managers will also ensure that entries are made on the "White Board" at the aid station with the following information:

Date:

Time:

Location found:

Condition of bird: (Good) (Injured) (Dead)

Type: Newell's Shearwater, Hawaiian Petrel,

Band-rumped Storm-Petrel, or other (if known).

Monitoring

Individual Property/Facility Managers will be responsible to ensure that searchers, first responder personnel and all other staff will make it part of their duties during the seabird season to be vigilant about looking for downed seabirds during their respective work shifts, and to follow the downed seabird protocols.

Staff will follow the "Recovery Procedure" below whenever a downed seabird is found on or near the property.

Recovery Procedure:

Deploy the Seabird Recovery Kit. At least one Seabird Recovery Kit shall be available for use at each covered property and shall be stored in a designated location (shared kits may be utilized for multiple properties located in close proximity to each other, such as at Port Allen). Each Kit shall contain the following items:

- Latex or nitrite gloves
- Three towels
- Hand Sanitizer
- Flashlight
- Clip Board, pen, "Downed Seabird Recovery Report Form"

• Bird Carrier (cardboard box or pet carrier; if a box is used, ensure it has adequate ventilation holes) conspicuously marked "Live Animal"

Live Bird Handling and Procedures:

- 1. Take the Seabird Recovery Kit to the downed seabird.
- 2. Put on gloves.
- 3. Using a towel to gently cover the bird, pick up the seabird.
- 4. Place the seabird inside and cover or close the pet carrier/box.
- 5. Take at least one photograph of the bird and sufficient photographs of the location where it was found to allow the location to be identified again later. Submit photographs electronically to the Property/Facility Manager or designee with the corresponding Downed Seabird Recovery Report Form.
- 6. Put the gloves and towel back in the Seabird Recovery Kit.
- 7. Take the bird and pet carrier to the nearest SOS Aid Station.
- 8. Transfer the bird to the Aid Station and fill out the White Board.
- 9. Call SOS at 635-5117 or 632-0610.
- 10. Return the Seabird Recovery Kit to its designated storage location. Replace towel and clean cage with bleach or replace box, if dirty.
- 11. Complete the Downed Seabird Recovery Report Form. If the bird was found off the property (including on an adjacent public road or sidewalk), ensure this is reflected on the form.
- 12. Turn in the completed form to the appropriate Property/Facility Manager or designee, who will then make the corresponding log entry.

Dead Bird Handling and Procedures:

- 1. Take the Seabird Recovery Kit to the downed seabird.
- 2. Put on gloves.
- 3. Take several photographs of the bird and sufficient photographs of the location where it was found to allow the location to be identified again later. Submit photographs electronically to the Property/Facility Manager or designee with the corresponding Downed Seabird Recovery Report Form.
- 4. Double bag dead seabirds in two, two-gallon Ziploc plastic bags.
- 5. Write the date and the name of the property on the outer bag with a permanent marker.
- 6. Place in a refrigerator.
- 7. Complete the Downed Seabird Recovery Report Form. If the bird was found off the property (including on an adjacent public road or sidewalk), ensure this is reflected on the form.
- 8. Turn in the completed form to the appropriate Property/Facility Manager or designee, who will then make the corresponding log entry.

Reporting to Agencies:

In the case of recovered live birds, the responsible Property/Facility Manager or their designee shall call the USFWS and DOFAW within 24 hours of a downed bird being recovered on the property.

If a dead bird is recovered, follow the dead bird handling procedures. The responsible Property/Facility Manager or their designee shall IMMEDIATELY call the DOFAW-Kauai Branch, and follow their instructions. They will most likely pick up the carcass, but in some circumstances may instruct the property owner to dispose of the carcass. If instructed to dispose of the carcass by DOFAW, document this information on the Downed Seabird Recovery Report Form, including the name of the person spoken to at DOFAW.

The responsible Property/Facility Manager shall notify the A&B Director, Environmental Affairs upon discovery of any downed seabird and shall forward by email a copy of the Downed Seabird Recovery Report Form, including any photographs taken. All Property/Facility Managers are encouraged to consult with the A&B Director, Environmental Affairs prior to making reports to regulatory agencies; however, such consultation must not delay reporting beyond the specified deadline.

Review and Update:

This policy shall be periodically reviewed and updated to ensure that it is kept current and accurate.

Contacts:

USFWS To be determined

DLNR-DOFAW 274-3433

Save Our Shearwaters 635-5117 or 632-0610

A&B Environmental Affairs 283-8907

These contacts will be entered/updated once the agencies identify their point people for the KSHCP.



Appendix D

A&B Downed Seabird Recovery Report Form

Please fill in all space and return hard copy to the Property Manager or their designee

Date:	Time:
Location:	
Be specific as possible, i.e	e. Next to the planter in front of Safeway
Who first reported	the bird:
Who responded:	
Photo Y/N:	
Condition of bird; A	live and Well (A), Injured (I), Dead (D):
Disposition:	
Where did the bird end u	p: SOS Aid Station, SOS or DOFAW
SOS AID Station:	
Which SOS AID Station w	ras the bird delivered too.
SOS Log Confirmati	on:
Confirmation that The SC	OS Aid Station "White Board" log was completely filled in:

Species if Known: NESH HAPE BRSP Other

Circle the appropriate species Newell's Shearwater (NESH) Hawaiian Petrel HAPE Band-rumped Storm-Petrel BRSP. Other also includes a bird you can't identify

Notes or other information that you think might be helpful: