

December 18, 2013

Mr. Herman Tuiolosega, Acting Director Office of Environmental Quality Control 235 South Beretania Street, Suite 702 Honolulu, Hawai'i 96813



DEC 2 3 2013



Dear Mr. Tuiolosega:

The University of Hawaii has reviewed the Draft Environmental Assessment (DEA) for the Coconut Island Infrastructure Rehabilitation and Replacement Project, and anticipates a Finding of No Significant Impact (FONSI) determination. Please publish this notice in the next Environmental Notice.

You'll find enclosed a completed OEQC Publication Form, 1 hard copy of the DEA and one CD containing a Word copy of the project summary and a pdf of the DEA document. If you have any questions, please contact me at (808) 956-8018.

Sincerely,

Stephen Meder Interim Assistant Vice Chancellor Physical, Environmental and Long Range Planning, University of Hawaii Manoa

cc: Colette Sakoda, CPE

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2500 Campus Road, Hawai'i Hall 307 Honolulu, Hawai'i 96822 Telephone: (808) 956-8018 Fax: (808) 956-3014

An Equal Opportunity / Affirmative Action Institution

AGENCY ACTIONS SECTION 343-5(B), HRS PUBLICATION FORM (FEBRUARY 2013 REVISION)

Project Name:	Hawai'i Institute of Marine Biology, Coconut Island Infrastructure Rehabilitation and Replacement Project
Island:	Oʻahu
District:	Kāne'ohe
TMK:	(1)4-6-001.001 015 016 017 051
Permits:	National Pollutant Discharge Elimination System (NPDES) Permit (to be submitted
i crimto.	by the contractor prior to construction activities) USACE Section 10 Permit Special
	Management Area Use Permit (SMP) Shoreline Setback Variance (SSV) Permit
	and DLNR easement for utility lines.
Proposing/Determination	Agency:
	University of Hawai'i Manoa
	Office of the Assistant Vice Chancellor for Physical, Environmental and Long Range
	Planning
	2500 Campus Road, Hawai'i Hall 307
	Honolulu, Hawai'i 96822
	Stephen Meder
	(808) 956-8018
Accepting Authority:	Same as above
(<mark>for EIS submittals only</mark>)	
Consultant:	Community Planning and Engineering, Inc.
	1286 Queen Emma Street
	Honolulu, Hawai'i 96813
	Colette Sakoda
	808-833-2225 ext. 1004
Status (check one only):	
✓ DEA-AFNSI	Submit the proposing agency notice of determination/transmittal on agency
	letterhead, a hard copy of DEA, a completed OEQC publication form, along with an
	electronic word processing summary and a PDF copy (you may send both summary
	and PDF to <u>oeqchawaii@doh.hawaii.gov</u>); a 30-day comment period ensues upon
	publication in the periodic bulletin.
FEA-FONSI	letterhead a hard conv of the EEA an OEOC publication form along with an
	electronic word processing summary and a PDE copy (send both summary and PDE
	to oegchawaji@dob hawaji.gov): no comment period ensues upon publication in the
	periodic hulletin
FEA-EISPN	Submit the proposing agency notice of determination/transmittal on agency
	letterhead, a hard copy of the FEA, an OEQC publication form, along with an
	electronic word processing summary and PDF copy (you may send both summary
	and PDF to <u>oeqchawaii@doh.hawaii.gov</u>); a 30-day consultation period ensues upon
	publication in the periodic bulletin.
Act 172-12 EISPN	Submit the proposing agency notice of determination on agency letterhead, an
	OEQC publication form, and an electronic word processing summary (you may send
	the summary to <u>oeqchawaii@doh.hawaii.gov</u>). NO environmental assessment is
	required and a 30-day consultation period upon publication in the periodic bulletin.
DEIS	The proposing agency simultaneously transmits to both the OEQC and the accepting
	distribution list along with an electronic word processing summary and PDE copy of
	the DEIS (you may send both the summary and PDF to
	oegchawaii@doh hawaii.gov): a 45-day comment period ensues upon publication in
	the periodic bulletin.
FEIS	The proposing agency simultaneously transmits to both the OEQC and the accepting
	authority, a hard copy of the FEIS, a completed OEQC publication form, a distribution
	list, along with an electronic word processing summary and PDF copy of the FEIS

Castion 11 200 22	(you may send both the summary and PDF to <u>oeqchawaii@doh.hawaii.gov</u>); no comment period ensues upon publication in the periodic bulletin.
Section 11-200-23	The accepting authority simultaneously transmits its determination of acceptance or
	nonacceptance (pursuant to Section 11-200-23, HAR) of the FEIS to both OEQC and the proposing agency. No comment period ensues upon publication in the periodic bulletin.
Section 11-200-27	
Determination	The accepting authority simultaneously transmits its notice to both the proposing agency and the OEQC that it has reviewed (pursuant to Section 11-200-27, HAR) the previously accepted FEIS and determines that a supplemental EIS is not required. No EA is required and no comment period ensues upon publication in the periodic bulletin.
Withdrawal (explain)	

. . . .

Project Summary:

The University of Hawai'i is proposing to rehabilitate and replace the existing infrastructure at the Hawai'i Insitute of Marine Biology (HIMB) on Coconut Island, Kāne'ohe Bay, Hawai'i. The proposed project includes replacing the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as maintenance/repair items identified as high priority to prevent failure of the exisiting infrastructures at the facility. The following work improvements are part of this project:

- (1) Utility line replacement;
- (2) Re-routing existing gravity sewer lines;
- (3) Sewage pump replacement and wetwell repairs; and
- (4) Lighthouse Pier rehabilitation

The utility line replacement will be conducted using a Horizontal Directional Drilling (HDD) method, which will allow the utility lines to be buried beneath the bottom of Kane'ohe Bay rather than lying on the bottom of the bay as they currently exist. This method will minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during installation. The second work item will involve re-routing the existing sewer line that runs around North Lagoon, which was previously installed to service structures along the northern shoreline of the island. The sewer line will be re-routed and connected to the main sewer line that services the island since these structures no longer exist and because there is no need to continue service to this area of the island. The third item will involve replacement of the pumps at the existing sewer pump station located on the east side of the island in order to support the proposed replacement of the force main. The interior of the wetwell will be coated with epoxy to protect the concrete walls from corrosion. The fourth item will involve demolishing and removing the existing concrete platform of Lighthouse Pier, and replacing it with a new platform of the same footprint. The existing piles, which are in poor structural condition, will be refurbished prior to replacement of the pier's platform. The proposed project is much needed to prevent future failure and interruption of utility services to the island, and to support HIMB's ongoing as well as future research and educational programs. An Environmental Assessment (EA) has been prepared to give systematic consideration to the environmental, social, and economic consequences of the proposed project.

DEPARTMENT OF PLANNING AND PERMITTING CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR . HONOLULU, HAWAII 95813 PHONE: (808) 758-8000 • FAX: (808) 768-6041 DEPT. WEB SITE: <u>www.honoluludpp.org</u> • CITY WEB SITE: <u>www.honolulu.gov</u>

KIRK CALDWELL MAYOR



December 10, 2013

E GOPY

DEC 2 3 2013

Office of Environmental Quality Control State Office Tower, Room 702 235 South Beretania Street Honolulu, Hawaii 96813-2437

Dear Mr. Tuiolosega:

SUBJECT:	Chapter 343, Hawaii Revised Statutes
	Draft Environmental Assessment
	Special Management Area Use Permit and
	Shoreline Setback Variance

Project:	Coconut Island Infrastructure Rehabilitation and Replacement Project
Applicant:	Hawaii Institute of Marine Biology (HIMB)
Agent:	Community Planning and Engineering, Inc. (Colette Sakoda)
Location:	46-007 Lilipuna Road and Coconut Island - Kaneohe Bay
Tax Map Key:	4-6-2: 1, 15, 16, 17 & 51
Request:	Special Management Area (SMA) and Shoreline Setback Variance (SV)
Proposal:	The installation of new utility and telecommunication lines under
	Kaneohe Bay and within the 40-foot shoreline setback.

We respectfully request publication of the Draft Environmental Assessment (DEA) in the next edition of The Environmental Notice. We anticipate a finding of no significant impact (AFNSI) for the proposed installation of new utility lines from the Lilipuna Pier to the research facility on Coconut Island in Kaneohe Bay, the rerouting of on-island sewer lines and pump repairs, and lighthouse pier rehabilitation.

Enclosed is the completed OEQC Publication Form, two hard copies of the DEA and a pdf file on a compact disk. Simultaneously with this letter, these documents were also sent via electronic mail to your office.

If you have any questions, please contact Steve Tagawa of our staff at 768-8024.

Very truly yours,

Serta

SerGeorge I. Atta, FAICP Director

GEORGE I. ATTA, FAICP DIRECTOR

ARTHUR D. CHALLACOMBE DEPUTY DIRECTOR

11 P12

2013/ELOG-2244(ST) 2013/ED-11

Mr. Herman Tuiolosega, Acting Director

GIA:nw Attachments DRAFT ENVIRONMENTAL ASSESSMENT

November 2013

Hawai'i Institute of Marine Biology Coconut Island Infrastructure Rehabilitation and Replacement Project Kāne'ohe, O'ahu, Hawai'i

This document is prepared pursuant to Chapter 343, Hawai'i Revised Statutes

The Applicant: University of Hawai'i Hawai'i Institute of Marine Biology

Approving Agency: City and County of Honolulu Department of Planning and Permitting



Draft ENVIRONMENTAL ASSESSMENT

Hawai'i Institute of Marine Biology Coconut Island Infrastructure Rehabilitation and Replacement Project Kāne'ohe, O'ahu, Hawai'i

Prepared By:

Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'l 96813

The Applicant:

University of Hawai'i Hawai'i Institute of Marine Biology

Approving Agency: City and County of Honolulu Department of Planning and Permitting

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ACRONYMS AND ABBREVIATIONS

ALISH	Agricultural Lands of Importance to the State of Hawai'i
BMP	best management practice
BWS	Board of Water Supply
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CIA	Cultural Impact Assessment
Cl	chloride
CZM	Coastal Zone Management
dBA	decibels
DBEDT	Department of Business, Economic Development and Tourism, State of Hawai'i
DLNR	Department of Land and Natural Resources. State of Hawai'i
DOH	Department of Health, State of Hawai'i
DPP	Department of Planning and Permitting, City and County of Honolulu
EA	Environmental Assessment
EIS	Environmental Impact Statement
FEIS	Final Environmental Impact Statement
EPA	United States Environmental Protection Agency
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
gpm	gallons per minute
HAR	Hawai'i Administrative Rules
HDD	horizontal directional drilling
HDPE	high density polyethylene
HECO	Hawaijan Electric Company
HRS	Hawai'i Revised Statutes
LCA	Land Commission Award
LRDP	Long Range Development Plan
LUC	State of Hawai'i Land Use Commission
LUO	Land Use Ordinance
MCBH	Marine Corps Base Hawai'i
mg/L	milligrams per liter
MMPA	Marine Mammal Protection Act
msl	mean sea level
NAAOS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NSPS	New Source Performance Standards
OEOC	Office of Environmental Quality Control
PSD	Prevention of Significant Deterioration
PV	photovoltaic
	r



PVS	Polynesian Voyaging Society
RCRA	Resource Conservation and Recovery Act
ROH	Revised Ordinances of Honolulu of 1990
SHPD	State Historic Preservation Division
SIP	State Implementation Plan
SMP	Special Management Area Use Permit
SOEST	School of Ocean and Earth Science and Technology
SSV	Shoreline Setback Variance
UH	University of Hawai'i
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
WRCC	Western Regional Climate Center

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SECTION 1 INTRODUCTION

1.1 INTRODUCTION

This Environmental Assessment (EA) is prepared pursuant to Chapter 343, Hawai'i Revised Statutes (HRS) and associated Title 11, Chapter 200, Hawai'i Administrative Rules (HAR). The intent of this document is to ensure that systematic consideration is given to the environmental, social, and economic consequences of the Proposed Action. The Proposed Action is the rehabilitation and replacement of existing infrastructure at the Hawai'i Institute of Marine Biology (HIMB) on Coconut Island, Kāne'ohe Bay, Hawai'i. The Final Environmental Impact Statement (FEIS) prepared for HIMB in 2004 served as an implementation process of the Long Range Development Plan (LRDP), which presents the University of Hawai'i (UH)'s vision to expand world-class marine research, applied research, meeting, and public education activities on Coconut Island while preserving its natural beauty as a whole. This EA serves the purpose of environmental review of more specific work items needed for the rehabilitation and replacement of existing utilities and structures on the island, which is specified in further details in the following section.

1.2 PROJECT INFORMATION

<u>Project Name:</u>	Draft Environmental Assessment Hawai'i Institute of Marine Biology Coconut Island Infrastructure Rehabilitation and Replacement Project Kāne'ohe, O'ahu, Hawai'i
Applicant:	University of Hawai'i
	Hawai'i Institute of Marine Biology
	46-007 Lilipuna Road
	Kāne'ohe, Hawai'i 96744
	Contact: Jo-Ann Leong, Director
	(808) 236-7401
Agent:	Community Planning and Engineering, Inc.
	1286 Queen Emma Street
	Honolulu, Hawai'i 96813
	Contact: Colette Sakoda
	(808) 833-2225 ext. 1004



<u>Approving Agency:</u>	Department of Planning and Permitting City and County of Honolulu 650 South King Street Honolulu, Hawai'i 96813
Project Location:	Coconut Island, Kāne'ohe, Hawai'i
<u>Tax Map Keys (TMKs):</u>	(1)4-6-001:001, 015, 016, 017, 051
Land Area:	Coconut Island: 28.8 acres (6.15 submerged); Lilipuna Road Property: 1.41 acres
State Land Use District:	Coconut Island: Conservation; Lilipuna Road Property: Urban
<u>City and County Zoning</u> <u>Designation:</u>	Coconut Island: P-1, Restricted Preservation; Lilipuna Road Property: R-10, Residential



SECTION 2 PROJECT DESCRIPTION

2.1 SCOPE AND AUTHORITY

This EA is being conducted in accordance with HRS Chapter 343 and associated Title 11, Chapter 200, HAR to evaluate the potential environmental, social, and economic impacts associated with the rehabilitation and replacement of the aging existing infrastructure at Coconut Island. The proposed improvements include:

- Utility line replacement;
- Re-routing existing gravity sewer line;
- Sewage pump replacement and wetwell repairs; and
- Lighthouse Pier rehabilitation.

Environmental permits required for these improvements include a Section 10 United States (U.S.) Army Corps of Engineers (USACE) permit, Special Management Area Use Permit (SMP), and a Shoreline Setback Variance (SSV). This EA is being prepared as part of the application process for the SMP and SSV.

2.2 PROJECT LOCATION

Coconut Island is located in Kāne'ohe Bay on the northeastern side of O'ahu (Figure 1) and comprises two parcels; TMKs (1)4-6-001:001 and (1)4-6-001:051 (Figure 2). Regular access to the island is provided by shuttle boat from Lilipuna Pier. The access drive and parking lot located on TMKs (1)4-6-001:015, 016, and 017 (Figure 2) are surrounded by single family residences. HIMB located on Coconut Island is a world-renowned marine research institute of the School of Ocean and Earth Science and Technology (SOEST) at the UH at Mānoa. Facilities currently located on the island include classroom and laboratory buildings, utility structures, maintenance sheds, housing for students and faculty, as well as research tanks and pens, docks/piers, and manmade lagoons.

2.3 OVERVIEW OF ALTERNATIVES

2.3.1 NO ACTION ALTERNATIVE

Under the No Action Alternative, the proposed rehabilitation and replacement of existing infrastructure at HIMB would not be conducted. Without the proposed improvements, the utility lines that currently service the island will continue to age and be exposed to the elements, which may lead to future failure and interruption of utility services to the island. There is the potential for a major sewage spill in Kāne'ohe Bay if the currently aged sewer line is not replaced. In addition, without replacement of the currently outdated telephone wiring system with a fiber optic cable, HIMB will not be able to support its ongoing or future research programs that require high speed communication capability with research centers around the world.



Without the re-routing of the existing gravity sewer line, there is a potential that the portions of the sewer line where they cross over the water surface of North Lagoon may fail in the future due to corrosion and negatively impact the lagoon water quality. Additionally, without the sewage pump replacement and wetwell repairs, the existing pump station, which is the only mode of sewage conveyance to O'ahu, will continue to age and may cause interruption to HIMB's daily operations. Furthermore, without the rehabilitation of the Lighthouse Pier, the pier will continue to deteriorate and fail to function as a primary arrival point to Coconut Island. Sections of the pier have already fallen into the water below, and without the rehabilitation, the coral underneath the pier will continue to be damaged. The No Action Alternative is not only expected to have negative impacts to the biological and water resources within the project area, and to the aesthetic value of HIMB but is also expected to have negative impacts on HIMB's ability to support its ongoing and future research and educational programs.

2.3.2 THE PROPOSED ACTION – THE PREFERRED ALTERNATIVE

The Proposed Action includes four (4) high priority items which will greatly improve the existing infrastructure at Coconut Island (Figure 3). Appendix A includes the preliminary engineering designs for the improvements.

2.3.2.1 UTILITY LINE REPLACEMENT

The existing sewer, water, electric, and communication lines are laid on the bottom of Kāne'ohe Bay (Figure 3). Due to the age of the lines and exposure to the elements, there are concerns about the long-term viability of these utility lines. The sewer force main, which was installed in the late 1970's, has the highest probability of failure, and there is fear of a potential sewer spill into Kāne'ohe Bay if the force main is not replaced. Replacement of the communication line, which is also considered high priority for HIMB, will replace substandard obsolete telephone wiring with a fiber optic cable line. This will provide HIMB with high speed communication service (10 gigabits per second), allowing for real time communication and data sharing with research centers around the world.

The new utility lines will be installed under the sea floor via two bore holes using horizontal directional drilling (HDD) rather than placing the lines on the bottom of Kāne'ohe Bay. Since its inception in the 1970s, HDD has been a trenchless alternative to underground utility installation. Built-in survey probes used in today's rigs greatly improve reliability and accuracy of the drilling alignment due to the ability to locate the horizontal and vertical location of the drilling head. HDD has been used successfully on many of the City and County of Honolulu sewer force main installations. HDD minimizes the impacts to the surrounding ecosystems by eliminating the release of sediment and impact to the coral. This environmentally friendly method will not affect the water quality in the bay and will have no impact on the corals. Potential impacts to the water quality of the bay may occur during release of drilling mud during the HDD installation. Prevention of drill mud seepage will be a major consideration in the design, and monitoring procedures during drilling will ensure that inadvertent release of drilling mud into Kāne'ohe Bay is prevented. Installed underground, the utility lines will have minimal contact with the elements that would otherwise cause them to deteriorate over time.





Community Planning and Engineering, Inc.

COCONUT ISLAND UTILITY REHABILITATION / REPLACEMENT PROJECT

PROJECT LOCATION MAP KĀNE'OHE, O'AHU, HAWAI'I FIGURE 1











To reduce the number of borings, the sewer and communication lines will be placed together in one bore hole, and the water and electrical lines will be placed together in a separate bore hole. The location of the staging area on the Lilipuna Road property where drilling is to start and the two receiving areas where the utility lines will resurface on Coconut Island are shown on Figure 3. The staging area for the HDD installation will be located in the upslope lawn area adjacent to the existing parking lot at the Lilipuna Road property. Grading will need to be completed in order to maintain a safe slope (5 percent maximum) for the drilling equipment to be placed on the ground.

For each of the two bore holes, installation of the new utility lines will start by drilling a pilot hole between the staging area on the Lilipuna Road property and the receiving area on Coconut Island. The boring will occur approximately 70-80 feet below the bay in order to ensure that it is installed at least 20 feet below the sand and coral bottom of the bay. The hole will then be back-reamed, which increases the hole-size to the final diameter, while releasing a bentonite slurry throughout the bored tunnel. The bentonite slurry is a clay type material which provides lubrication when the utility lines are pulled through the bore hole. The new utility lines will be staged on Coconut Island, from where they will be pulled through the bore hole to the Lilipuna Road property.

To connect the newly installed utility lines to existing systems, trenching will be necessary on Coconut Island as well as within the Lilipuna Road property (Figure 3). The sewer force main will resurface at Receiving Site 1 on Coconut Island and will be connected to the new pump station on the eastern side of the island. The trench that will allow for the sewer force main to be connected to the existing pump station will be approximately 880 feet long, 2 feet wide, and 5 feet deep. The communication line sharing the same bore hole as the sewer force main will also resurface at Receiving Site 1 and will be connected to the existing communication system via a trench approximately 65 feet in length, 2 feet wide, and 3 feet deep.

The new water and electrical lines will resurface at Receiving Site 2 on Coconut Island. The electrical line will be connected to the closest transformer on the island via a trench approximately 260 feet in length, 2 feet wide, and 3 feet deep. The new water line will be connected to the existing water line system on the island via a trench approximately 100 feet in length, 2 feet wide, and 5 feet deep (Figure 3).

The newly installed sewer force main will be connected to the existing sewer system on O'ahu by a trench excavation starting from the staging area on the Lilipuna Road property and up to a new sewer manhole on Lilipuna Road. The sewer line and three sewer manholes will then be installed along Lilipuna Road to connect to the existing City and County of Honolulu sewer system approximately 300 linear feet away. This trench will be approximately 2 feet wide, and 5 feet deep. The communication line trench length will be approximately 100 feet, 2 feet wide, and 3 feet deep. The electrical trench length will be approximately 125 feet, 2 feet wide, and 3 feet deep. The waterline trench length will be approximately 20 feet, 2 feet wide, and 5 feet deep. All trenches will be restored after installation of utility lines. The entire HDD installation process and connection of the new utility lines to the existing utility lines is estimated to take four to five weeks to complete (Figure 3).



2.3.2.2 RE-ROUTING EXISTING GRAVITY SEWER LINE

The existing gravity sewer line that runs around North Lagoon was previously installed to service structures along the northern shoreline of Coconut Island. There are two crossings where the existing sewer line is exposed above the water surface to connect to this part of the island (Photos 1 and 2). The original structures that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The ends of the sewer lines will be capped, and the sewer line will be re-routed and connected to the main sewer line that services the island. Trenching required to re-route the sewer line will be approximately 400 feet long, 2 feet wide, and 5 feet deep (Figure 3). The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be plugged and abandoned in place.



Photo 1: Gravity sewer crossing at northwestern side of North Lagoon



Photo 2: Gravity sewer crossing at northeastern side of North Lagoon

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2.3.2.3 SEWAGE PUMP REPLACEMENT AND WETWELL REPAIRS

The existing sewer pump station (Photo 3) located on the east side of the island was constructed in the late 1970s along with a 4-inch force main. The sewer pump station consists of a 4-foot diameter concrete cylinder wetwell that is approximately 10 feet deep. Wastewater is pumped from the wetwell by two vertical wet-pit centrifugal pumps, each with a capacity of 120 gallons per minute (gpm). Pump operation is controlled by water level sensors set at specified water levels. Currently, the pumps are not operating at their optimal efficiency and the interior of the wetwell wall appears to be pitting. In order to support the proposed replacement force main, the pumps will be replaced, and the wetwell interior will be coated with epoxy to protect the concrete walls from corrosion.



Photo 3: Existing sewer pump station

2.3.2.4 LIGHTHOUSE PIER REHABILITATION

The Lighthouse Pier, located at the West Lagoon of the island, is the primary arrival point on Coconut Island, making it the first impression of this world class marine research facility. The pier is in total disrepair. The concrete pilings have deteriorated, the pier's deck appears to be disconnecting from the lighthouse, and portions of the deck are cracked and sagging. The pier is no longer being used and is off limits due to safety concerns. Rehabilitation of the pier is needed to safely transport researchers, students, visitors, and equipment to Coconut Island. The pier will be repaired, new signage will be added, and the lighthouse adjacent to the pier will eventually be renovated.





Photo 4: Existing Lighthouse Pier deck and pilings



Photo 5: Lighthouse Pier and Lighthouse





Photo 6: Northern edge of existing Lighthouse Pier where the deck is detached from the existing piling

The existing concrete platform of Lighthouse Pier will be demolished and removed, and will be replaced with a new platform of the same footprint. The existing piles which are in poor structural condition will be refurbished prior to replacement of the pier's platform. The existing piles will be rehabilitated using a technology employed by PileMedicTM (see Appendix B) that will minimize potential impacts to the surrounding water and coral. Fiber reinforced polymer laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the existing pile and the laminate, which is usually less than an inch, will then be filled with grout. The bottom of the laminate will be sealed so that the grout does not leak out from the bottom of the wrapped laminate. As the grout fills the space between the pile and the laminate, displaced water inside the laminate will be pumped out rather than discharged into the bay to avoid impacts to the surrounding water. After curing, the final product can produce strengths equal to or stronger than the original piles. The laminates will stay in place permanently. This method also prevents the surrounding water from being contaminated with grout since the laminates wrapped around the piles will act as a barrier against contact with the surrounding bay water.



2.4 PURPOSE AND NEED

The purpose of the proposed project is to satisfy the need for the rehabilitation and replacement of aging infrastructure on Coconut Island that has either failed or has the potential to fail. The island is currently owned by UH Foundation and the State of Hawai'i, and leased to UH. The abundance of marine habitat makes the island an optimal location for the ongoing marine biology research at HIMB. In 1998, a LRDP was completed in order to create and maintain Coconut Island as a world class research institute. These proposed improvements will assist in implementing the vision of the LRDP. This EA is being conducted to evaluate and document the possible environmental, social, and economic consequences of these specific improvements, which have been identified as high priority.

HIMB is a world-renowned marine biology research institute. Programs at the facility include five broad areas of research: coral physiology and ecology; behavior, physiology, and population dynamics of fish; marine endocrinology and aquaculture; marine mammal research; and environmental toxicology. Improvements to the island's facilities will allow for further development of these areas of research. Other uses for the facilities include education, sustainability, and stewardship. Coconut Island serves as an education center for undergraduate and graduate students from UH as well as other institutions. The facility also hosts approximately 4,000 primary and secondary students through field trips each year. A host site for research on sustainability, Coconut Island's future plans according to the LRDP are to also be a model for sustainability, integrating sustainable technologies into the design and renovation of its facilities. Lastly, the island's LRDP calls for the facilities to incorporate values and principles of stewardship in serving to protect and preserve the ocean's resources. Maintenance and improvements to allow for the continued use of the island's facilities is imperative to the continuation of these uses.

The aging sewer force main has a high potential for failure and should be replaced to avoid a sewage spill into Kāne'ohe Bay. Replacement of the current outdated telephone wiring system with a fiber optic cable will provide a higher level of service to Coconut Island allowing for instantaneous communication to various UH campuses as well as research centers around the world. As a world leader in tropical marine biology research, HIMB's need for rapid communication with the world is imperative, making the upgrade of communication lines a top priority of the facility. By replacing all four utility lines using the HDD methodology, risk of a sewage spill, interruption of water and electrical service, and slow communication will be eliminated.

Re-routing of the existing gravity sewer line around North Lagoon will eliminate the use of two sewer line crossings above the water that pose a hazard to the surrounding environment if they fail. Replacement of the sewer pump and wetwell repairs on the eastern side of the island are necessary to support and ensure maximized efficiency of the newly installed sewer force main. Improvements to the utility systems on Coconut Island are in keeping with the LRDP which call for maintaining and expanding its uses for research, education, sustainability, and stewardship.

The Lighthouse Pier with its supporting structures was intended to be the primary arrival point on the island, making it the first impression upon visitors. The poor condition of the pier led to its identification in a 1998 site reconnaissance as in immediate need of reconstruction for safety



purposes. In addition to the daily delivery of personnel by shuttle boat, the pier is the preferred and safest landing point for Honu Kai, the support vessel that carries visitors to the island. However, since the pier cannot safely be used as a landing point, the vessel currently inevitably pulls onto land using the front loading gate, which is not ideal for unloading passengers. The Lighthouse Pier's renovation would provide both aesthetic and functional improvements to accommodate expanded research and the multiple other uses identified in the LRDP.

2.5 REGULATORY FRAMEWORK

The EA is a requirement under Chapter 343 HRS due to the use of State funds, and is also required as part of the SMP and SSV application process. This EA has been prepared in accordance with HRS 343, and its implementing regulations, as well as, Title 11, Chapter 200 of the HAR. In addressing environmental considerations, the following relevant statutes that establish standards and provide guidance on environmental and natural resource management and planning are discussed throughout subsequent sections, and in detail in Section 4 of this EA:

- Section 10 Rivers and Harbors Act of 1899;
- Chapter 343 HRS;
- Chapter 226 HRS;
- City and County of Honolulu General Plan (Amended October 3, 2002);
- Koʻolaupoko Sustainable Communities Plan;
- Coastal Zone Management (CZM) Program; and
- Revised Ordinances of Honolulu 1990 (ROH).

2.6 PUBLIC AND AGENCY CONSULTATION

Meetings and briefings will be held frequently with community leaders and stakeholders throughout the permit preparation, review, and processing stages in order to keep the public informed of the project status as well as to incorporate any concerns or opinions they may have regarding the project. Pre-assessment consultation letters to gather comments for the preparation of this Draft EA were distributed to seventy (70) federal, state, and county agencies, utilities, community organizations and leaders for a 30-day response period ending September 21, 2013 (Appendix C-1). Twenty six (26) response letters were received (Appendix C-2) and were addressed as part of the EA analysis. The availability of this Draft EA will be announced in the State of Hawai'i Office of Environmental Quality Control (OEQC) Environmental Notice publication during the required 30-day public review period.




SECTION 3 ENVIRONMENTAL SETTING AND POTENTIAL IMPACTS

3.1 INTRODUCTION

The environmental, social, and economic setting of the project site and the probable impacts of the No Action Alternative and the Proposed Action - Preferred Alternative are described in this section of the EA. Impacts are evaluated as to whether they constitute a "significant effect" on a particular environmental setting. Impacts are described as having No Impact, Significant Adverse Impact, or Beneficial Impact, to the environment. The terms "impact" and "effect" are used synonymously in this EA. Impacts may apply to the full range of natural, aesthetic, historic, cultural, and economic resources. The following subsections define key terms used throughout Section 3.

3.1.1 SIGNIFICANCE CRITERIA

A "significant effect" is defined by HRS Chapter 343 as "the sum of effects on the quality of the environment, including actions that irrevocably commit a natural resource, curtail the range of beneficial uses of the environment, are contrary to the State's environmental policies or long-term environmental goals as established by law, or adversely affect the economic welfare, social welfare, or cultural practices of the community and State," (State of Hawai'i, 2008).

3.1.2 DIRECT VERSUS INDIRECT IMPACTS

Definitions and examples of "direct" and "indirect" impacts as used in this document are as follows:

"Primary impact" or "primary effect" or "direct impact" or "direct effect" means effects which are caused by the action and occur at the same time and place (HAR §11-200-2). For direct impacts to occur, a resource must be present in the particular study area.

"Secondary impact" or "secondary effect" or "indirect impact" or "indirect effect" means effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems (HAR §11-200-2).

3.1.3 BENEFICIAL VERSUS ADVERSE

Impacts from the Preferred Alternative may also have beneficial or adverse effects to the environment. Beneficial impacts are those that would produce favorable outcomes and add value to the environment. Adverse impacts are those that would produce detrimental effects and cause harm to the environment.



3.1.4 CUMULATIVE IMPACTS

Cumulative impacts are two or more individual effects which, when considered together, compound or increase the overall impact. Cumulative impacts can arise from the individual effect of a single action or from the combined effects of past, present, or future actions. Thus, cumulative impacts can result from individually minor, but collectively significant actions taken over a period of time. The cumulative impacts of implementing the Preferred Alternative along with past and reasonably foreseeable future projects proposed were assessed based upon available information.

3.1.5 MITIGATIVE MEASURES

Mitigative measures are defined as measures taken to avoid, reduce, or compensate for adverse impacts to a resource. Mitigative measures are identified and discussed for each alternative, where relevant. In this EA, mitigative measures are provided to reduce adverse impacts when levels of impact are significant, ensuring levels of impact are reduced to a level of insignificance. Only those mitigative measures that are practical have been identified.

3.2 PHYSICAL ENVIRONMENT

3.2.1 TOPOGRAPHY AND GEOLOGY

3.2.1.1 EXISTING CONDITIONS

The island of O'ahu was formed through the emergence and coalescence of two large shield volcanoes: the Waianae and Ko'olau volcanoes. Eroded remnants of these volcanoes form two of O'ahu's four geomorphic provinces: the Waianae Range on the west and the younger Ko'olau Range on the east. The other two provinces are the Schofield Plateau and the Coastal Plain. Coconut Island was formed following the cessation of activities associated with the Ko'olau volcano and is a remnant portion of a dike system associated with the Ko'olau volcanic dome. Dredging and filling of the island in the 1930s expanded its area to the current acreage of 28.8 acres, with 6.15 acres located within enclosed lagoon areas. Fill that has been added over time to the island is held in place by seawalls of which some parts are failing and causing erosion of the fill material. Elevations on Coconut Island range from 0 feet above mean sea level (msl) at its low-lying shoreline areas to 55 feet above msl at the central top portion of the island where it has been extensively graded and filled to create a flat upper plateau. The shoreline areas of the island are relatively flat.

The Lilipuna Road property is located at the base of a small hill formation resulting in a relatively steep slope within the area. From Lilipuna Road, the property slopes steeply down to Kāne'ohe Bay, and contains a driveway and parking area. The remainder of the property is composed of natural vegetation and some formal landscaping.



3.2.1.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

Under the No Action Alternative, no construction or change in ground surface is expected. No significant impacts to the topography or geology are expected to result from the No Action Alternative.

Preferred Alternative

No significant impacts to the topography or geology are expected to result from the Preferred Alternative. The proposed improvement work items involve ground breaking activities during drilling to place the new utility lines below the bottom of Kāne'ohe Bay and trenching activities to re-route or connect the newly installed utility lines to the existing utility lines. Ground disturbance during drilling will be limited to the access point at the Lilipuna Road property where drilling is to start, the receiving areas on the island where the utility lines. Some grading will be required on the Lilipuna Road property to create a temporary staging area with a safe slope for the drilling equipment. All ground disturbances will be restored to their original condition following construction, and none of the site activities are expected to permanently alter the topographic or geologic conditions of the project area; therefore, no significant long-term impacts are anticipated.

3.2.2 SOILS

3.2.2.1 EXISTING CONDITIONS

The Soil Survey of the Islands of Kaua'i, O'ahu, Maui, Moloka'i, and Lana'i, State of Hawai'i (NRCS, 1972) presents details on the soils present on the Island of O'ahu. The soil type in the project area is classified as the Alaeloa Series. This series consists of well-drained soils on upland slopes on the Islands of Maui, Moloka'i, and O'ahu. These soils developed in material weathered from basic igneous rock.

The entire project area including Coconut Island and the Lilipuna Road property consist of the Alaeoloa silty clay, 40 to 70 percent slopes (ALF) (Figure 4). Areas with this soil type commonly have a slope range of 45 to 53 percent. Runoff is rapid to very rapid, and the erosion hazard is severe for this soil type. The capability classification for this type of soil is VIIe, non-irrigated, indicating that this soil is used primarily for pasture and wildlife habitat.

3.2.2.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

For the No Action Alternative, no adverse impacts to soils are anticipated. The project site conditions would remain the same.



Preferred Alternative

The Preferred Alternative could potentially have temporary impacts on soils during construction activities associated with the utility line replacement and re-routing of the sewer line at North Lagoon. The remaining work items on Coconut Island do not involve any soil disturbing activities; therefore no significant impacts to soil are anticipated.

The HDD installation will require a staging area which will be located at the Lilipuna Road property adjacent to the existing parking lot which is currently an upslope lawn area. Some grading will need to be completed in order to maintain a safe slope (5 percent maximum) for the drilling equipment to be placed. A limited amount of ground surface is expected to be exposed temporarily during these activities. Ground surface will also be exposed during trenching activities on Coconut Island and the Lilipuna Road property when the newly installed utility lines are connected to the existing utility lines.

Exposed soils are susceptible to erosion, especially if it rains heavily during site work periods. Wind erosion may also cause some unavoidable soil loss, but the greater concern is silt runoff into Kāne'ohe Bay. Adverse impacts would be minimized or avoided as a result of both temporary and permanent erosion and sedimentation control measures during ground disturbing and trenching activities. This may include silt fences or grass block pavers in and around the areas where soil may be disturbed to prevent runoff from reaching Kāne'ohe Bay. All proposed work shall comply with State and City and County erosion control standards and requirements. Soil impacts are anticipated to be short-term, and with the implementation of mitigation measures to avoid impacts to the surrounding areas, no significant impacts are anticipated.

3.2.3 FIRE HAZARDS

3.2.3.1 EXISTING CONDITIONS

There are no known existing fire hazards at the Lilipuna Road property or on Coconut Island except for potential fire from existing facilities on the island. The first station to respond in case of a fire on Coconut Island would be the Kāne'ohe Fire Station located across the street from the Kāne'ohe Police Station and Kāne'ohe Public Library on Waikalua Road. Response time is approximately five minutes to the pier. Emergency personnel and equipment would be transported to the island by the shuttle boat via Lilipuna Pier. The secondary response station would be the Aikahi Fire Station located on Kāne'ohe Bay Drive near Kailua Wasterwater Treatment Plant. This station would either take HIMB's boat shuttle from Lilipuna Pier or a shuttle from Marine Corps Base Hawai'i (MCBH). Neither fire stations are equipped with a fire boat or rescue boat on site. A vessel would be requested from the Fire Alarm Bureau or the Fire Department's central dispatching office in case of an emergency.







3.2.3.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts are expected under the No Action Alternative. Existing potential fire hazards posed by the current conditions would remain the same.

Preferred Alternative

No significant impacts are expected under the Preferred Alternative. Construction activities for the Proposed Action will not affect the existing conditions of the fire hazards at the project site as construction practices for fire safety will be implemented in accordance with State and City and County guidelines. These practices include proper fire safety practices and fire hazard awareness for contractors on the work sites. Prior to drilling activities for the utility line replacement, the project sites will be surveyed for the presence of overhead and underground utilities. Daily equipment inspections will be conducted and all vehicles and equipment brought on site will be in proper working condition. All vehicles and equipment will be mounted with appropriately rated fire extinguishers, and additional fire extinguishers will also be available at the project site. All on-site workers will be aware of the locations and operation of fire On-site workers will also be aware of the flammability properties of the extinguishers. chemicals they are working with and their proper storage requirements, and important safety information such as emergency contact numbers, proper emergency evacuation procedures, and designated smoking areas (if smoking is permitted on site). Implementation of these mitigation measures will reduce the potential impact of fire hazard to less than significant at all work sites.

3.2.4 NATURAL HAZARDS: FLOODS, EARTHQUAKES, TSUNAMIS

3.2.4.1 EXISTING CONDITIONS

The Island of O'ahu has the potential to be impacted by several natural hazards including flooding, earthquakes, and tsunamis.

Floods

Flood hazard areas are delineated by Flood Insurance Rate Maps (FIRMs) prepared by the Federal Emergency Management Agency (FEMA), National Flood Insurance Program. The project site is categorized as Zone X and defined as an area outside of the 0.2 percent (500-year flood) annual chance floodplain (Figure 5).

Earthquakes

In Hawai'i, earthquakes are generally linked to volcanic activity and occur thousands of times annually; the vast majority of which are at a very small magnitude. Significant earthquakes have recently originated on the Island of Hawai'i; the most notable of which occurred at a magnitude of 4.9 on August 11, 2012 (USGS, 2013). According to the USGS map of Hawai'i Seismic Zone Assignments established in 1997, O'ahu lies in a seismic zone designated as Zone 2A; in which



the zoning ranges from 0 (no chance of severe ground shaking) to 4 (10 percent chance of severe shaking in a 50-year interval) (USGS, 2001).

<u>Tsunamis</u>

A tsunami is a series of great waves, typically the result of a violent displacement of the seafloor. Tsunamis are characterized by high speeds (up to 560 miles per hour), long wave lengths (up to 120 miles), and long periods between successive wave crests (up to several hours). Tsunamis have the potential to inundate the coastline, causing severe property damage and/or loss of life. Located in the middle of the Pacific Ocean, Hawai'i is susceptible to tsunamis from earthquakes and tsunamis generated in the Pacific Rim of Fire. Although surrounded by a barrier reef that dissipates much of the wave energy and protects the island, Coconut Island and the Lilipuna Road property are within the tsunami evacuation zones (NOAA, 2013).

3.2.4.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to natural hazard vulnerability would result from the No Action Alternative. Susceptibility to natural hazards will remain unchanged within the project area.

Preferred Alternative

The Preferred Alternative would not result in change to the project area's location relative to the natural hazards boundaries from floods and tsunamis. In addition, this alternative would not significantly affect the generation of a natural hazard. In case of a natural hazard during construction activities of the Proposed Action, all site work will cease until it is assured that work can be resumed safely.

3.2.5 BIOLOGICAL RESOURCES

3.2.5.1 EXISTING CONDITIONS

A terrestrial flora and fauna survey as well as marine surveys were conducted by SWCA Environmental Consultants (SWCA) on September 20, 2013 (SWCA, 2013) to document the existing terrestrial and nearshore marine natural resources that may be impacted by the Proposed Action. The surveys were conducted within seven specific areas where construction activities are anticipated to take place or where impacts from construction may occur. These areas included the staging area for the HDD installation located at the Lilipuna Road property where boring is to start; two receiving areas where the utility lines are to exit the underground borings on Coconut Island; the short stretch of roadway between the two on-island receiving areas which may be used as a temporary staging area for equipment and material during the construction period; Lighthouse Pier; the pool house and its vicinity by North Lagoon where rerouting of the existing gravity sewer line will be conducted; and the sewer pump located on the east side of the island. The following is a summary of the findings of the survey. The complete Biological Resource Assessment, which includes a complete species list of the marine organisms found within the surveyed areas, is included as Appendix D.







<u>Flora</u>

No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed within the surveyed areas, and no designated plant critical habitat occurs within the areas. The vegetation observed within the project area is disturbed from previous and current land use activities, thus the vegetation types and species identified are not considered to be unique to the site. Of all 90 plant species observed at the site, only three species; naupaka (*Scaevola taccada*), hau (*Hibiscus tiliaceus*), and milo (*Thespesia populnea*) are considered to be native to the Hawaiian Islands.

<u>Fauna</u>

Twelve (12) bird species were documented during the survey. These species are typically found in gardens and parklands, and included two species of migrant shorebirds: the wandering tattler (*Tringa incana*) and Pacific golden plover (*Pluvialis fulva*), as well as the native great frigate bird (*Fregata minor*). The wandering tattler and Pacific golden plover were mainly observed in the vicinity of the pool house at North Lagoon. Approximately 30 individuals of the native great frigate birds were observed soaring above North Lagoon. Additionally, several individuals of Hawaiian duck-like ducks (*Anas* sp.), likely to be mallard-Hawaiian duck hybrids, were observed swimming in the waters in the vicinity of the Lighthouse Pier. Although not observed, black noddies (*Anous minutes*) are known to forage in Kāne'ohe Bay. They could occasionally forage in the nearshore waters of Coconut Island and may forage near the Lighthouse Pier.

Although surveys for the Hawaiian hoary bats were not conducted, they are known to be strong fliers and could possibly fly to Coconut Island to roost or forage. Tree species such as coconut and mango (*Mangifera indica*) that are known to be forage trees for the Hawaiian hoary bats are present on the island but were not observed within the surveyed areas. No other mammals, reptiles and amphibians, or invertebrates were observed during the survey. Mammals that are expected on the island include rats and mice. The introduced monarch butterfly (*Danaus plexippus*) and the introduced honey bee (*Apis mellifera*) have been documented on the island.

Marine Community

Marine surveys were conducted at four locations by snorkeling or through above-surface observations where it was not safe to enter the water. Three of these locations were on Coconut Island and included the Lighthouse Pier, the receiving area for the water/electric lines, the pool house and vicinity at North Lagoon. The fourth location was the nearshore areas adjacent to Lilipuna Pier. These areas were where in-water work was anticipated (i.e., the Lighthouse Pier) or where anticipated earthwork was close enough to the water that runoff may affect the water quality or the marine organisms in the water.

Location 1: Lighthouse Pier on Coconut Island

The survey at the Lighthouse Pier was conducted by snorkeling along the seaward edge of the pier and looking under the pier to the maximum extent possible. It was deemed unsafe to swim under the pier because concrete slabs had detached from the pier and had fallen underneath the pier. Marine species present within 12 feet away from the pier were also recorded.



Little to no coral was observed more than 6.5 feet under the pier possibly due to the limited light availability. Coral cover increased from about 6.5 feet under the edge of the pier to 12 feet beyond the pier. High coral cover (over 50 percent from a visual estimate) was observed from the edge of the pier out onto the slope. Four coral species: lace coral (*Pocillopora damicoris*), finger coral (*Porites compressa*), rice coral (*Montipora capitata*), and crust coral (*Leprastrea purpurea*) were observed within the area. Most of the coral cover consisted of large colonies of rice coral, largely plate-like in form, intermixed with some branching forms. Away from the pier where there was greater light penetration, finger coral contributed a substantial part of the high coral cover. Large plate-like colonies of rice coral were observed to at least 20 feet off the pier. Most of the living corals seemed to extend farthest out from the midpoint of the pier. Small colonies of blue rice coral (*Montipora flabellata/dilatata/turgescens*) and spreading or sandpaper rice coral (*Montipora patula/verrilli*), which have been proposed for listing by NOAA (2012) but did not observe either of these coral species at the Lighthouse Pier.

Zonation of biota was evident on the piles supporting the pier. In the upper 4 to 8 inches, there were very large (greater than 4 inches) Japanese oysters (*Crassostrea gigas*). Below the Japanese oysters, smaller oysters (*Crassostrea* sp. and *Spondylus violacescens*) were observed in high densities. Rice corals and orange sponge (*Mycale armata*) dominated the lowest parts of the pilings. Very large colonies of the orange sponge, an invasive alien sponge, were observed near the bases of most of the pilings.

Fish diversity was the highest of all surveyed areas at the Lighthouse Pier where 20 fish species were observed. Common species included damselfishes (e.g., kupipi, the Hawaiian or Indo-Pacific sergeant), surgeonfishes (e.g., manini and sailfin tangs [*Zebrasoma veliferum*]), wrasses (e.g., Hawaiian hogfish [*Bodianus bilunulatus*], and saddle wrasse [*Thalassoma duperrey*]) as well as juvenile parrotfishes. Although not observed during the survey, the threatened green turtle (*Chelonia mydas*) has occasionally been seen in waters at the Lighthouse Pier.

Location 2: Water/Electric Lines Receiving Area on Coconut Island

Two nearshore areas, which are downslope of the water/electric lines receiving area and may be affected by the runoff during construction period were surveyed: a small cove ("Shallow Bay") and the floating dock area ("Floating Dock").

At "Shallow Bay," the bottom adjacent to the seawall was completely covered with gorilla ogo (*Gracilaria salicornia*). Large cells of the green alga, sailor's eyeballs (*Ventricaria ventricosa*) and the conspicuous sea cucumber, (*Opheodesoma spectabilis*) were common in this area. On the concrete seawall grapsid crabs (Family Grapsidae) and littorinid snails (Family Littorinidae) were observed. Beyond the gorilla ogo–covered area, approximately 33 feet from shore, the substratum consisted of sand with scattered rubble of dead coral heads. Benthic native species were present in this area with scattered live coral heads of rice coral (*Montipora capitata*), finger coral (*Porites compressa*), and lace coral (*Pocillopora damicornis*) attached to hard surfaces. Juvenile parrotfishes and schools of bait fish, possibly nehu, were observed in the water.

Boat traffic and the floating docks prevented safe entry into the water, therefore survey at the "Floating Dock" consisted of visual inspection of the shallow substratum (approximately 3 feet



from the surface) from the seawall and dock. The most common coral species attached to the seawall were the rice coral with a few small colonies of finger coral and a few colonies of crust coral. The swimming anemone (*Boloceroides mcmurrichi*) was also fairly common. The natural substratum below the seawall had relatively greater densities of rice coral and finger coral. Algae were not conspicuous, and no invasive algae or sponges were observed. Other species observed on the seawall were grapsid crabs, including the rock crab (*Metapograpsus thukuhar*) and the dotted periwinkle (*Littoraria pintado*). Fish species present in the area included damsel fishes such as kupipi (*Abudefduf sordidus*), juveniles of the Hawai'i sergeant (*Abudenduf abdominalis*), and perhaps possibly the Indo-Pacific sergeant (*Abudefduf vaigensis*) or hybrids of the two species. Surgeonfishes such as the manini (*Acanthurus triostegus*) and unidentified gobies were also present. The Hawaiian dascyllus (*Dascyllus albisella*) have been observed at this location, but were not seen during this survey.

Location 3: Pool House and Vicinity Areas at North Lagoon

Surveys were conducted along the edge of North Lagoon out to roughly 10 feet. Visibility was poor at depths greater than approximately 10 feet due to the fine silt. Most of the lagoon floor along the edge of the lagoon, particularly in the southern part of the lagoon, is covered by the invasive gorilla ogo. Small amounts of another introduced alga, *Acanthophora spicifera* were also observed. Other alga such as very large cells of sailor's eyeballs and several sponge species including the introduced lobate sponge (*Suberites zeteki*) and invertebrates such as the feather duster worm (*Sabellastarte spectabilis*), glass anemone (*Aiptasia pulchella*), and the solitary tunicate, the black sea squirt (*Phallusia nigra*) were embedded in the gorilla ogo algal mat. Abundant conspicuous sea cucumbers were present on top of the algal mats.

Only a single small head of rice coral and another small head of lace coral were noted in this location. The mangrove roots that dominated the northern side of the lagoon were colonized by green algae (*Caulerpa* spp.) and a variety of sponges. The silty substratum of the lagoon floor was densely occupied by burrows. Burrows constructed by gobies and acorn worms were observed. Snapping shrimp (Family Alpheidae) could be heard throughout the entire survey. Other burrow-dwelling organisms such as crabs, polychaete worms, shrimps, stomatopods (mantis shrimps), sipunculans (peanut worms) are also likely present; however, a survey of the soft sediment infauna was considered beyond the scope of this survey.

In the vicinity of the two openings of North Lagoon to Coconut Island reef, conditions were somewhat different where sediments were coarser, consisting of sand and gravel instead of silt due to greater water motion. Very small juvenile fishes, likely new recruits, swam in the open water and included damselfishes, the Hawai'i sergeant, and perhaps possibly the Indo-Pacific sergeant or hybrids of the two species, and the surgeonfish, manini. Bait fish, probably nehu, were abundant in the water column. Overall, fish and coral diversity and abundance were low in North Lagoon.

Location 4: Lilipuna Pier

The nearshore area on either side of Lilipuna Pier was surveyed from the shoreline and from the top of the pier. Visual survey was conducted from the shoreline to 33 feet beyond the shoreline. The shoreline at Lilipuna Pier is composed of lava rocks ranging from the size of



boulders to small pebbles. Coral rubble is present in the intertidal area, and immediately seawards in the subtidal zone, clumps of the invasive algae gorilla ogo were visible.

3.2.5.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative may potentially result in negative impacts to the biological resources in the project area. If the sewer force main is not replaced in the near future, there is a possibility of failure due to its age and a possible sewage spill into Kāne'ohe Bay, which could have detrimental effects to the marine resources that currently exist in the bay. In addition, as evident by the fallen slabs of concrete found under Lighthouse Pier during the biological survey, the pier is in disrepair, and if the pier is not rehabilitated, there will be continued negative impacts to the marine species that currently exist in the water surrounding the pier.

Preferred Alternative

No threatened or endangered plant or animal or marine species nor candidate species were found during the flora, fauna, and marine survey of the project area. The project area does not encompass any designated or proposed critical habitat for threatened or endangered species. Several terrestrial and marine species that may temporarily be impacted during the construction period exist in the project area; however, with the implementation of the proposed best management practices (BMPs) during the construction period, no long-term significant impacts to these biological resources are anticipated under the Preferred Alternative.

Construction may temporarily displace the wandering tattler and Pacific golden plover if conducted during the migration season. However, it is expected that these birds would return when construction is complete, and no long-term impacts are expected. Similarly, black noddies may be temporarily displaced during the rehabilitation of the Lighthouse Pier, but the displacement is expected to be temporary and no long-term impacts are expected. Great frigate birds typically fly at high altitudes and are not expected to be affected by the Proposed Action.

At the Lighthouse Pier where in-water work is expected, SWCA estimates that there would be approximately 6 feet of water above the shallowest coral at low tide. Use of a barge or workboat with less than a 4-foot draft tied off along the length of the pier during construction at most tide state (except for during minus/negative low tides) would allow work to be conducted without damaging the corals. The west end of the pier where the wooden boat landing ramp is attached, living corals are present in much shallower depths (approximately 2 feet at low tide). In-water work in this area will be avoided to prevent damage to the corals. If it is determined necessary, translocation of the corals in this area may be considered during the detailed design phase of the project. There will be no work on the pilings underwater where the corals are attached; therefore, no impacts to the corals attached to the pilings are anticipated. Although no underwater work on the pilings are anticipated, in order to prevent spreading of the invasive orange sponge present on the existing pilings, care will be taken to minimize creation of sponge fragments during construction.



Although not observed during the survey, the threatened green turtle has occasionally been seen in waters at the Lighthouse Pier. Construction activities at the pier may temporarily displace turtles from the surrounding water; however, displacement is expected to be temporary, and no long-term impacts to the green turtles are expected. In-water work will cease if the threatened green turtle is seen within 50 yards of the in-water construction area until the green turtle voluntarily leaves the area. Any construction-related debris that may pose an entanglement threat to turtles will be removed from the construction area at the end of each day and at the conclusion of the construction project.

During the construction period for the remaining work items included in the Proposed Action (i.e., utility line replacement, re-routing of the gravity sewer line, sewage pump replacement and wetwell repairs), any runoff from earth disturbing activities will be contained by using silt fences so that impacts to the surrounding waters are minimized. During construction activities to re-route the existing sewer line at North Lagoon, extra caution will be taken to ensure that runoff does not enter the water when the existing sewer pipe is excavated on land. No in-water work is anticipated at North Lagoon.

3.2.6 WETLANDS

3.2.6.1 EXISTING CONDITIONS

The USACE defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Coastal wetlands are important to the ecosystem and provide a critical interface between terrestrial and marine habitats. They also provide various functions such as buffering the coastline, capturing sediment, and retaining and transforming nutrients. However, wetlands do have a sediment and nutrient loading threshold which, once crossed, can lead to degradation and loss of the wetland (Bruland, 2008).

The United States Fish and Wildlife Service (USFWS) National Wetland Inventory identifies the project site lying within Estuarine and Marine Deepwater, which is Kāne'ohe Bay. No wetland falls within 2,000 feet of Coconut Island or the Lilipuna Road property (Figure 6). Based on publicly available data, none of the distant wetlands are identified as critical habitats for any threatened or endangered species.

3.2.6.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to wetlands would result from the No Action Alternative. Loss or destruction of existing wetlands resources is not anticipated as no construction activities would take place under the No Action Alternative.



Preferred Alternative

The Preferred Alternative would not result in loss or destruction of existing wetland resources based on the distance between existing wetlands and the project site. Since the project site is geographically separated from any type of wetland by Kāne'ohe Bay, there is an extremely low potential for on-site project water and/or debris to flow off and reach any distant wetland. Mitigation measures will be taken to prevent any runoff of on-site project water and/or debris from flowing into Kāne'ohe Bay during construction, including silt fences and State/City and County-approved BMPs.

3.2.7 WATER RESOURCES

3.2.7.1 EXISTING CONDITIONS

Kāne'ohe Bay is classified as Class AA marine water. Class AA waters are intended to "remain in their natural, pristine state as is possible with an absolute minimum of pollution or alteration of water quality from any human-caused source or actions. To the extent practicable, the wilderness character of these areas must be protected. No zone of mixing is permitted in this class (DOH, 2012).

The Lilipuna Road property is located within the Ko'olauloa aquifer system (Figure 7). The two aquifers (30603116 (12211)/30603122 (11122)), where the Lilipuna Road property is located, are located in a coastal plain where sedimentary caprock aquifers rest on primary basalt aquifers, which is why they are denoted with a slash between them to indicate the upper and the lower aquifer. The upper aquifer (30603116(12211)) is basal (fresh water in contact with seawater), unconfined, and sedimentary. It is classified as ecologically important, and has a low salinity of 250-1000 milligrams per liter (mg/L) chloride (CI⁻). This aquifer is irreplaceable with a high vulnerability to contamination. The lower aquifer (30603122 (11122)) is classified as a basal, confined (aquifer is bounded by impermeable or poorly permeable formations; top of the saturated aquifer is below the surface of the groundwater), and dike aquifer. It has the potential for use as drinking water (utility), with a salinity of less than 250 mg/L CI⁻. This aquifer is replaceable with a moderate vulnerability to contamination (Mink and Lau, 1990).

The aquifer (30603212 (11111)) located inland of the Lilipuna Road property is categorized as a high level (fresh water not in contact with seawater), unconfined (the water table is the upper surface of the saturated aquifer), dike (aquifers in dike compartments) aquifer system. This aquifer is currently used as drinking water (utility) with a salinity of less than 250 mg/L Cl⁻. It is an irreplaceable aquifer with high vulnerability to contamination. Coconut Island is not located within any aquifer sector (Mink and Lau, 1990).









KĀNE'OHE, O'AHU, HAWAI'I



3.2.7.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative may potentially result in negative impacts to Kāne'ohe Bay. Due to its age, the sewer force main has a potential to fail if not replaced in the near future. A sewer spill would have a detrimental impact on the water quality of Kāne'ohe Bay. In addition, without the re-routing of the existing gravity sewer line, there is a potential that the portions of the sewer line where they cross over the water surface of North Lagoon may fail in the future due to corrosion and negatively impact the lagoon water quality.

Preferred Alternative

A potential impact under the Preferred Alternative is the release of drilling mud into Kāne'ohe Bay during the HDD installation. Drilling mud is pumped into the void left by the drill head to seal and stabilize the sides of the borehole, cool and lubricate the drill bit and shaft, and carry cuttings out of the hole. The mud is a mixture of water and bentonite, which is a natural occurring clay. The release of mud occurs when layers of loose gravel or fractured rock are encountered while the drilling mud fills the hole. The loss of drilling mud and drilling pressure is an indication that there is a leak. Prevention of drilling mud seepage will be a major consideration in the design. Geotechnical borings will be taken along the along the proposed alignment to profile the type of soil and rock to be encountered and establish the burial depth and bentonite mixture to stabilize the borehole. During construction, the Contractor will be required to continuously monitor for any inadvertent release of mud into Kane'ohe Bay. Monitoring procedures will include, but not be limited to: 1) continuous visual inspection along the drill path, 2) monitoring drilling mud pressure gauges and return flows to the surface pits, and 3) monitoring of drill status information regarding drilling conditions. Sediment barriers such as silt screens and sand bags will be provided around the inlet and exit pits to protect the neighboring sites and Kaneohe Bay from the potential impacts from runoff. With the implementation of these mitigation measures, no significant impacts to water resources are anticipated under the Preferred Alternative.

3.2.8 HAZARDOUS AND TOXIC MATERIALS CONSIDERATIONS

3.2.8.1 EXISTING CONDITIONS

The FEIS prepared for the LRDP (Group 70 International, 2004) describes in detail the hazardous materials storage and waste disposal history of HIMB. The FEIS indicates that some hazardous waste material is generated from the experimentation and operations conducted at Coconut Island. These items primarily include cleaning agents, materials required for the island's research purposes, and waste products from experimentations. Hazardous waste generated on the island is transported and disposed of off-island at certified sites by a commercially licensed and certified hazardous waste vendor, which has been approved by UH. The FEIS also identified that two Underground Storage Tanks (USTs) are present at Coconut Island, but are permanently out of use. A previous petroleum release from one UST was



identified and reported to the DOH (Release I.D. #950122). This release, however was satisfactorily addressed and received a "no further action" letter dated May 10, 2002.

3.2.8.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative would not result in any changes to the project site. Therefore, no significant impacts are expected from the No Action Alternative.

Preferred Alternative

The Preferred Alternative would not result in any significant impacts to the project site from hazardous or toxic materials. Generation of any hazardous or toxic material as a result of the Preferred Alternative is not expected. Construction activities will temporarily increase traffic flow and therefore, increase the potential for pollution from petroleum products from vehicular traffic as well as from large equipment use. Mitigation measures include proper maintenance and proper use of all equipment during construction. Additionally, State approved BMPs will be used to reduce any potential negative impacts from equipment and vehicle use. This includes use of oil absorbent pads under equipment requiring maintenance and use of petroleum products. With the implementation of mitigation measures, no significant impacts to the project site from hazardous or toxic materials are expected.

3.2.9 CLIMATE AND AIR QUALITY

3.2.9.1 EXISTING CONDITIONS

The prevailing winds on O'ahu (known as trade winds) are from the east-northeast, with a mean wind speed of 10.6 miles per hour. The trade winds prevail approximately 9 months of the year, from February to November. During the winter months, winds tend to be less predictable, with longer periods of light and variable winds, and occurrences of strong southerly or "Kona" winds associated with weather fronts and storms. The average annual temperature in Kāne'ohe ranges from 68.8 to 79.8 degrees Fahrenheit (°F) with an annual average total precipitation of 76.03 inches. The wettest months of the year are during November through February (WRCC, 2002).

Based on the 2009 air quality data collected at the Waimanalo station, the closest air monitoring station to Coconut Island, PM_{10} (i.e., particulate matter with a diameter of ten micrometers or less) concentrations in the region are well below the National Ambient Air Quality Standards (NAAQS) set by EPA (World Media Group, 2013). Major sources of PM_{10} include smoke, soot, dust, salt, acids, and metals from industrial and agricultural activities, motor vehicles, power plants, fires, and windblown dust. When inhaled, these particles can potentially cause respiratory health problems. The main source of air pollutants if any, in the vicinity of Coconut Island, is most likely emissions from aircraft operations at MCBH. However, there are no known significant sources of air pollutants within the project area.



3.2.9.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to air quality would result from the No Action Alternative as the existing project site conditions would remain the same. No change to the climate or air quality is expected from the No Action Alternative.

Preferred Alternative

The Preferred Alternative would not have a significant impact on air quality. Dust may be generated during construction activities. Dust abatement measures during construction activities will be implemented to include watering of roads and project sites if necessary. A slight increase in vehicular traffic due to construction is anticipated. However, this would be temporary, and short-term impacts from exhaust emissions from construction vehicles are anticipated to be minimal. Overall, potential impacts to air quality resulting from short-term changes are minimal and not significant. Mitigation measures for the proposed project will comply with the DOH Administrative Rules, Title 11, Chapter 60-11.1 "Air Pollution Control." These measures include watering the project site during construction activities.

3.2.10 NOISE

3.2.10.1 EXISTING CONDITIONS

Noise impacts from construction-related activities are regulated under the HAR, DOH, Title 11, Chapter 46, Community Noise Control. The project site is zoned as P-1 Restricted and R-10 Residential; and as such falls into Class A under the DOH regulations, with a maximum daytime permissible sound level of 55 decibels (dBA) (7:00 a.m. to 10:00 p.m.) and 45 dBA at night (10:00 p.m. to 7:00 a.m.) (DOH, 1996). Noise levels exceeding the maximum permissible sound levels for more than ten percent of the time within any twenty minute period will require a permit or variance issued under sections HAR Title 11, Chapter 46.

Noise generated within the project area is primarily attributable to the shuttle boat service between Lilipuna Pier and Coconut Island as well as external noise generated from machinery use from research activities on the island. In addition, over flights from MCBH are major off-island noise sources. Coconut Island is in the flight path of aircraft that take off and land on the base aviation facilities.

3.2.10.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to noise are expected to occur under the No Action Alternative.



Preferred Alternative

In general, noise due to construction equipment is between 70-100 dBA (FHWA, 2011); with earth-moving equipment having the loudest impacts. Noise disturbances to the surrounding area may occur during the construction period. BMPs, such as mufflers and noise barriers, and proper work practices would be employed to adhere to DOH regulations. If noise impacts are expected to exceed the maximum permissible sound levels for Class A, a noise permit may be obtained from DOH, and sound barriers may be required. Significant impacts to noise as a result of this project would mainly be due to short-term construction activities. With mitigation measures implemented, noise impacts from the Preferred Alternative would be reduced to less than significant.

3.3 SOCIAL ENVIRONMENT

3.3.1 LAND USE CONSIDERATIONS AND ZONING

3.3.1.1 EXISTING CONDITIONS

The project area includes five parcels of land totaling approximately 30.2 acres. The two TMK parcels (3)4-6-001:001 and 051 that comprise Coconut Island are designated as urban according to the State of Hawai'i Land Use Commission (LUC) district classifications (Figure 8). The county zoning designation of these two parcels is P-1, restricted preservation (Figure 9). The three TMK parcels (3)4-6-001:015, 016, and 017 that make up the Lilipuna Road property as well as the land parcels that surround there parcels are designated as Urban by the State LUC district classification and as R-10, residential by the City and County zoning designation (Figure 8 and Figure 9). The project area is outside of the Agricultural Lands of Importance to the State of Hawai'i (ALISH) designation (Figure 10). The land parcel information of the project area is summarized in Table 3-1.

	Tax Map Key (TMK) Number	Parcel Area (acres)	State Land Use District	City and County Zoning Designation	Fee Owner	Lessee
Coconut Island	(3)4-6-001:001	12.5	Conservation	P-1, Restricted Preservation	University of Hawaiʻi Foundation	University of Hawaiʻi
	(3)4-6-001:051	16.3			State of Hawaiʻi	-
Lilipuna Road Property	(3)4-6-001:015	0.4772	Urban	R-10, Residential	University of Hawaiʻi Foundation	University of Hawaiʻi
	(3)4-6-001:016	0.4914				
	(3)4-6-001:017	0.4389				













ALISH MAP		
KĀNE'OHE, O'AHU, HAWAI'I		





3.3.1.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative would not have any impacts to land use and zoning. The existing conditions would remain the same and the land use and zoning is expected to remained unchanged

Preferred Alternative

The Preferred Alternative would not have any adverse impacts to the existing land uses or zoning within and around the project area. Use of Coconut Island as a marine research facility will be enhanced by the proposed improvements to the existing infrastructure on the island. Temporary impacts to the use of the parking lot area are expected during construction activities; however, due to the limited duration of the construction period, impacts are expected to be minimal. None of the proposed work items are expected to permanently alter the current land use within the project area or affect surrounding land uses; therefore, no potential impacts are expected.

3.3.2 HISTORICAL AND ARCHAEOLOGICAL CONSIDERATIONS

3.3.2.1 EXISTING CONDITIONS

The Archaeological Inventory Survey of Coconut Island conducted by Scientific Consultant Services (SCS), Inc. (SCS, 2003), which is included as an appendix to the FEIS prepared for the LRDP of Coconut Island (Group 70 International, 2004), was reviewed to determine whether significant historical and archaeological resources that may be impacted by the Proposed Action exist in the project area. The following provides a summary of the survey results.

3.3.2.2 HISTORIC BACKGROUND

Coconut Island, also known as *Moku O Lo'e*, was part of the He'eia Ahupua'a, and was an integral part of the local and regional fisheries. Because of the lack of a permanent source of freshwater, the island was probably never permanently occupied but was utilized by local fishermen for short-term habitation during exploiting the shallow reef resources of Kāne'ohe Bay. During the Great *Mahele*, the island was designated as Crown land and was included in Land Commission Award (LCA) 10613 (*apana* 1) to Abenera (or Abner) Paki, the father of Bernice Pauahi Bishop. Bernice inherited the island after Pake's death in 1857, and eventually passed it on to her husband upon her death in 1884. The island became part of the Bernice Pauahi Bishop Estate in 1890, which leased the island to various parties. Christian Holmes began leasing the island by the late-1920s or early-1930s, eventually purchasing the island from the Bishop Estate in 1936. Holmes completely transformed the island while he turned it into his private estate and retreat. Following the Japanese invasion in 1941, the island was leased to the U.S. military until it was sold to a group of five mainland businessmen in 1946 after Holmes' death in 1944. Edwin W. Pauley, one of the five businessmen, eventually bought out the other partners and relocated HIMB (at the time known as the Hawai'i Marine Laboratory) to Coconut



Island in 1947. After a succession of land ownership changes from the 1950s through the 1990s, the Edwin W. Pauley Foundation eventually donated the island to its current owner, the University of Hawai'i Foundation.

3.3.2.3 ARCHAEOLOGICAL INVESTIGATIONS

Three archaeological studies have been conducted at Coconut Island (Erkelens, 1996; Klieger and Lebo, 1997; Leidemann, 1997) prior to the inventory survey conducted by SCS. None of these studies found evidence of traditional cultural materials, human remains, or burials; however, they did find a large number of historical features from the island's major construction period during the 1930s. The studies also indicate that there is low probability of finding undisturbed subsurface remains of traditional Hawaiian culture based on the relatively intense construction and remodeling activities that have taken place on the island. All of the reports however do point out the possibility of finding burials on the island.

The objectives of the Archaeological Inventory Survey conducted by SCS in 2003 were to: (1) provide additional documentation and significance assessment for the Main House and Retreat House both originally built in the 1930s, (2) test (excavate) for evidence of possible burials purportedly relocated from other places on the island near the Main House, and (3) test (excavate) for evidence of possible traditional cultural occupation in the northern and northwestern portions of the island.

The results of the 2003 survey found no architecturally significant features, style, or masterful workmanship associated with the Main House and Retreat House, and concluded that no further work beyond the documentation made during the survey was required. Although no evidence of human remains or burials was found in any of the thirteen subsurface test units near the Main House, monitoring by a professional Archaeologist was recommended during any construction activity on the island.

The 2003 inventory survey was the first study to identify an intact subsurface traditional cultural material on Coconut Island. This material was designated State Site No. 50-80-10-6590 and consisted of flaked stone tools, charcoal, shell, and coral located 50 to 70 centimeters (cm) below ground surface in a beach sand sedimentary context in the extreme northern portion of the island. SCS concluded that this is a significant representation of traditional Native Hawaiian culture on Coconut Island and should be protected from future development.

In addition, the Archaeological Monitoring conducted by SCS during the mechanical and manual excavations associated with the island-wide new fire hydrant and water line installation project led to inadvertent identification of ten discrete subsurface features (SCS, 2012). The monitoring was conducted from September 13, 2010 through February 28, 2011. The ten features were consolidated into two archaeological sites: State Site 50-80-10-7204, a single charcoal lens; and State Site 50-80-10-7205, a multi-component site comprised of two distinct cultural layers (SSFE 1 and SSFE 2), one posthole (SSFE 6), a sandy clay lens (SSFE 8), charcoal lens (SSFE 9), and human skeletal remains representing a minimum of four (MNI=4) individuals (SSFE 3, 4, 5, 7) which have been interpreted as *in situ* Traditional-type, pre-Contact interments containing individuals of Native Hawaiian ancestry. With the permission of the landowners (UH and the



UH Foundation), the four sets of human skeletal remains were preserved in place for perpetuity (SCS, 2011). Based on discussions with the State Historic Preservation Division (SHPD), a 37 square foot burial preserve with a low walled concrete cap and concreted buffer zone was established for State Site 50-80-10-7205 located along the east side of the main access road on Coconut Island. Protective buffers surrounding the Site (5 feet north, east, and south sides adjacent to the road corridor, and 3 feet on the west side) has been established, forbidding any type of ground surface disturbance except for maintenance of the naturally occurring short grasses or sedges within these areas. Furthermore, archaeological monitoring during all future improvements involving subsurface excavation at Coconut Island was recommended by SCS.

3.3.2.4 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No potential impacts are associated with the No Action Alternative as no change to the current condition of project area would occur. There would be no loss or destruction of historic or archaeological resources and no infringement of State law.

Preferred Alternative

The re-routing of the existing gravity sewer line to be conducted around North Lagoon will not involve any work within State Site No. 50-80-10-6590 which is located immediately south of North Lagoon. According to the FEIS prepared for the Coconut Island LRDP (Group 70 International, 2004), the State Site is set aside as "open space" not to be developed, therefore no immediate danger of the site being destroyed is anticipated. Prior to trenching activities at North Lagoon, location of the State Site will be confirmed and marked to ensure that there are no impacts to the site. No impacts to State Site 50-80-10-7204 and State site 50-80-10-7205 are anticipated under the Preferred Alternative.

As recommended, archaeological monitoring will be conducted during all trenching and ground disturbing activities on Coconut Island proposed under the Preferred Alternative. If human osteological remains or a potential archaeological site are uncovered during construction, site work would cease and SHPD would be contacted in compliance with HRS Section 6E. Processes outlined in existing State regulations, specifically in HAR Title 13, Chapter 300 (Section 33 and Section 40) would be employed following discovery. These mitigation measures would ensure no loss or destruction of historic and archaeological resources, avoiding adverse impacts to potential sites, and ensuring compliance with State laws and regulations. These mitigation measures would reduce any potential impacts associated with the Preferred Alternative to a level of insignificance.



3.3.3 CULTURAL IMPACT ASSESSMENT (CIA) – HRS CHAPTER 343

3.3.3.1 EXISTING CONDITIONS

In order to assess the presence of significant cultural resources within the project area, the Cultural Impact Assessment (CIA) prepared in 2003 (Group 70 International, 2003), included as an appendix to the FEIS prepared for the LRDP of Coconut Island (Group 70 International, 2004), was reviewed. The following provides a summary of the assessment.

3.3.3.2 CULTURAL BACKGROUND OF PROJECT AREA

The project area is situated within the ahupua'a of He'eia within the mokuoloko (interior district) of Ko'olaupoko. Ko'olaupoko is one of the six interior land districts of O'ahu. Due to its vast abundance of natural resources, the regions of He'eia and Kāne'ohe were a preferential location for royal residence as early as the Voyaging Period (1000-1180 A.D.). Numerous native oral traditions and foreign accounts illustrate that the He'eia Ahupua'a was part of a larger and significant political and population center sustained by a variety of wetland agricultural practices and aquacultural activities.

With an extensive supply of freshwater stemming from several major tributary systems whose headwaters lie in the upper mountain regions of the Ko'olau Range allowed the land use patterns of the areas as a primary agrarian center. Historical accounts document that the He'eia Ahupua'a had been extensively cultivated in taro production from the pre-contact period until the early 1930s. Additionally, from Kualoa to Mōkapu, which includes the project area, over 23 fishponds were identified in the 1930s during an archaeological survey. He'eia fishpond located just southwest of the project area, with its wall length of 5,000 feet, is considered the longest wall of any fishpond in Hawai'i and encircles an area of approximately 88 acres.

As a result of a decrease in native population, unused terraced irrigation fields that were once utilized for taro production were transformed into rice fields with the influx of Chinese and Japanese immigrants. By the late 1860s, a majority of the land in the He'eia Ahupua'a were utilized for sugarcane production that was emerging in the area. The sugarcane era was short lived however, with the emergence of other viable agricultural industries.

As for Coconut Island, its history was centered primarily around fishing activities in the area until Christian Holmes made major alterations to the island for it to serve as an area of rest and relaxation for both private and governmental interests. Latter owners of the island Edwin W. Pauley and the other members of the Moku O Lo'e Corporation's vision to create a marine laboratory on the island recaptured the island's traditional role as a center of learning and the sustainable uses of the ocean resources.

Recorded oral testimonies suggest that there were at least four individuals who were buried on Coconut Island. Two possible burial sites were identified and investigated during two archaeological studies (Leidamann, 1997; SCS 2003). No discovery of human remains or subsurface burial remains were reported during these investigations; however, as discussed in


Section 3.2.2, during the Archaeological Monitoring conducted by SCS during the island-wide new fire hydrant and water line installation project human skeletal remains representing at least four individuals were inadvertently discovered. SCS recommended archaeological monitoring during all future excavation activities on island.

3.3.3.3 COMMUNITY CONTACT FINDINGS

As part of the effort in preparing the CIA in 2003, various agencies, organizations, community members, and cultural/lineal descendants with ties to He'eia were consulted to identify individuals that may have expertise/knowledge of the cultural practices and resources within the project area and the surrounding area. A summary of the organizations and individuals contacted during the course of the 2003 CIA as well as an informal format of the questions are included as an appendix to the CIA. As part of the preparation of this draft EA, pre-assessment letters that include the scope of this project were sent out to community members and organization that may have concerns over the project's impact to the cultural resources within the area. Availability of the draft EA will also be sent to these individuals and organizations during the 30-day public review period so that they may provide input.

3.3.3.4 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts to cultural resources are anticipated under the No Action Alternative. No change to existing conditions is expected.

Preferred Alternative

No significant impacts are expected from the proposed activities of the Preferred Alternative. As indicated earlier in Section 3.2.2, archaeological monitoring will be conducted during trenching and ground disturbing activities on Coconut Island, and although unlikely, if human osteological remains or any potential culturally significant features are accidentally unearthed during construction, site work would cease and the SHPD would be contacted in compliance with HRS Section 6 and processes outlined in existing State regulations, specifically in HAR Title 13, Chapter 300 (Section 33 and Section 40) would be employed following discovery.

3.3.4 CIRCULATION AND TRAFFIC

3.3.4.1 EXISTING CONDITIONS

The Lilipuna Road property is located approximately at the mid-point of the Lilipuna Road loop and can be accessed either from the intersection of Kamehameha Highway and Kahuhipa Street or the intersection of Kamehameha Highway and Haiku Road. Lilipuna Road is used primarily by the residents in the area to access homes and by HIMB students and faculty to access Coconut Island. Traffic is usually light on Lilupuna Road unless there is an accident or construction on Kamehameha Highway that causes Lilipuna Road to be used as a bypass route. There is a gated



driveway on the Lilipuna Road property that curves and slopes down to the parking lot and Lilipuna Pier. The parking lot located at the Lilipuna Road property is at its maximum capacity with marked spaces reserved for students and faculty with limited space available for visitors. Tandem parking is used to create more space and some vehicles are parked on the unmarked curb of the driveway that leads down to the parking lot. Guests often use the Windward Mall second story parking lot as a parking area and catch a shuttle bus to Coconut Island. Traffic on Coconut Island is very limited with only a number of vehicles used on the island.

3.3.4.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No significant impacts are expected to occur as a result of the No Action Alternative since no traffic changes are expected to occur.

Preferred Alternative

Temporary impacts to the existing traffic conditions are anticipated during construction activities on Lilipuna Road as well as during transportation of construction material, equipment, and personnel via Lilipuna Road to the Lilipuna Road property. Impacts would be controlled with mitigation measures including directing traffic during construction on Lilipuna Road, avoiding peak traffic times, and informing the general public about the construction activity schedule before the project breaks ground. Impacts are anticipated to be minimal however, since traffic on Lilipuna Road is limited and construction activities on the road are only expected to take several weeks. Necessary traffic controls and precautions to maintain safety within the area will be provided by the contractor during construction activities.

Equipment and personnel to be brought onto the island would be very limited and should not have significant impacts to the existing conditions of the shuttle boat service or traffic on the island. Since the existing parking lot at the Lilipuna Road property is at its maximum capacity, an off-site parking location will be found for the construction workers who will be shuttled to the site. No long-term impacts are anticipated as a result of the Preferred Alternative.

3.3.5 SOCIAL FACTORS AND COMMUNITY IDENTITY

3.3.5.1 EXISTING CONDITIONS

According to the 2010 census, the population of O'ahu is approximately 953,207 residents, which is approximately 8.8 percent more residents from the year 2000 (U.S. Census Bureau, 2010). The State Senate District #24, which constitutes the project area, includes Kāne'ohe, Kāne'ohe Marine Corps Air Base, Kailua, and Enchanted Lakes. Table 3-2 shows a comparison of population by age groups between the island of O'ahu and the Project Area. The project area had a population of 51,259 in the 2010 Census, which is approximately 5.3 percent of the total population of O'ahu. Persons age 18 years and over account for 742,707 of the population of O'ahu, or 77.9 percent, while this age group makes up about 79 percent of the project area



population. O'ahu's 65 years and older population is approximately 138,490 or 14 percent of the island's population, while this age group consists of 7,910 or 15 percent of the project area population.

The City and County of Honolulu General Plan sets forth three objectives regarding population including 1) "to control population growth to the extent possible to avoid social, economic, and environmental disruptions;" 2) "to plan for anticipated future population growth;" and 3) "to maintain a pattern of population distribution that will allow people to live and work in harmony." The island of O'ahu is divided into eight regions, for which development or sustainable communities plans have been prepared for individually. This project falls within the City and County of Honolulu's Ko'olaupoko District. According to the Ko'olaupoko Sustainable Communities Plan, the vision for this region regarding population is to remain relatively stable. This community's goals are "oriented toward maintaining and enhancing the region's ability to sustain its unique character and lifestyle (City and County of Honolulu, 2000)."

The City and County of Honolulu's racial distribution is such that individuals with one race are 20.8 percent White, 2 percent Black or African American, 0.3 percent American Indian and Alaska Native, 43.9 percent Asian, 9.5 percent Native Hawaiian and other Pacific Islander, and 0.11 percent of some other race. Honolulu County's population consists of 22.3 percent with two or more races. 43.9 percent is Asian (race alone), 43.9 percent is either full or part Asian, and 36.8 percent is either full or part White.

Age Group	Honolulu County (Oʻahu)	Senate District #24 (Project Area)
Total Persons	953,207	51,259
Under 5	61,261	3,450
5 to 9	57,818	2,993
10 to 14	56,147	2,614
15 to 19	60,344	3,438
16 years and over	766,256	41,663
18 years and over	742,707	40,494
21 years and over	98,273	37,537
62 years and over	259,742	9,494
65 years and over	138,490	7,910
85 years and over	22,360	1,202

Table 3-2: Age Groups

Reference: U.S. Census Bureau, 2010

3.3.5.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

No impacts to the existing population distribution, levels or racial distribution are expected to result under the No Action Alternative. No changes to the existing conditions are expected.

Preferred Alternative

The Preferred Alternative would not impact population levels or distribution, nor ethnic makeup of the project area. The Preferred Alternative would continue to beneficially impact the project area in accordance with the Ko'olaupoko Sustainable Communities Plan in that it would enhance the region's unique character of housing HIMB, a world class research facility. The Proposed Action will not only maintain, but will improve the conditions and capacities of HIMB as an educational research facility, which is in line with the visions laid out in the Ko'olaupoko Sustainable Communities Plan. No adverse impacts to social factors or community identity are anticipated under the Preferred Alternative.

3.3.6 ECONOMIC CONSIDERATIONS

3.3.6.1 EXISTING CONDITIONS

The median household annual income for Honolulu County in 2012 was \$71,404, the highest among counties in the state. This is 7.7 percent higher than the mean household income for the State of Hawai'i, at \$66,259 (U.S. Census Bureau, 2012).

Kāne'ohe's economy is composed of a wide range of business sectors including MCBH, Windward Community College, government services, agriculture, Kualoa Ranch, Windward Mall, Windward City Shopping Center, and many commercial activities along Kamehameha Highway. Tourism activities such as water sport equipment rentals and charter boats in Kāne'ohe Bay are also an integral part of Kāne'ohe's economy.

The current total faculty and staff population at Coconut Island is approximately 200. The annual operating budget for Coconut Island is made up of budget appropriation from the UH's general fund pool and single and multi-year program funds from grants for scientific research. The 2013 HIMB's budget is approximately 14.1 million dollars [\$3.66M (Operating Budget); \$10.4M (Program Grants)].

3.3.6.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

Adverse impacts are anticipated as a result of the No Action scenario. If the aging infrastructure systems are not rehabilitated and the telecommunication lines not upgraded to maintain real time communications with the UH and research facilities worldwide, the educational and economic viability of HIMB Coconut Island as a world class research facility would be threatened. No



adverse impacts to the area's household income levels are expected to result from the No Action Alternative.

Preferred Alternative

Short-term beneficial impacts resulting from the Preferred Alternative include temporary construction jobs during the construction phase of the project. Employment associated with both construction and operations falls into three broad types:

- Direct jobs are immediately involved with construction of a project or with its operations. Direct jobs are not necessarily on-site: construction supports construction company personnel in offices and base yards, as well as on site.
- Indirect jobs are created as businesses directly involved with a project purchase goods and services in the local economy.
- Induced jobs are created as direct and indirect workers spend their income for goods and services.

Significant long-term beneficial economic impacts to the UH, the community, and the State in terms of continued research funding, are anticipated from the Preferred Alternative with the rehabilitation of Coconut Island's infrastructure systems necessary to sustain and facilitate the physical operations of HIMB as a world class marine education and research facility. Visiting researchers will continue to come to HIMB and more will visit other tenant organizations on the island. Additionally, by preventing a possible sewage spill, the Preferred Alternative is expected to have beneficial economic impacts by maintaining tourism activities in Kāne'ohe Bay.

3.3.7 PUBLIC AND RECREATIONAL FACILITIES

3.3.7.1 EXISTING CONDITIONS

The Kāne'ohe police station is located on Waikalua Road approximately 1.6 miles from the project area. The Kāne'ohe Police Department is a part of the District 4 Patrol District, the largest of the Honolulu Police Department. The nearest fire station is located at on Kamehameha Highway, also approximately 1.6 miles from the project area.

Castle Medical Center is located on Ulukahiki Street in Kailua, approximately 6.6 miles from the project area. Other health care services within the surrounding areas include a psychiatric hospital, elderly home care, dental care, pediatric care, and medical equipment services.

There are multiple Department of Parks and Recreation facilities located in Kāne'ohe. The Kāne'ohe Community Park is located on Keaahala Road, approximately 1.6 miles from the project area. The Kāne'ohe Community and Senior Center is located on Puohala Street, approximately 2.4 miles from the projet area. Finally, the Kāne'ohe District Park is located on Keaahala Road, approximately 2.2 miles from the project area. The Kāne'ohe District Park is located on keaahala Road, approximately 2.2 miles from the project area. The Kāne'ohe District Park provides outdoor tennis courts, baseball diamonds, basketball courts, an indoor gym and a swimming pool.



Although the primary function of Coconut Island is for the purposes of research and education, access for public recreational use is provided in designated areas that are not situated near ongoing research activities. The main public access point on Coconut Island is Maile Point located on the southwestern corner of the island. In addition, public access is allowed at the sandy beach located on the eastern side of the island.

3.3.7.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative is expected to have negative impacts to HIMB as a public research and educational facility. The existing infrastructure systems and utilities at HIMB will continue to be degraded under the No Action Alternative, which may lead to future failure of utilities servicing the island. No change to public or recreational facilities in the surrounding area is expected as a result of the No Action Alternative.

Preferred Alternative

The Preferred Alternative is expected to have beneficial impacts to HIMB as a public research and educational facility. The Preferred Alternative would provide HIMB with the much needed replacement/upgrades of the existing utilities. This would result in great technological improvements to the island's infrastructure and utilities, allowing for the continued use of the island as one of the most renowned marine research facilities in the world. The Preferred Alternative does not involve work at Maile Point nor at the sandy beach located on the eastern side of the island which are the public access points for Coconut Island; therefore, public access to island is not expected to be impacted. In addition, the Preferred Alternative is not anticipated to have any significant impacts to the public or recreational facilities in the vicinity of the project area since it is not expected to create a significant increase in the number of users of these facilities.

3.3.8 VISUAL AND AESTHETIC RESOURCES

3.3.8.1 EXISTING CONDITIONS

The predominant views of Coconut Island are of its thick vegetation and systems of spits and piers. Several HIMB facilities are visible depending on the direction of viewpoints facing the island. Several structures including the Lighthouse Pier, a one story office and laboratory space, the old boathouse, and some housing units are visible from Lilipuna Road. The view of the island is most visible to recreational boat users in Kāne'ohe Bay. Scenic views from the island include residential houses along the coastline of Kāne'ohe Bay and the Ko'olau Range in the background.



3.3.8.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative may potentially have increasing negative impacts on the visual resources and aesthetics in or around the project area. Lighthouse Pier, the primary arrival area to Coconut Island, is in complete disrepair and is no longer in use due to safety concerns. The concrete pilings have deteriorated and the pier's deck appears to be disconnecting from the lighthouse. In addition, portions of the deck are cracked and sagging. If rehabilitation of the pier is not conducted in the near future, the appearance of the pier would have increasingly negative impacts to the aesthetic value of HIMB.

Preferred Alternative

No adverse impacts to the visual and aesthetics resources in the project area are expected under the Preferred Alternative. Short-term impacts may include the presence of construction vehicles and equipment that will be visible for a limited amount of time during the construction period. These impacts are expected to be minimal, and mitigation measures including maintaining an organized and clean construction site will ensure the visual integrity of the project area.

Long-term beneficial impacts are expected under the Preferred Alternative. Lighthouse Pier is the primary arrival point on Coconut Island, making it the first impression of the island to visitors. Rehabilitation of the pier will provide a much improved impression of the island and benefit the continued and future use of the island as a facilitator of marine researchers from around the world.

3.3.9 INFRASTRUCTURE SYSTEMS AND UTILITIES

3.3.9.1 EXISTING CONDITIONS

Water, sewer, electric, and communication are the existing utilities providing service to Coconut Island. The existing 4-inch cast iron sewer force main was installed on the island in the late 1970s. The pump station is located on the east side of the island and continues underground to the shuttle boat landing at the south-west end of the island. The force main runs along the bottom of Kāne'ohe Bay to Lilipuna Pier, where it surfaces and is mounted under the walkway. At the other end of the pier, the force main runs underground along the shoreline and discharges into a manhole located within a sewer easement on private property on Lilipuna Road. The portion of the force main that runs under Lilipuna Pier was replaced by a 4-inch high density polyethylene (HDPE) pipe in 1990.

In September 2011, the employees of HIMB discovered a leak from the sewer force main in the middle of the channel between Lilipuna Pier and Coconut Island. This was noticed by air bubbles along the pipe in the water. The break was 12 inches long by 2 inches wide, and a 36-inch stainless steel pipe clamp was installed to secure the leak. Following installation of the clamp, a dye test was performed and no further leaks were detected. It is estimated that approximately 50 gallons of liquid was spilled during the leak. The City and County of



Honolulu, Division of Collection System Maintenance system and the DOH Wastewater Branch was notified.

The communication services to the island are currently provided by Hawaiian Telecom. These lines are also submerged along the bottom of Kāne'ohe Bay. The island's water was initially provided by a 4-inch cast iron line installed in the 1930s. This line was replaced in 1990 by a 6-inch HDPE pipe and connected to an 8-inch Board of Water Supply (BWS) water main in the parking lot located at the Lilipuna Road property. The 6-inch line runs below Lilipuna Pier and into Kāne'ohe Bay, where it is anchored on the sea floor, exiting near the Lighthouse Pier on Coconut Island.

Coconut Island receives its electrical services from the Hawaiian Electric Company (HECO). The electrical lines originate at the HECO Kāne'ohe Substation and run overhead along Lilipuna Road. The lines are then submerged into Kāne'ohe Bay and resurface on Coconut Island, where they connect to HECO's switching equipment which feeds into two transformers that distribute the power throughout the island.

3.3.9.2 POTENTIAL IMPACTS AND MITIGATION

No Action Alternative

The No Action Alternative is expected to have long-term adverse impacts to the infrastructure systems and utilities at the project site. As the utilities infrastructure on Coconut Island is significantly outdated, the potential for failure of utilities servicing the island due to aged equipment and outdated technologies is imminent. The utility lines currently run along the bottom of Kāne'ohe Bay, where they are exposed to the elements of the bay and expose their components to the populations and ecosystems within the bay. A small rupture in the sewer line has already occurred. Besides the potential for service failure, a ruptured sewer line would result in potential detrimental impacts to the water quality and ecosystem of Kāne'ohe Bay.

Preferred Alternative

The Preferred Alternative is expected to have significant beneficial impacts to the existing infrastructure system and utilities at Coconut Island. Updated sewer, water, electric, and communication lines through the implementation of the Preferred Alternative will allow HIMB to maintain its use of the on-island facilities, and to have greatly improved high speed data sharing with the world, which in turn will enhance its position as a world class research facility. The Preferred Alternative will not only provide great technological improvements to the island's infrastructure and utilities, which would allow for the continued provision of these utilities to the island but will also eliminate the potential for future breakages and failure of the existing aging utility lines.

3.3.10 SECONDARY AND CUMULATIVE IMPACTS

Cumulative impacts are two or more individual effects which, when considered together, compound or increase the overall impact. Cumulative impacts can arise from the individual



effects of a single action or from the combined effects of past, present, or future actions. Thus, cumulative impacts can result from individually minor but collectively significant actions taken over a period of time. The cumulative impacts of the Proposed Action along with past and reasonably foreseeable future projects proposed within or in the vicinity of the project area were assessed based upon available information.

Future projects that are currently planned at HIMB include installation of photovoltaic (PV) systems. This future project is not expected to create any adverse cumulative impacts to the existing conditions of the project area when implemented in conjunction with the work proposed under the Preferred Alternative. Additionally, there are no known past or present projects that would compound or increase the impacts expected under the Preferred Alternative.



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SECTION 4 RELATIONSHIP TO PLANS, POLICIES, AND CONTROLS

The purpose of this section is to summarize the relationship of the plans and policies to project actions. Additionally, the intent is to revisit these plans and policies to qualify any significant effects from actions proposed in this EA.

4.1 FEDERAL REGULATIONS

Section 10 of the Rivers and Harbors Act of 1899

Section 10 of the Rivers and Harbors Act (33 U.S.C. §401 et seq. and §403) requires authorization from the U.S. Army Corps of Engineers (Army Corps) for the construction of any structure in or over any navigable water of the United States, the excavation/dredging or deposition of material in these water or any obstruction or alteration in a "navigable water" (see below). Structure or work outside the limits defined for navigable waters of the U.S. require a Section 10 permit if the structure or work affects the course, location, condition, or capacity of the water body.

"Navigable waters" of the U.S. are those subject to the ebb and flow of the tide shoreward to the mean high water mark and/or presently used, or have been used in the past, or are susceptible for use to transport interstate or foreign commerce. The term includes coastal and inland waters, lakes, rivers and streams that are navigable, and the territorial seas.

Discussion:

The utility line replacement and Lighthouse Pier rehabilitation proposed under the Preferred Alternative require a Section 10 Permit since these work items will involve work in/over Kāne'ohe Bay. The USACE authorizes activities by issuing individual and general permits. Individual permits include Standard Individual Permits and Letters of Permission, and general permits include Nationwide Permits and Regional General Permits.

Resource Conservation and Recovery Act (RCRA) of 1976

Resource Conservation and Recovery Act (RCRA) gives EPA the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also sets forth a framework for the management of non-hazardous wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. RCRA focuses only on active and future facilities and does not address abandoned or historical sites.

Discussion:

Generation of hazardous waste is not anticipated under the proposed work for the project.



Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly known as Superfund, was enacted by Congress in 1980. This law created a tax on the chemical and petroleum industries and provided broad Federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. CERCLA:

- *established prohibitions and requirements concerning closed and abandoned hazardous waste sites;*
- provided for liability of persons responsible for releases of hazardous waste at these sites; and
- *established a trust fund to provide for cleanup when no responsible party could be identified.*

The law authorizes two kinds of response actions:

- Short-term removals, where actions may be taken to address releases or threatened releases requiring prompt response.
- Long-term remedial response actions, that permanently and significantly reduce the dangers associated with releases or threats of releases of hazardous substances that are serious, but not immediately life threatening. These actions can be conducted only at sites listed on EPA's National Priorities List (NPL).

Discussion:

No hazardous waste sites exist in the project area and generation of hazardous wastes will not occur during project construction.

Native American Graves Protection and Repatriation Act (NAGPRA) of 1990

The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 provides for the protection, inventory, and the proper treatment and where applicable, the repatriation of Native human remains, funerary objects, sacred and cultural objects. The law requires that consultation and potential repatriation efforts should occur with identified lineal descendants or cultural affiliated groups, specifically federally recognized Native American tribes and Native Hawaiian Organizations. The law applies to those ancestral remains and cultural resources that were either excavated and removed from federal lands or retained by institutions receiving federal funding. The Secretary of the Interior of the United States is charged with the responsibility for overseeing national NAGPRA compliance, while a designated staff member of the U.S. Department of the Interior oversees its implementation.



Discussion:

As a public educational institution that participates in federally funded programs, the UH at Mānoa and its affiliates are potentially subject to comply with the procedural guidelines set forth in NAGPRA regulations. Any and all future construction on the island should be monitored by a trained, professional Archaeologist. It is the recommended that in the event of an inadvertent discovery of unidentified surface or subsurface cultural remains, the applicable processes outlined in both NAGPRA and State regulations will be employed. According to the LRDP, a designated area on the pu'u has been selected on the island as a reburial site for the re-internment of any human remains and funerary objects that may be discovered during construction. If required, the procedural and notification components of applicable federal and state law pertaining to the development of a burial treatment plan will be administered.

Endangered Species Act of 1973 and Marine Mammal Protection Act of 1972

The Endangered Species Act of 1973 provides a legal means by which identified ecosystems that are determined to be essential to the sustainability of an endangered or threatened species can be conserved. Under this Act, the USFWS in the Department of the Interior is responsible for all terrestrial and freshwater species, as well as migratory birds. Likewise, the National Marine Fisheries Service in the Department of Commerce is responsible for the protection of marine, estuarine, and anadromous species.

The Marine Mammal Protection Act (MMPA) of 1972 (as amended in 1994) was enacted to protect and manage population stocks of marine mammals that are, or may be, in danger of extinction or depletion as a result of human activity. The MMPA establishes a moratorium, with certain exceptions, on the taking of marine mammals and/or their products into the U.S.

Discussion:

No threatened or endangered plant species were identified on the island. Further, while no endangered species were noted during the field investigations, various migratory birds including the endangered Ae'o (*Himantopus mexicanus knudseni*) have been observed by HIMB personnel on the island. It is also probable that the pueo (*Asio flammeus*) and the koloa (*Anas wyvilliana*) utilize portions of the island on occasion for hunting or nesting. Additionally, Hawaiian monk seals (*Monachus schauinsland*) and green sea turtles (*Chelonia mydas*) have been sighted along the nearshore waters of the island. It is anticipated that construction activities for the Proposed Action will not impact the habitat patterns of any endangered species. If observed during construction, treatment of marine mammals will comply with all necessary requirements of the law.

Coastal Zone Management Act (CZM) of 1972

In 1972, the Federal government enacted the Coastal Zone Management Act (CZM) to protect, preserve, develop, restore, and enhance the resources of the nation's coastal zone for current and future generations. This process is achieved by providing assistance to coastal states, including Hawai'i, to develop and manage Coastal Management Programs. Enforcement authority for the Federal Coastal Management Program (Public



Law 104-150, as amended in 1996) has been delegated to the State of Hawai'i (HRS, Chapter 205A).

Discussion:

Through the CZM Program promulgated by Chapter 205A, HRS, each County is required to establish special management areas and shoreline setbacks within which permits are required for development. Discussion of the permits required under the CZM is included in Section 4.5.

4.2 STATE LAND USE PLANS AND POLICIES

4.2.1 STATE OF HAWAI'I

Chapter 343 HRS

Compliance with Chapter 343, HRS is required as previously described in Section 2.1 Scope and Authority.

§343-5 Applicability and Requirements. (a) Except as otherwise provided, an environmental assessment shall be required for actions that:

Propose the use of the state or county lands or the use of state or county funds, other than funds to be used for feasibility or planning studies for possible future programs or projects that the agency has not approved, adopted, or funded, or funds to be used for the acquisition of unimproved real property; provided that the agency shall consider environmental factors and available alternatives in its feasibility or planning studies; provided further that an environmental assessment for proposed uses under section [205-2(d)(10)] or [205-4.5(a)(13)] shall only be required pursuant to section 205-5(b).

Discussion:

The State of Hawai'i and the UH Foundation are titled to the land within the project area; therefore, the environmental assessment under Chapter 343 HRS is required because the project entails the use of State lands.

Hawai'i State Plan Chapter 226, HRS

The Hawai'i State Plan, Chapter 226, HRS was developed as a guideline for the future growth of the State of Hawai'i. The State Plan identifies goals, objectives, policies, and priorities for the development and growth of the State. It provides a basis for prioritizing and allocating the limited resources such as public funds, services, human resources, land, energy, and water. The State Plan establishes a system for the formulation and program coordination of State and City and County plans, policies, programs, projects, and regulatory activities. The State Plan also facilitates the integration of all major State and City and County activities. The proposed project would be in conformance with the State Plan's objectives and policies for socio-cultural advancement with regard to education of the Hawaiian people. Specifically, the proposed project will fulfill the following objectives of the State Plan:



- Ensure the provision of adequate and accessible educational services and facilities that are designed to meet individual and community needs.
- Provide higher educational opportunities that enable Hawai'i's people to adapt to changing employment demands.
- Emphasize quality educational programs in Hawai'i's institutions to promote academic excellence.
- Support research programs and activities that enhance the education programs of the State.

A) Economy: General

The objectives for planning the State's economy include increasing and diversifying employment opportunities to provide a better economic quality of life for Hawai'i's people. It is also the objective of the State to create a diversified economic base that is not overly dependent on a few industries, and includes the development and expansion of industries on the neighbor islands. It is the policy of the State to:

- Promote Hawai'i as an attractive market for environmentally and socially sound investment activities that benefit Hawai'i's people.
- Seek broader outlets for new or expanded Hawai'i business investments.
- Expand existing markets and penetrate new markets for Hawai'i's products and services (HRS, Chapter 226-6).

Discussion:

The Proposed Action will contribute to a better economic quality of life for Hawai'i's people by preserving the continued use of HIMB as a world class research facility and by providing continued source employment opportunity for the people in Hawai'i.

B) Economy: Potential Growth Activities

It is the objective of the State to increase and diversify Hawai'i's economic base through the development and expansion of potential growth activities. It is the policy of the State to:

- Facilitate investment and employment in economic activities that have the potential for growth such as diversified agriculture, aquaculture, apparel and textile manufacturing, film and television production, and energy and marine-related industries.
- Expand Hawai'i's capacity to attract and service international programs and activities that generate employment for Hawai'i's people.



- Enhance and promote Hawai'i's role as a center for international relations, trade, finance, services, technology, education, culture, and the arts.
- Accelerate research and development of new energy-related industries based upon wind, solar, ocean, and underground resources and solid waste.
- Increase research and the development of ocean-related economic activities such as mining, food production, and scientific research (HRS, Chapter 226-10).

Discussion:

The Proposed Action will allow for the continued integrated mixed uses of HIMB for research, affiliated research, and education, which will avail new opportunities of economic growth in local research and development, accenting the university's achievements and aspirations in marine research on a global and international level.

C) Physical Environment: Land Based, Shoreline, & Marine Resources

It is the objective of the State to make prudent use of Hawai'i's land-based, shoreline, and marine resources as well as to establish effective measures to protect Hawai'i's unique and fragile environmental resources. It is the policy of the State to:

- Ensure compatibility between land-based and water-based activities and natural resources and ecological systems.
- Take into account the physical attributes of areas when planning and designing activities and facilities.
- Manage natural resources and environs to encourage their beneficial and multiple uses without generating costly or irreparable environmental damage.
- Encourage the protection of rare or endangered plant and animal species and habitats native to Hawai'i.
- Pursue compatible relationships among activities, facilities, and natural resources.
- Promote increased accessibility and prudent use of inland and shoreline areas for public recreational, educational, and scientific purposes (HRS, Chapter 226-11).

Discussion:

The Proposed Action is not anticipated to alter the current use or activities in and around the project area. The project is anticipated to promote the use of HIMB as a research and educational facility without generating any costly or irreparable environmental damage.



D) Physical Environment: Scenic, Natural Beauty, & Historic Resources

In protecting and maintaining the natural resources of the State, it is the objective of the State to enhance Hawai'i's scenic assets, natural beauty, and multi-cultural/historical resources. It is the policy of the State to:

- Provide incentives to maintain and enhance historic, cultural, and scenic amenities.
- Promote the preservation of views and vistas to enhance the visual and aesthetic enjoyment of mountains, ocean, scenic landscapes, and other natural features.
- Protect those special areas, structures, and elements that are an integral and functional part of Hawai'i's ethnic and cultural heritage.
- Encourage the design of developments and activities that complement the natural beauty of the islands (HRS, Chapter 226-12).

Discussion:

The Proposed Action will promote the preservation of the natural beauty of Coconut Island by replacing the old utility lines and associated structures. The proposed work items will enhance the visual and aesthetics value of HIMB.

E) Physical Environment: Land, Air, & Water Quality

It is the objective of the State to maintain and improve the quality of Hawai'i's land, air, and water resources as well as to create greater public awareness and appreciation of Hawai'i's environmental resources. It is the policy of the State to:

- Foster educational activities that promote a better understanding of Hawai'i's limited environmental resources.
- Promote effective measures to achieve desired quality in Hawai'i's surface, ground, and coastal waters.
- Foster recognition of the importance and value of the land, air, and water resources to Hawai'i's people, their culture, and visitors (HRS, Chapter 226-13).

Discussion:

The Proposed Action is in line with maintaining and improving Hawai'i's environmental resources, specifically coastal water resources by preventing future failure of the outdated sewer line currently servicing HIMB. Replacement of the utility lines servicing Coconut Island is in line with the recognition of the important of the value of water resources in Hawai'i.



F) Facility Systems: Energy/Telecommunications

It is the objective of the State to achieve dependable, efficient, and economical statewide energy and telecommunications systems capable of supporting the needs of the people and that increases self-sufficiency. It is the policy of the State to:

Support research and development as well as promote the use of renewable energy sources (HRS, Chapter 226-18).

Discussion:

Replacement of the utility lines will achieve the State's objective to provide dependable, efficient, and economical energy and telecommunications systems capable of supporting the needs of the people. Without the replacement of the existing utility lines, there is a possibility of interruption of energy and telecommunications systems that serves Coconut Island.

G) Socio-Cultural Advancement: Education

It is the objective of the State to adequately provide a variety of education opportunities to enable individuals to fulfill their needs, responsibilities, and aspirations. It is the policy of the State to:

- Provide higher educational opportunities that enable Hawai'i's people to adapt to changing employment demands.
- Emphasize quality educational programs in Hawai'i's institutions to promote academic excellence.
- Support research programs and activities that enhance the education programs of the State (HRS, Chapter 226-21).

Discussion:

Through the fortified partnerships with various institutions, HIMB is committed to the continued development of applied research and subsequent educational programs, services, and curriculum. Existing educational programs include the Pauley Summer Program, which provides a high quality research program for faculty and students from around the world. In addition to the undergraduate and graduate students that work and study on the island, over 4,000 school-aged children visit the island on an annual basis. Improved communications capacity will allow faculty at HIMB to enhance their online interaction with students at UH Mānoa and community college campuses by remotely sharing archived and real-time data with students directly. HIMB is also developing a system to offer opportunities for community college students and faculty to remotely operate the state-of-the-art equipment such as the confocal microscope to study live marine organisms via digitally streamed images. Collaborative efforts with organizations such as the Polynesian Voyaging Society (PVS), Paepae o He'eia, Kako'o 'Oiwi, Pacific American Foundation, and Ko'olaupoki Hawaiian Civic Club will continue to create new linkages and applications, such as the development of community education programs that are derived from the efforts of pure research.



H) Socio-Cultural Advancement: Leisure

It is the objective of the State to adequately provide resources to accommodate diverse cultural, artistic, and recreational needs for present and future generations. It is the policy of the State to:

Promote the recreational and educational potential of natural resources having scenic, open space, cultural, historical, geological, or biological values while ensuring that their inherent values are preserved.

Assure the availability of sufficient resources to provide for future cultural, artistic, and recreational needs (HRS, Chapter 226-23).

Discussion:

Although the primary function of Coconut Island is for the purposes of research, access for public recreational use is provided in designated areas that are not situated near on-going research activities. The Proposed Action will preserve the island's use for recreational purposes by preventing potential future failure of the currently aged sewer line and a possible sewer spill in Kāne'ohe Bay, which would have a detrimental impact to the water quality and the recreational use of the bay.

I) Climate Change Adaptation Priority Guidelines

Priority guidelines to prepare the State to address the impacts of climate change, including impacts to the areas of agriculture; conservation lands; coastal and nearshore marine areas; natural and cultural resources; education; energy; higher education; health; historic preservation; water resources; the built environment, such as housing, recreation, transportation; and the economy shall:

(3) Invest in continued monitoring and research of Hawaii's climate and the impacts of climate change on the State.

(5) Encourage the preservation and restoration of natural landscape features, such as coral reefs, beaches and dunes, forests, streams, floodplains, and wetlands, that have the inherent capacity to avoid, minimize, or mitigate the impacts of climate change.

Discussion:

The Proposed Action is in conformance with this guideline since the proposed work items will allow for the continued use of HIMB as a research ground for marine resources, and their roles and impacts on climate change. In addition, during the preparation of this EA, impacts to natural resources that have the inherent capacity to avoid, minimize, or mitigate the impacts of climate change have been reviewed thoroughly, and mitigation measures to avoid impacts to these resources have been identified. The proposed HDD method to be used during the utility lines replacement will encourage the preservation of the coral reef system in Kāne'ohe Bay by placing the new utility lines under the sea floor rather than placing the lines on the bottom of the bay.



State Functional Plan

The 12 State Functional Plans were adopted by the State Legislature in April 1984. These plans were formulated to specify in greater detail the policies, guidelines, and priorities set forth in the Hawai'i State Plan. The 12 functional plans include; Energy, Transportation, Water Resources, Historic Preservation, Health, Education, Housing, Conservation Lands, Higher Education, Agriculture, Recreation, and Tourism. The project is consistent with the policies and objectives of the State Functional Plans. This project provides the needed replacement of existing utility system at Coconut Island to support the ongoing research/educational activities at HIMB.

State of Hawai'i Higher Education Functional Plan (1987 Draft)

The State Higher Education Functional Plan is "intended to serve as a guide to the objectives and policies pursued by the post-secondary education community in meeting its many responsibilities." The following objectives and policies of the Functional Plan are relevant to the implementation of the Proposed Action.

Objective A: Maintain a number and variety of postsecondary education institutions sufficient to provide the diverse range of programs required to satisfy individual and societal needs and interests.

Policy A(2): Focus increased attention on the role higher education plays in supporting the economic development of the State.

Objective B: Attain the highest level of quality, commensurate with its mission and objectives, of each education, research, and public service program offered in Hawai'i by an institution of higher education.

Policy B(2): Maintain and strengthen the position of the UH as a leading national and international research center.

Policy B(3): Identify for program enrichment and emphasis those programs considered important in terms of State needs and emphases, those programs for which special advantages in Hawai'i provide an opportunity for national or international prominence, and those programs which have already achieved such prominence.

Discussion:

The unique opportunity for marine research at Coconut Island was recognized in 1947 when Edwin W. Pauley offered land and surplus buildings to the UH for use as a marine laboratory. In the six decades that have passed since that time, HIMB has become a world leader in tropical marine research. The proposed infrastructure improvements support and enhance the mission of HIMB, and provide the physical and managerial framework to support tenant organizations on the island.



Environmental Review, HRS, Chapter 343

HRS, Chapter 343, defines the State of Hawai'i's environmental review process by which an environmental impact statement must be conducted to identify any potential impacts that could result from a proposed action involving State or county lands or funds.

Discussion:

This document has been prepared to meet Chapter 343 requirements and will be processed through the State Office of Environmental Quality Control.

Historic Preservation, HRS, Chapter 6E

Regulatory statutes related to historic preservation issues are provided in Chapter 6E of the Hawai'i Revised Statutes, which mandates that the SHPD of the Department of Land and Natural Resources (DLNR) must review proposed state projects, which may have an impact upon historic and cultural resources that are located within the project area. Further, Chapter 6E also provides procedural guidelines in the event of an inadvertent discovery of burial sites during project development.

Discussion:

The Proposed Action is not anticipated to have any impacts to the historic and cultural resources within the project area. Ground disturbing activities on the island will be monitored by a trained, professional Archaeologist.

State of Hawai'i Land Use Law

Chapter 205, HRS promulgates the State Land Use Law. This law is intended to preserve, protect, and encourage the development of lands in the State of Hawai'i for uses that are best suited to the public health and welfare of its people. The LUC classifies all land into four districts: Urban, Conservation, Agriculture, and Rural. The project area is designated within the Urban and Conservation District.

4.3 CITY AND COUNTY LAND USE PLANS AND POLICIES

4.3.1 CITY AND COUNTY OF HONOLULU

4.3.1.1 GENERAL PLAN (AMENDED OCTOBER 3, 2002)

The General Plan for the City and County of Honolulu, a requirement of the City Charter, is a written commitment by the City and County government to a future for the Island of O'ahu which it considers desirable and attainable. The Plan is a two-fold document: First, it is a statement of the long-range social, economic, environmental, and design objectives for the general welfare and prosperity of the people of O'ahu. These objectives contain both statements of desirable conditions to be sought over the long run



and statements of desirable conditions which can be achieved within an approximate 20year time horizon. Second, the General Plan is a statement of broad policies which facilitate the attainment of the objectives of the Plan. This section discusses how the Coconut Island LRDP addresses the applicable objectives and policies of the County General Plan.

Economic Activity

Objective: To promote employment opportunities that will enable all the people of O`ahu to attain a decent standard of living.

Policy: Encourage the growth and diversification of O'ahu's economic base.

Objective: To make full use of the economic resources of the sea.

Policy: Encourage the development of aquaculture, open research, and other oceanrelated activities.

Discussion:

The Proposed Action is anticipated to have significant long-term beneficial economic impacts to the UH, the community, and the State in terms of continued research funding with the rehabilitation of Coconut Island's infrastructure systems necessary to sustain and facilitate the physical operations of HIMB as a world class marine education and research facility. Visiting researchers will continue to come to HIMB and more will visit other tenant organizations on the island.

Natural Environment

Objective: To protect and preserve the natural environment.

Policy: Protect the natural environment from damaging levels of air, water, and noise pollution.

Policy: Increase public awareness and appreciation of O'ahu's land, air, and water resources.

Objective: To preserve and enhance the natural monuments and scenic views of O'ahu for the benefit of both residents and visitors.

Policy: Protect O'ahu's scenic views, especially those seen from highly developed and heavily traveled areas.

Policy: Provide opportunities for recreational and educational use and physical contact with O'ahu's natural environment.



Discussion:

The proposed replacement of utility lines servicing HIMB will contribute to the protection and preservation of the natural environment by eliminating the potential for a major sewage spill in Kāne'ohe Bay, which would have a detrimental impact to the water quality and marine resources in the bay. The visual aesthetics of Coconut Island will be significantly enhanced by the rehabilitation of the Lighthouse Pier, which is the first arrival point for visitor to the island.

Energy

Objective: To maintain an adequate, dependable, and economical supply of energy for O'ahu's residents.

Policy: Support programs and projects which contribute to the attainment of energy sufficiency on O'ahu.

Objective: To develop and apply new, locally available energy resources.

Policy: Support and participate in research, development, demonstration, and commercialization programs aimed at producing new, economical, and environmentally sound energy supplies from solar insulation, biomass energy conversion, wind energy conversion, geothermal energy, and ocean thermal energy conversion.

Discussion:

The proposed replacement of utility lines will eliminate the potential for future failure due to its age and provide HIMB with a more efficient and dependable source of energy.

Physical Development and Urban Design

Objective: To create and maintain attractive, meaningful, and stimulating environments throughout O'ahu.

Policy: Encourage distinctive community identities for both new and existing districts and neighborhoods.

Policy: Require new developments in stable, established communities and rural areas to be compatible with the existing communities and areas.

Policy: Preserve and maintain beneficial open space in urbanized areas.

Discussion:

The proposed project is not expected to alter the existing features or characteristics of Coconut Island or the surrounding communities and areas. The proposed rehabilitation of the Lighthouse Pier will not alter the current design or identity of the existing pier. Installation of a new platform and refurbishment of the supporting piles of the currently deteriorating Lighthouse Pier will provide a much improved aesthetic view of the island.



Health and Education

Objective: To provide a wide range of educational opportunities for the people of O'ahu.

Policy: Encourage the provision of informal educational programs for people of all groups.

Policy: Facilitate the appropriate location of learning institutions from the preschool through the university levels.

Objective: To make Honolulu the center of higher education in the Pacific.

Policy: Encourage continuing improvement in the quality of higher education in Hawaii.

Policy: Encourage the development of diverse opportunities in higher education.

Policy: Encourage research institutions to establish branches on O'ahu.

Discussion:

The proposed project will conform to these policies by facilitating HIMB's need to repair and to upgrade the utility systems to sustain its function as a center for marine research, which will in turn will continue to provide higher educational opportunities for the people of O'ahu as well as make Honolulu the center of higher education in the Pacific.

<u>Culture and Recreation</u>

Objective: To protect O'ahu's cultural, historic, architectural, and archaeological resources.

Policy: Identify, and to the extent possible, preserve and restore buildings, sites, and areas of social, cultural, historic, architectural, and archaeological significance.

Objective: To provide a wide range of recreational facilities and services that are readily available to all residents of O'ahu.

Policy: Provide convenient access to all beaches and inland recreation areas.

Discussion:

The proposed project will ensure the continued use of HIMB as a world leading marine research institution. Rehabilitation of the Lighthouse Pier is expected to restore Coconut Island's first impression to visitors. Although the primary function of Coconut Island is for the purposes of research, access for public recreational use is provided in designated areas that are not situated near on-going research activities. The Proposed Action will preserve the island's use for recreational purposes by preventing potential future failure of the currently aged sewer line and a possible sewer spill in Kāne'ohe Bay, which would have a detrimental impact to the water quality and the recreational use of the bay.



4.3.1.2 LAND USE ORDINANCE (LUO)

The purpose of the Land Use Ordinance (LUO) is to regulate land use in a manner that will encourage orderly development in accordance with adopted land use policies, including the County General Plan and development plans. The LUO is also designed to promote and protect the public health, safety and welfare through various actions such as:

Minimizing adverse effects resulting from the inappropriate location, use or design of sites and structures;

Conserving the city's natural, historic and scenic resources and encouraging design which enhances the physical form of the city; and

Assisting the public in identifying and understanding regulations affecting the development and use of land.

The LUO is also intended to provide reasonable development and design standards. These standards are applicable to the location, height, bulk and size of structures, yard areas, off-street parking facilities, and open spaces, and the use of structures and land for agriculture, industry, business, residences or other purposes (Revised Ordinance for the City and County of Honolulu, Chapter 21).

Discussion:

Coconut Island is located within the Restricted Preservation District (P-1) of the City and County of Honolulu Land Use Ordinance. Further, the property at Lilipuna Road is located within the Residential District (R-10). Public facilities such as universities are allowed in R-10 districts.

4.3.2 OTHER RELEVANT PLANS AND POLICIES

4.3.2.1 KOʻOLAUPOKO SUSTAINABLE COMMUNITIES PLAN (MARCH 2010)

The development/sustainable communities plans for each of the eight planning regions of O'ahu are intended to help guide City land use approvals, infrastructure improvements, and private sector investment decisions responding to the specific conditions and community values of each region. "Development Plans" for the two of the eight planning regions, Ewa and the Primary Urban Center, the areas to which major growth in population and economic activity will be directed over the next 20 years and beyond, serve as the policy guides for the development decisions and actions required to support that growth. The remaining six planning regions, including Ko'olaupoko where the proposed project is located, are envisioned to remain relatively stable. The plans for those regions have been titled "Sustainable Communities Plans" and are focused on serving as policy guides for public actions in support of that goal. The vision statement and supporting provisions of the Ko'olaupoko Sustainable Communities Plan are oriented toward maintaining and enhancing the region's ability to sustain its unique character



and lifestyle. The project design and development will comply with the policies, and planning principles and guidelines outlined in the Koʻolaupoko Sustainable Communities Plan.

4.3.2.2 KĀNE'OHE BAY MASTER PLAN

The Kāne'ohe Bay Master Planning Task Force was established by the Legislature in 1990 and charged with developing a comprehensive master plan for Kāne'ohe Bay. The Master Plan identifies resources at risk in this area, including: aquatic life in the bay, the Ko'olaupoko District watersheds of the twelve streams entering the bay, and wetland habitats; water quality; and open space on the bays inner and outer waters. The risks thereby impact resources such as the ecological diversity; sustainable recreational, subsistence and commercial uses; aesthetic value; as well as human health and safety. The Master Plan also identifies parties affected by resources at risk, including:

- residents in the Kāne'ohe Bay watershed;
- recreational users of Kāne'ohe Bay, including residents from all over Oahu, and visitors (e.g., boaters, fishermen, windsurfers, paddlers, divers, beachcombers);
- commercial users of Kāne'ohe Bay (e.g., tour operators, fishermen, renters and vendors of recreational equipment--windsurf boards, kayaks, fishing tackle, SCUBA and snorkeling gear--and instructors—windsurfing and SCUBA) and their customers;
- research scientists (many associated with HIMB).

The Master Plan recognizes many barriers to sustaining the resources of Kāne'ohe Bay, including:

- *runoff and pollution from urban development;*
- *limited (public) access to the bay shore;*
- *deteriorating water and ecological quality in the bay;*
- commercial recreation activities;
- overfishing;
- *safety and public recreation conflicts;*
- *inadequacy of existing mooring areas.*

Discussion:

The proposed work items under this project are consistent with the planning concepts established by the Task Force. The proposed HDD method for the replacement of the utility lines will ensure that the natural resources within Kāne'ohe Bay are preserved. Due to its age, the sewer force main has a potential to fail if not replaced in the near future. The proposed project provides a means of avoiding a potential sewer spill which would have a detrimental impact on the water quality and biological resources of Kāne'ohe Bay.



4.3.3 NECESSARY PERMITS AND APPROVALS

4.3.3.1 SPECIAL MANAGEMENT AREA USE PERMIT (SMP)

As established in Chapter 25 of the ROH, "special controls on development within an area along the shoreline are necessary to avoid permanent loss of valuable resources and foreclosure of management options, and to insure that adequate public access is provided to public owned or used beaches, recreation areas, and natural reserves, by dedication or other means." The proposed project is within the designated special management areas as established in Chapter 25, ROH; therefore, a SMP is required and will be submitted to the City and County of Honolulu Department of Planning and Permitting (DPP) for approval.

4.3.3.2 SHORELINE SETBACK VARIANCE (SSV)

According to Chapter 23, ROH, "it is a primary policy of the city to protect and preserve the natural shoreline, especially sandy beaches; to protect and preserve public pedestrian access laterally along the shoreline and to the sea; and to protect and preserve open space along the shoreline. It is also a secondary policy of the city to reduce hazards to property from coastal floods." The shoreline setback line is established at 40 feet inland from the certified shoreline. The proposed project involves work within the shoreline setback. A SSV will be submitted to DPP for approval.

4.3.3.3 SECTION 401 WATER QUALITY CERTIFICATION

The Federal Clean Water Act and HRS Chapter 342D, along with their supporting rules (HAR Title 11, Chapter 54), require that a Water Quality Certification be obtained to support federal permits or approvals for which proposed construction or operation may result in discharges to state waters, e.g., Section 404 permit from the USACE. Applications should be filed with the Clean Water Branch of the DOH at least 180 days before the date the Water Quality Certification is needed. Since the proposed project is not expected to generate discharges to state waters during construction, a Section 401 Water Quality Certification is not required.

4.3.3.4 SECTION 402 NPDES PERMIT

Discharge of pollutants into surface waters of the U.S. are controlled under the National Pollutant Discharge Elimination System (NPDES) program, pursuant to Section 402 of the Clean Water Act. This program is administered by the DOH under HAR Title 11, Chapter 55 Water Pollution Control (October 29, 1992). This chapter requires submission of a NPDES application or a Notice of Intent (NOI) for NPDES General Permit coverage, for discharges of regulated pollutants, or for substantially altering the quality of any discharge, or for substantially increasing the quantity of discharge.



The States NPDES General Permit program does not allow discharges into Class AA waters such as Kane'ohe Bay. Any discharges associated with construction activities such as dewatering or hydrotesting must be prevented from entering the east and west lagoons.

4.3.3.5 RIVERS AND HARBORS ACT

Section 10 of the Rivers and Harbors Act prohibits the obstruction or alteration of navigable waters of the U.S. and alterations or modifications of the course, location, condition, or capacity of any port, harbor or refuge, or enclosure within the limits of any breakwater or of the channel of any navigable water without a permit from the USACE. Shore protection and dock/pier repairs and renovation will require Corps permits. As stated in Section 4.1, the utility line rehabilitation/replacement and Lighthouse Pier restoration proposed under the Preferred Alternative require a Section 10 Permit since these work items will involve work in/over Kāne'ohe Bay. The USACE authorizes activities by issuing individual and general permits. Individual permits include Standard Individual Permits and Letters of Permission, and general permits include Nationwide Permits and Regional General Permits. The USACE determines which type of permit is needed once the application has formally been submitted.

4.3.3.6 MARINE PROTECTION, RESEARCH, AND SANCTUARIES ACT

The Marine Protection, Research, and Sanctuaries Act enacted in 1972 regulates the dumping of all types of materials into ocean waters that would adversely affect the marine environment, ecological systems, economic potentialities, or human health, welfare, or amenities. When construction is regulated by other federal or state laws, this Act does not apply to the construction of any fixed structure or the intentional placement of any device in ocean waters for a purpose other than disposal. Since the Clean Water Act already regulates any disposal of materials that may occur as a result of the proposed project, there will be no additional permits required under this Act.

4.3.3.7 CLEAN AIR ACT

The federal Clean Air Act (CAA) was first promulgated in 1963 and presents a framework of air quality standards and emission control provisions for controlling air pollution. Since then, amendments have been made to the CAA to increase federal involvement.

The federal Clean Air Act Amendments (CAAA) of 1990 set forth new initiatives in an effort to achieve the overall goal of attaining compliance with the NAAQS. Such requirements included establishing timelines for EPA to develop regulations concerning acid rain, toxic air pollutants, and motor vehicle pollutants, and for states to implement these regulations.

The CAAA requires that states submit State Implementation Plans (SIPs) to show how attainment or maintenance of NAAQS will be met and requires that an approved operating permit program be implemented. The State of Hawai'i DOH has established an approved operating permit program, detailed in HAR Title 11, Chapter 60.1 (Air Pollution Controls) that



encompasses requirements set forth in the CAAA. Such requirements include demonstrating compliance with the following emission control strategies:

- New Source Performance Standards (NSPS);
- National Emission Standards for Hazardous Air Pollutants (NESHAPS);
- Prevention of Significant Deterioration (PSD).

4.3.3.8 REQUIREMENTS FOR CONSTRUCTION ACTIVITIES

The following City and County of Honolulu permits are associated with construction activities and are expected to be required for the Proposed Action:

- Grubbing, Grading, and Stockpiling Permit from the DPP;
- Building Permits from the DPP;
- Sewer Connection Approval from the Department of Environmental Services; and
- Potable Water Allocation from the DLNR and the BWS.

4.3.3.9 SUMMARY

The following is a summary of the permits and approvals required for the project:

- NPDES (to be submitted by the contractor prior to construction activities);
- USACE Section 10 Permit;
- SMP;
- SSV Permit; and
- DLNR easement for utility lines.



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SECTION 5 FINDINGS AND DETERMINATIONS

In accordance with the provisions set forth in Chapter 343, HRS, this EA has preliminarily determined that the project will not have significant adverse impacts on the environment. As such, a Finding of No Significant Impact (FONSI) is being issued for the Proposed Action. Anticipated impacts will be temporary and will not adversely impact the environmental quality of the area. Therefore, an Environmental Impact Statement (EIS) is not required.

A review of the "Significance Criteria" used as a basis for the above determination is presented below. An action is determined to have a significant impact on the environment if it meets any one of the thirteen (13) criteria.

Involves an irrevocable commitment to loss or destruction of any natural or cultural resources.

The Preferred Alternative would not provide irrevocable commitment to loss or the destruction of any natural or cultural resources.

Curtails the range of beneficial uses of the environment.

The Preferred Alternative would not curtail the range of beneficial uses of the environment. The project site is currently a marine research facility. The surrounding areas are maintained as residential areas. The Preferred Alternative would not have any impacts to the uses of the surrounding areas.

Conflicts with the State's long-term environmental policies or goals and guidelines as expressed in Chapter 343, HRS; and any revisions thereof and amendments thereto, court decisions, or executive orders;

The Preferred Alternative would be in conformance with the Chapter 343 HRS State Environmental Policy, to enhance the quality of life.

Substantially affects the economic or social welfare of the community or State;

The Preferred Alternative would not have a significant impact on the economic and social welfare of the community or the State. The proposed project would have short-term beneficial impacts by creating temporary construction jobs for the duration of the construction period.

Substantially affects public health;

The Preferred Alternative would have no significant effects on public health.

Involves substantial secondary impacts, such as population changes or effects on public facilities;

The Preferred Alternative would not result in substantial secondary impacts, such as population changes or effects on public facilities.

Involves a substantial degradation of environmental quality;

The Preferred Alternative would not likely result in a substantial degradation of environmental quality. The construction activities will be implemented using BMPs.



Is individually limited, but cumulatively has considerable effect on the environment, or involves a commitment for larger actions;

The Preferred Alternative is not anticipated to result in cumulative effects; therefore, it would not involve a commitment to larger actions.

Substantially affects a rare, threatened, or endangered species or its habitat;

The Preferred Alternative is not anticipated to have substantial effects on a rare, threatened, or endangered species, or any critical habitat. No threatened or endangered plant or animal or marine species nor candidate species were found during the flora, fauna, and marine survey of the project site. The project site does not encompass any designated or proposed critical habitat for threatened or endangered species. Measures to mitigate any potential impacts to the biological resources within the project area will be used during the construction period.

Detrimentally affects air or water quality or ambient noise levels;

No significant impacts on the area's long-term air or water quality or ambient noise levels are anticipated to result from the Preferred Alternative. Construction noise that exceeds DOH guidelines should be mitigated to reduce the potential of noise level exceedances. Additionally, water quality impacts should be mitigated with the use of silt fences during construction activities to contain runoff that may potentially reach the surrounding water. Dust abatement measures should be used to reduce potential of impact to air quality during construction. With these measures in place, the project would not detrimentally affect the air, water, or noise quality.

Affects or is likely to suffer damage by being located in an environmentally sensitive area, such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters;

The Preferred Alternative would not affect environmentally sensitive areas, such as a floodplain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, freshwater, or coastal waters. Construction activities will cease in case of a natural hazard until it is deemed safe to resume work.

Substantially affects scenic vistas and view planes identified in City and County or State plans or studies; or

The Preferred Alternative would not adversely affect the visual aesthetics of the areas identified in the City and County or State plans and studies.

Requires substantial energy consumption.

The Preferred Alternative would not require substantial energy consumption.
SECTION 6
AGENCIES AND ORGANIZATIONS CONSULTED

The following is a list of agencies and organizations to which pre-assessment letters were sent. Appendix C-1 and Appendix C-2 include the pre-assessment letters sent and the responses received, respectively. As part of the pre-application consultation phase, the project was presented to the Kāne'ohe neighborhood board in August 2013. The meeting minutes from this meeting are included in Appendix C-1.

	Consulted Agency or Organization	Pre-Assessment Responses Received	Date
	USACE	X	9/10/13
	USACL		8/23/13
	USEWS		8/23/13
Endoral Aganaias	USFWS	Λ	0/23/13
rederar Agencies	(USDA) Natural Pasouroos Conservation		
	(USDA) Natural Resources Conservation		
	FRA Desifie Islands Contact Office		
	Department of Accounting and Conoral		
	Services	Х	9/19/13
	Department of Agriculture		
	Department of Rusiness Economic		
	Development and Tourism (DREDT)		
	DEVelopment and Tourism (DBEDT)		
	DBEDT - Energy Division	v	8/20/12
	DBEDT - Office of Flamming		0/29/13
	Department of Defense	Λ	9/24/15
	Department of Emergency Management		
	Department of Hawanan Home Lands	v	0/20/12
	DOH Environmental Planning Office		8/28/13
	DOH Clean water Branch	А	9/4/13
State Agencies	Control	Х	9/13/13
	Department of Human Services	Х	9/3/13
	Department of Labor and Industrial Relations	Х	8/26/13
	DLNR - Historic Preservation Division		
	DLNR - Land Division	Х	9/12/13
	Department of Transportation	Х	9/12/13
	Disability and Communication Access Board	Х	9/11/13
	OEQC		
	Office of the Governor (Neil Abercrombie)		
	Office of Hawaiian Affairs		
	UH Environmental Center		
	UH Water Resources Research Center		
	BWS	Х	9/18/13
	Department of Community Services	Х	8/30/13
	Department of Design and Construction	Х	9/6/13
	Department of Environmental Services	Х	9/13/13
	Department of Facility Maintenance	Х	9/13/13
City and County of	Department of Planning and Permitting	Х	9/17/13
Honolulu	Department of Parks and Recreation	Х	8/29/13
	Department of Transportation Services	Х	9/16/13
	Honolulu Fire Department	Х	9/9/13
	Honolulu Police Department	Х	9/10/13
	Office of the Mayor (Kirk Caldwell)		
	Kāne'ohe Public Library		
T '1 '	Municipal Library, Honolulu (Municipal		
Libraries	Reference Center)		
	Legislative Reference Bureau		

Table 6-1: List of Agencies and Organizations Consulted



	State Main Library (Hawai'i State Library)		
Librarias	UH Hamilton (University of Hawai'i at		
Libraries	Manoa Library)		
News Media	Honolulu Star Advertiser		
	U.S. Senator (Mazie Hirorno)		
	U.S. Senator (Schatz Brian)		
	U.S. Representative (Colleen Hanabusa)		
	U.S. Representative (Tulsi Gabbard)		
	State Senator (District 23) (Clayton Hee)		
	State Senator (District 24) (Jill Tokuda)		
Elected Officials	State Representative (District 48) (Jessica		
	Wooley)		
	State Representative (District 49) (Ken Ito)		
	County Council Member (District 3) (Ikaika		
	Anderson)		
	Neighborhood Commission Office, Chair,		
	Kāne'ohe Neighborhood Board No. 30		
	HECO		
Utility Companies	Hawaiian Telecom		
Other Companies	Hawaiʻi Gas	Х	9/25/13
	Oceanic Time Warner		
	Koʻolauloa Hawaiian Civic Club		
	HIMB		
	Friends of Kāne'ohe Bay		
	Kāne'ohe Bay Regional Council		
	Ahupua'a Restoration Council of He'eia		
	Friends of He'eia State Park		
Citizen Groups and	Kāne'ohe Business Group		
Individuals	Kāne'ohe Outdoor Circle		
	Loren Lasher	X	8/21/13
	МСВН		
	He'eia Historical Society		
	Kahaluu Neighborhood Board		
	Kailua Neighborhood Board		
	Polynesian Voyaing Society (PVS)		



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APPENDIX A ENGINEERING DRAWINGS



COCONUT ISLAND UTILITY **REHABILITATION / REPLACEMENT** KANEOHE, OAHU, HAWAII

PROJECT NO. UHM 000-017-12

OWNER: UNIVERSITY OF HAWAII AT MANOA FACILITIES PLANNING & MANAGEMENT OFFICE STATE OF HAWAII TAX MAP KEY: 4-6-001: 01 (COCONUT ISLAND) 4-6-001: 15,16 & 17 (LILIPUNA PIER)



Engineering Design

INDEX TO DRAWINGS

DESCRIPTION	DWG NO.	<u>SHEET NO</u>
TITLE SHEET		1
GENERAL LAYOUT PLAN	C-1	2
DEMOLITION PLAN - LILIPUNA PIER	C-2	
DEMOLITION PLAN - LIGHTHOUSE PIER	C-3	4
DEMOLITION PLAN - GRAVITY SEWERLINE	C-4	5
SITE AND PIPING PLAN - LILIPUNA ROAD		6
SITE AND PIPING PLAN - LILIPUNA PIER		7
SITE AND PIPING PLAN - RECEIVING SITE - 1	C-7	8
SITE AND PIPING PLAN - RECEIVING SITE - 2		9
SITE AND PIPING PLAN - NORTH LAGOON		10
PLAN AND PROFILE		
HDD CROSSING 1	C-10 TO C-11	
HDD CROSSING 2	C-12 TO C-13	
NORTH LAGOON GRAVITY SEWERLINE		
PUMP STATION REMOVAL PLAN		
PUMP STATION PLAN AND SECTION		
LIGHTHOUSE PIER PLAN AND SECTIONS		

PROJECT LOCATION

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Community Planning and Engineering, Inc.

Construction Management | Infrastructure Planning Honolulu, Hawa

DIRECTOR, RESEARCH CORPORATION OF THE UNIVERSITY OF HAWAII UNIVERSITY OF HAWAII STATE OF HAWAII	DA
DIRECTOR, FACILITIES PLANNING & MANAGEMENT OFFICE UNIVERSITY OF HAWAII STATE OF HAWAII	DA ⁻
DIRECTOR, DEPARTMENT OF PLANNING AND PERMITTING CITY AND COUNTY OF HONOLULU	DA















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 Scale: 1 in. = 20 ft.

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APPENDIX B PILEMEDIC[™] INFORMATION SHEET

PileMedic™ for Encapsulating Underwater Piles

A Patent-Pending Technology Developed by QuakeWrap, Inc.



Guilford House Condominums 9800 West Bay Harbor Drive, Bay Harbor Isles, FL



Deteriorated Pile



Cut PileMedic™ sheet to desired size



Mix QuakeBond[™] 220UR (Underwater Resin) and apply QuakeBond[™] 220UR to the back of PileMedic[™] with a thickness of about 30-40 mil



Transport the PileMedic[™] sheet into water



Wrap PileMedic[™] around deteriorated pile to create a double-layer cylindrical jacket



Temporarily support the jacket by wrapping a couple of ratchet straps around it



Mix grout and fill the annular space between the jacket and the pile with grout



Wait 24 hours for the underwater resin to cure and remove the ratchet straps

Advantages

- One size fits all piles (no delays for customized jackets)
- No weak seams along height
- No metallic parts
- No costly divers
- Grout can be pressurized
- Provides structural confinement
- Available in carbon or glass





Phone: 520-791-7000 www.PileMedic.com www.QuakeWrap.com

APPENDIX C-1 MEETING MINUTES AND PRE-ASSESSMENT CONSULTATION LETTERS


Meeting Memo

To: Project File: #1085-002 Coconut Island Infrastructure Improvements

From: Colette Sakoda

Date: August 16, 2013

Re: Project Presentation at Kaneohe NB August 15, 2013 Meeting

Meeting Held: Thursday, August 15, 2013, 7:00 pm in Benjamin Parker Elementary School. <u>http://www1.honolulu.gov/nco/nb30/13/30201308ag.pdf</u>

Purpose of meeting:	Present Project Overview
Attendees:	Kaneohe Neighborhood Board members
	Community Residents, Public Officials, Representatives
	Derek Mukai, Chief Engineer, CPE
	Puna Kaneakua, Project Engineer, CPE
	Hernan Co, Project Engineer, CPE
	Colette Sakoda, Environmental Planner, CPE

- 1. CPE presented the project overview supported by ppt slides that helped illustrate the proposed infrastructure system improvements. Handouts of the ppt slideshow were also distributed. The scope of work presented to the neighborhood board (NB) included the sewer and telecommunication replacement, on-island sewer line relocation, sewer pump replacement and lighthouse pier repair.
- 2. CPE emphasized how this is early notification of the environmental permitting phase of this project, and this will be the first of many updates to the NB over the coming months with the Chapter 343 Environmental Assessment as well as the Special Management Area Use permit and Shoreline Setback Variance application processes that will involve public review and consultation throughout the permitting process.
- 3. NB chair acknowledged that questions regarding the construction period activities are premature at this early stage. CPE responded to a board member's question regarding whether any historic structures would be affected and confirmed that the process would not involve Section 106 of the NHPA.
- 4. CPE responded to a few questions about order of magnitude costs of rehabilitation of the lighthouse pier platform as well as the pier post restoration as well as the foreseeable diameter of the pipe that will be installed under the Kaneohe Bay bottom that will house the sewer and telecommunications fiber optic cable.



Kaneohe NB Meeting Project Presentation Meeting date: August 15, 2013 Page 2

5. A member of the public asked whether on-island wastewater treatment had been researched as an option. CPE responded that this has been looked at in past projects but is infeasible because it would be difficult to dispose of treated water on-island.

Action Items:

- 1. Colette will prepare minutes of this August 2013 NB presentation and Q&A that followed.
- 2. The team will be available to respond to any questions from the NB to ensure continued discussion and understanding of the project goals, details and schedule.

This Minutes of Meeting memorandum is CPE's understanding of the items discussed during this meeting for the Coconut Island Infrastructure Improvements EA/Permitting Phase 2. It is requested that all who were in attendance review this Minutes of Meeting for its content and accuracy. If there are no responses and/or comments to this Minutes of Meeting memorandum within ten (10) calendar days, CPE will assume that all information stated herein is correct and agreed upon by all who were in attendance. CPE will not be held responsible for any misinterpretation and/or misunderstanding of the above stated information thereafter.

Recorded by: C. Sakoda

cc: Derek Mukai, Puna Kaneakua, Hernan Co

1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of	currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lving on the bottom of the bay as they	(4) Lighthouse Pier restoration	 (2) Re-routing existing gravity sewer line (on the north end of the island) (3) Sewage pump replacement and wetwell repairs 	Intrastructures at the facility. The following work improvements are part of this project: (1) Utility line rehabilitation/replacement	existing sever, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing	The surpose of the proposed project is to provide the much people of control people of the	suppremention of the application process to evaluate and document the possible environmental, prepared as part of the application process to evaluate and document the possible environmental, social, and economic consecuences associated with the project scope.	application for the proposed utility rehabilitation/reprive Current at Cocconut Island, Kaneohe, O'ahu. A supplementat Cocconut Island, Kaneohe, O'ahu. A	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Dermit (major) (SMD) and Shoreline Sethack Variance (SSV)	Dear Mr. Young,	Area Ose Fernii, (major) (SMF) and Shoreine Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management	Building 230 Fort Shafter, Hawaii 96858-5440	Mr. George Young United States Army Corps of Engineers Honolulu District ATTN: CEPOH-EC-R	August 21, 2013	and Engineering, inc.	cp&e Community Planning	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Enclosure: Site Plan	Colette Sakoda Senior Project Manager	Contain John	Sincerely,	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	650 South King Street, 7th Floor Honolulu, Hawaii 96813	City and County of Honolulu Department of Planning and Permitting	George I. Atta, FAICP Attn: Steve Tagawa	Please send a copy of your comments to:	1286 Queen Emma Street Honolulu, Hawai'i 96813	Colette Sakoda Community Planning and Engineering Inc	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	piles. This menod will allow the pilings to be reconstructed without allecting the base informing the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	pier's platform. The laminates will be wrapped around the deteriorating piles and heid in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original term the prime the files.	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing plies are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the	deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the	the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.	



Planning The third work item will involve replacing the pumps in the existin the east side of the island to support the proposed replacement to deteriorating wetwell interior with epoxy coating to protect the cor These replacement/repairs are needed since the existing pump s optimum efficiency. August 21, 2013 The fourth work item will involve demolishing and removing the e
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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tet (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 (1) Utility line rehabilitation/replacement (2) Re-routing existing gravity sewer line (on the north end of the island) (3) Sewage pump replacement and wetwell repairs (4) Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Stack Variance (SSV)	Dear Sir or Madam,	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawai'i	Pacific Islands Fish and Wildlife Office U.S. Fish and Wildlife Service 300 Ala Moana Boulevard Room 3-122, Box 50088 Honolulu, Hawaii 96850	Community Planning and Engineering, Inc.	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (608) 521-7491 I Fax: (608) 526-2476 I Email: mail@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Colution John	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Honolulu, Hawari 96813 Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the temporarily with ratchet straps. The space between the pile and the laminate will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	manholes, and the existing gravity sewer line will be abandoned in place.



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	1286 Oueen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com
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Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu. Hawati 96813	Dear Mr. Figueroa,
The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi
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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Orchitor John	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	1286 Queen Emma Street Honolulu, Hawai'i 96813 Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc.	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.	to be buried beneaith the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines	 (3) Sewage pump replacement and wetwell repairs (4) Lighthouse Pier restoration 	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) 	provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to	prepared as part or the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'anu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be	process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)	Dear Sir or Madam, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the		(ээ v) Аррисаион. Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance	Subject: Pre-Assessment Consultation for City and County of Honolulu	1428 South King Street Honolulu, Hawaii 96814	Department of Agriculture Office of the Chairperson	August 21, 2013	and Engineering, Inc.	Community Planning	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Enclosure: Site Plan	Colette Sakoda Senior Project Manager	Colution Speler	Sincerely,	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	650 South King Street, 7th Floor Honolulu, Hawaii 96813	City and County of Honolulu Department of Planning and Permitting	George I. Atta, FAICP Attn: Steve Tanawa	Please send a copy of your comments to:	Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	Colette Sakoda	we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The project is in its scoping phase, and we seek your input in terms of issues that would identify notential environmental impacts associated with the proposed project. In conjunction with this work	plies in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilons to be reconstructed without affection the base holding the	condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footbrint. Since the existing plathouse re in poor structural	the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on	

el: (808) 521-7491 | Fax: (808) 526-2476 | Email: mail@cpe-



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tet (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will the into existing manholes, and the existing gravity sewer line will be abandoned in place.	to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines	 Utility line renabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration 	infrastructures at the facility. The following work improvements are part of this project:	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide motion provide the provide the serve of the provided the server failure of the previous of the pr	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island Kaneohe O'abu. A	Dear Mr. Lim, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the	Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management	P.O. Box 2359 Honolulu, Hawaii 96804	August 21, 2013 Mr. Richard C. Lim, Director Department of Business Economic Development and Tourism	colored Community Planning and Engineering, Inc.	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (608) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Enclosure: Site Plan	Colette Sakoda Senior Project Manager	Sincerely, Occurr of bolin	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	650 South King Street, 7th Floor Honolulu, Hawaii 96813	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Conerce Sanoua Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the	I ne rourth work item will involve demolishing and removing the existing Lighthouse Fier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at	



	The second work item will involve re-routing the existing sewer line located on the north side of the
Enclosure: Site Plan	to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.
Colette Sakoda Senior Project Manager	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines
Sincerely, Arctition Balad	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration
Thank you in advance for participating in th any questions or need clarification, please	provide maintentativer repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:
650 South King Street, 7th Floor Honolulu, Hawaii 96813	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sever, communications, water, and electricity lines that serve Coconut Island as well as to account for the existing several formation of the
George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	application for the proposed unity renamination replacement at cocontra istantic, raneorie, O and, A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.
Please send a copy of your comments to:	process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)
Colette Sakoda Community Planning and Engineerii 1286 Queen Emma Street Honolulu, Hawai'i 96813	Dear Mr. Glick, Community Planning and Engineering. Inc. on behalf of Hawaii Institute of Marine Biology is in the
we are requesting any written comments a Please send your written comments to the	Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi
The project is in its scoping phase, and we potential environmental impacts associated	Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application:
pile in place, thus reducing potential impact the surrounding water from being contamir	Subject: Pre-Assessment Consultation for City and County of Honolulu
temporarily with ratchet straps. The space grout. After curing, the final product will pr piles. This method will allow the pilinos to	No. 1 Capitol District Building 250 South Hotel Street Honolulu, Hawaii 96813
The fourth work item will involve demolishi replacing it with a new platform of the sam condition, they will be refurbished with fibe nier's platform. The Jaminates will be wrate	Mr. Mark Glick, Energy Administrator Department of Business, Economic Development and Tourism Energy Division
These replacement/repairs are needed sin optimum efficiency.	August 21, 2013
The third work item will involve replacing the the east side of the island to support the pr deteriorating wetwell interior with epoxy co-	and Enginéering, Inč.
manholes, and the existing gravity sewer lin	core Community Planning

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island. The buildings that were connected to this sewer line no longer exist; therefore, there is no

need to continue service to this area of the island. The replacement sewer line will tie into existing ine will be abandoned in place.

the pumps in the existing sewer pump station located on proposed replacement force main and coating the pating to protect the concrete walls from sewage gases. nce the existing pump station is no longer operating at

ing and removing the existing Lighthouse Pier, and ne footprint. Since the existing piles are in poor structural er reinforced polymer laminates prior to replacement of the pped around the deteriorating piles and held in place to between the pile and the laminate will then be filled with roduce strengths equal to or stronger than the original be reconstructed without affecting the base holding the cts to the surrounding coral. This method will also prevent nated with grout.

e seek your input in terms of issues that would identify ad with the proposed project. In conjunction with this work, and/or information with respect to your area(s) of concern. following by September 15, 2013:

he planning stages of this important project. If you have contact me at 833-2225 ext. 1004.

1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe-hawaii.com



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will the into existing	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 (1) Utility line rehabilitation/replacement (2) Re-routing existing gravity sewer line (on the north end of the island) (3) Sewage pump replacement and wetwell repairs (4) Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Spreline Staback Variance (SSV) application for the pronoed utility relabilities indeployment at Coconst Island Vanache Orbot.	Dear Mr. Souki,	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawai'i	Mr. Jesse K. Souki, Director Department of Business, Economic Development and Tourism Office of Planning P.O. Box 2359 Honolulu, Hawaii 96804	colored Community Planning and Engineering, Inc.
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Colution Balan	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Honolulu, Hawaiʻi 96813 Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the prevention works from be the comparison with the surrounding coral.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A envolvemental Charver 2/14 Hawaii Baviced Visitive (HSV) Environmental Cascesement (FA) will be	Dear Major General Wong,	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i	Major General Darryll Wong Department of Defense 3949 Diamond Head Road Honolulu, Hawaii 96816-4495	August 21, 2013	coxe and Engineering, Inc.
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The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

social, and economic consequences associated with the project scope.

prepared as part of the application process to evaluate and document the possible environmental

Utility line rehabilitation/replacement
 Re-routing existing gravity sewer line (on the north end of the island)
 Sewage pump replacement and wetwell repairs
 Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utilty lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

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> The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

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The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Denartment of Planning and Permi

Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Weller Bolint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan

1286 Queen Emma Street I Honolulu, Hawaii 96813 | Tel: (808) 521-7491 | Fax: (808) 526-2476 | Email: mail@cpenawai com



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawali.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	application for the proposed unity renabilitation/replacement at Coconut Island, Kaneone, O and, A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and Counity of Honolulu Department of Planning and Permitting (DPP) special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)	Dear Mr. Kaku,	Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	August 21, 2013 Mr. Melvin N. Kaku, Director Department of Emergency Management Basement 650 South King Street Honolulu, Hawaii 96813 Subject: Pre-Assessment Consultation for City and County of Honolulu	colored Community Planning and Engineering, Inc.
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Orcition Balant	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Amma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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Plann ering, l
ing Inc.

August 21, 2013

91-5420 Kapolei Parkway Kapolei, Hawaii 96707 Department of Hawaiian Home Lands Hale Kalaniana'ole Hawaiian Homes Commission Ms. Jobie Masagatani, Chair

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance Coconut Island Utility Rehabilitation / Replacement Project Hawaii Institute of Marine Biology (SSV) Application

Dear Ms. Masagatani,

Kaneohe, Oʻahu, Hawaiʻi

social, and economic consequences associated with the project scope. prepared as part of the application process to evaluate and document the possible environmental, supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the

infrastructures at the facility. The following work improvements are part of this project: provide maintenance/repair to items identified as high priority to prevent failure of the existing existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to The purpose of the proposed project is to provide the much needed upgrades/replacement of the

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines Please see the enclosed Site Plan for locations of the work improvements. The first work item will

island. The second work item will involve re-routing the existing sewer line located on the north side of the The buildings that were connected to this sewer line no longer exist; therefore, there is no

1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe

manholes, and the existing gravity sewer line will be abandoned in place need to continue service to this area of the island. The replacement sewer line will tie into existing

optimum efficiency. These replacement/repairs are needed since the existing pump station is no longer operating at deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases the east side of the island to support the proposed replacement force main and coating the The third work item will involve replacing the pumps in the existing sewer pump station located on

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Please send your written comments to the following by September 15, 2013: we are requesting any written comments and/or information with respect to your area(s) of concern. potential environmental impacts associated with the proposed project. In conjunction with this work The project is in its scoping phase, and we seek your input in terms of issues that would identify

Colette Sakoda

Honolulu, Hawai'i 96813 Community Planning and Engineering, Inc 1286 Queen Emma Street

Please send a copy of your comments to:

Department of Planning and Permitting 650 South King Street, 7th Floor Attn: Steve Tagawa City and County of Honolulu George I. Atta, FAICP

Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Weller Hours

Senior Project Manager Colette Sakoda

Enclosure: Site Plan

1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe-



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tet (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the Island. The replacement sewer line will the into existing	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	application for the proposed unity retrabilitation/repracement at Cocontrul Istand, Nameorie, O and, A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV)	Dear Ms. Fuddy,	Curject. The Arrangement Consumation for use and country of incorporation Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Ms. Loretta J. Fuddy, Director Department of Health Kinau Hale 1250 Punchbowl Street Honolulu, Hawaii 96813	Community Planning and Engineering, Inc.	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Colution Bolind	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Denartment of Planning and Permitting	Honolulu, Hawaiii 96813 Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Outeen Emma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing ples are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	



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Colette Sakoda Senior Project Manager Enclosure: Site Plan	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.
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George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.
Honolulu, Hawai'i 96813 Please send a copy of your comments to:	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SV) application for the proposed utility rehabilitation/replacement at Coconut Island Kaneohe (O'abu A
Community Planning and Engineering, Inc.	Dear Ms. Wai,
The project is in its scoping phase, and we seek your input in terms of issues potential environmental impacts associated with the proposed project. In con we are requesting any written comments and/or information with respect to yo Please send your written comments to the following by September 15, 2013:	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i
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These replacement/repairs are needed since the existing pump station is no loptimum efficiency.	August 21, 2013
The third work item will involve replacing the pumps in the existing sewer pur the east side of the island to support the proposed replacement force main a deterioration wetwell interior with enouv continu to notect the concrete walls	colored Community Planning and Engineering, Inc.
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August 21, 2013

Ms. Patricia McManaman, Director Department of Human Services 1390 Miller Street, Room 209 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Ms. McManaman,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

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> The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

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Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan

1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mali@cpenawaii.com



1286 Queen Emma Street I Honolulu, Hawaii 96913 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will the into existing manholes, and the existing gravity sewer line will be abandoned in place.	be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Dear Mr. Takamine, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island. Kaneohe. O'ahu. A	Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Mr. Dwight Takamine, Director Department of Labor and Industrial Relations 830 Punchbowl Street Honolulu, Hawaii 96813 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management	Community Planning and Engineering, Inc.
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	any questions or need clarification, please contact me at 833-2225 ext. 1004. Sincerely, Occutor bound	Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813 Please send a copy of your comments to:	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.


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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Senior Project Manager Enclosure: Site Plan	Sincereiy, Acutor School	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The fourth work item will involve demolishing and removing the existing Lightbouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with temporarily with ratchet straps.	optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at



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Community Planning and Engineering, Inc

Kapolei, Hawaii 96707 601 Kamokila Boulevard Kakuhihewa Building Historic Preservation Division Department of Land and Natural Resources Ms. Nicki Thompson, Interim Administrator

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance Coconut Island Utility Rehabilitation / Replacement Project Hawaii Institute of Marine Biology (SSV) Application

Dear Ms. Thompson

Kaneohe, Oʻahu, Hawaiʻi

social, and economic consequences associated with the project scope. prepared as part of the application process to evaluate and document the possible environmental, supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the

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Colette Sakoda

Honolulu, Hawai'i 96813 Community Planning and Engineering, Inc 1286 Queen Emma Street

Please send a copy of your comments to:

Department of Planning and Permitting Attn: Steve Tagawa City and County of Honolulu George I. Atta, FAICP 650 South King Street, 7th Floor

Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely,

Welles Mound

Senior Project Manager Colette Sakoda

Enclosure: Site Plan

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Community Planning and Engineering, Inc

Office of Environmental Quality Control 235 South Beretania Street, Suite 702 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

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Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu

Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

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Sincerely,

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Colette Sakoda Senior Project Manager

Enclosure: Site Plan

1286 Queen Emma Street I Honolulu, Hawaii 96813 | Tel: (808) 521-7491 | Fax: (808) 526-2476 | Email: mail@cpenawaii.com



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.	currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they	 (3) Sewage pump replacement and werweil repairs (4) Lighthouse Pier restoration 	 Utility line rehabilitation/replacement Re-routing existing gravity sever line (on the north end of the island) Structure restrict and vectoral processor 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	supplemental Chapter 343 Hawali Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	special Management Area Use Permit (major) (SMP) and Shorement steback Variance (SSV) application for the proposed utility rehabilitation/replacement at Ceconut Island, Kaneohe, O'ahu. A application for the proposed utility rehabilitation/replacement at Ceconut Island, Kaneohe, O'ahu. A	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP)	Dear Sir or Madam	Area Use Permit (major) (SMP) and Snoreline Setback Variance (SSV Application: Hawaii institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management	August 21, 2013 The Honorable Neil Abercrombie Governor, State of Hawaii Executive Chambers, State Capitol Honolulu, Hawaii 96813		colored Community Planning and Engineering, Inc.
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Enclosure: Site Plan	Colette Sakoda Senior Project Manager	(hellen foldet)	any questions or need clarification, please contact me at 833-2225 ext. 1004.	Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu	Please send a copy of your comments to:	Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	Colette Sakoda	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	plies. This method will allow the plinings to be reconstructed without allecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filed with grout. After curing, the final product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce strengths equal to or stronger than the original product will produce the product will produce strengths equal to or stronger than the original product will produce the produce strengths equal to or stronger the product will produce the produce strengths equal to or stronger than the produce strengths equal to or stronger the produce strengths equal to or stronger the produ	optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004. Sincerely. Occurrent of the second state of the	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813 Please send a copy of your comments to:	pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout. The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Obcutor Bolink	650 South King Štreet, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Automation Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pler, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the plings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	nnese replacement/repairs are needed since ure exisiing punip station is no ionger operating at optimum efficiency.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Senior Project Manager Enclosure: Site Plan	Colette Sakoda	Sincerely, OccUUD Balant	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	George I. Atta, FAICP Attn: Steve Tagawa Citv and County of Honolulu	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	rine rourin work item will involve demonstruity and removing the existing Lightmouse Fret, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original	Optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at



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Community Plani and Engineering,	
ning Inc.	

Board of Water Supply 630 South Beretania Street Honolulu, Hawaii 96843

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

Utility line rehabilitation/replacement
 Re-routing existing gravity sewer line (on the north end of the island)

(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

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The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:

Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely, Weller Bolint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan

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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mai@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely. Obcution Bolin	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu Hawa'ii 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the plings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawali.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Welton Bolint	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Corette sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu Hawa'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the piling to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing	Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) Sewage pump replacement and wetwell repairs Lighthouse Pier restoration 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and Counity of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Period (major) (SMP) and Shoreline Setback Variance (SSV)	Dear Mr. Steinberger,	Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i	Mr. Timothy Steinberger Department of Environmental Services City and County of Honolulu 1000 Ulu ohia Street, Suite 308 Kapolei, Hawaii 96707	Community Planning and Engineering, Inc.	
1286 Queen Emma Street I Honolulu, Hawaii 96813 Tel: (808) 521-7491 Fax: (808) 526-2476 Email: mail@cpe- hawail.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Architor Johns	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent	mannoles, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	mankalon and the existing annuity open line will be abandoned in slope



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				r in the planning stages of this important project. If you ase contact me at 833-2225 ext. 1004.		to:	eering, Inc.	d we seek your input in terms of issues that would iden iated with the proposed project. In conjunction with this and/or information with respect to your area(s) of cc the following by September 15, 2013:	Isking and removing the existing Lighthouse Pier, and same footprint. Since the existing piles are in poor stru fiber reinforced polymer laminates prior to replacement wrapped around the deteriorating piles and held in plac acce between the pile and the laminate will then be file ill produce strengths equal to or stronger than the origin to be reconstructed without affecting the base holding pacts to the surrounding coral. This method will also p aminated with grout.	e proposed replacement force main and coating the y coating to protect the concrete walls from sewage gas d since the existing pump station is no longer operating	ver line will be abandoned in place. In the pumps in the existing sewer pump station locate	



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Colution Balan	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Contents Sakoda Community Planning and Engineering, Inc. 1286 Quantum Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Colution Balan	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Please send a copy of your comments to:	Contents Sakoda Community Planning and Engineering, Inc. 1286 Quantum Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strangths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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1286 Queen Emma Street I Honolulu, Hawaii 96813 Tei: (808) 521-7491 Fax: (808) 526-2476 Email: mail@cpe- hawail.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Sincerely, Occutor John	650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting	Honolulu, Hawai'i 96813 Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, truus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding with reducing with the constructed withorut.	manholes, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.



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	Enclosure: Site Plan	(heller) Bohnd	Sincerely,	Thank you in advance for pa any questions or need clarifi	Department of Planning and 650 South King Stree Honolulu, Hawaii 968	George I. Atta, FAICP Attn: Steve Tagawa City and County of Hc	Please send a copy of your	Colette Sakoda Community Planning ; 1286 Queen Emma S Honolulu, Hawai'i 968	potential environmental imp: we are requesting any writte Please send your written cor	The project is in its scoping	plies. This memory will allow pile in place, thus reducing p the surrounding water from I	grout. After curing, the final	pier's platform. The laminat	replacing it with a new platfo condition, they will be refurbi	The fourth work item will inve	optimum efficiency.	the east side of the island to deteriorating wetwell interior

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itreet ω and Engineering, Inc.

comments to:

d Permitting st, 7th Floor 3 onolulu

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Mr. Louis M	
. Kealoha, Chief of Police	Community Planning and Engineering, Inc.

Mr. Louis M. Kealoha, Chief of Police Honolulu Police Department 801 South Beretania Street Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Mr. Kealoha,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

(1) Utility line rehabilitation/replacement
(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will tie into existing manholes, and the existing gravity sewer line will be abandoned in place.

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Enclosure: Site Plan

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Mayor Kirk Caldwell 530 South King Street, Room 306 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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Kaneohe Public Library 45-829 Kamehameha Highway Kaneohe, Hawaii 96744

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Municipal Reference Center 558 South King Street Honolulu, Hawaii 96813

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Legislative Reference Bureau Hawaii State Capitol, Room 005 Honolulu, Hawaii 96813

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Hawaii State Library 478 South King Street Honolulu, Hawaii 96813

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University of Hawaii at Manoa Hamilton Library 2550 McCarthy Mall Honolulu, Hawaii 96822

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 Department of Planning and Permitting (DPP) Special Management
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Honolulu Star Advertiser 500 Ala Moana Boulevard, #7-210 Honolulu, Hawaii 96813

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Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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Senator Mazie K. Hirono 330 Hart Senate Office Building Washington, DC 20510

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Senator Hirono,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:

Utility line rehabilitation/replacement
 Re-routing existing gravity sewer line (on the north end of the island)

(2) Re-routing existing gravity sewer line (on the north end of the island)
(3) Sewage pump replacement and wetwell repairs
(4) Lighthouse Pier restoration

Please see the enclosed Site Plan for locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneohe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marrine habitat and resources by eliminating release of sediment during construction and impacts to the coral reef.

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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpehawaii.com

> The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.

The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.

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Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely, Weller Bolint

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Senator Brian Schatz 722 Hart Senate Office Building Washington, DC 20510

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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Representative Colleen Hanabusa 300 Ala Moana Boulevard, Room 4-104 Honolulu, Hawaii 96850

 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Representative Hanabusa,

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Colette Sakoda Senior Project Manager

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Representative Tulsi Gabbard 300 Ala Moana Boulevard, 5-104 Prince Kuhio Bldg. Honolulu, Hawaii 96850

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Representative Gabbard,

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Senator Clayton Hee Hawaii State Capitol, Room 407 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Senator Hee,

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Representative Jessica Wooley Hawaii State Capitol, Room 441 Honolulu, Hawaiai 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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Representative Ken Ito Hawaii State Capitol, Room 432 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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Councilmember Ikaika Anderson 530 South King Street, Room 202 Honolulu, Hawaii 96813

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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1286 Queen Er	Community Diagona and Engineering the loss head of Laweii Institute of Marine Dialoguin in the
Colette Sakoda	Dear Chair Yanagihara,
Please send your writt	Kaneohe, Oʻahu, Hawaiʻi
we are requesting any	Coconut Island Utility Rehabilitation / Replacement Project
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Hawaiian Electric Company P.O. Box 2750 Honolulu, Hawaii 96840

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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August 21, 2013

Hawaiian Telcom 1177 Bishop Street Honolulu, Hawaii 96813

 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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The Gas Company 515 Kamakee Street Honolulu, Hawaii 96814

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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Oceanic Time Warner Cable 200 Akamainui Street Mililani, Hawaii 96789

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Hawaii Institute for Marine Biology P.O. Box 1346 Kaneohe, Hawaii 96744

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Enclosure: Site Plan



1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawail.com	The second work item will involve re-routing the existing sewer line located on the north side of the island. The buildings that were connected to this sewer line no longer exist; therefore, there is no need to continue service to this area of the island. The replacement sewer line will the into existing	resources by eliminating release of sediment during construction and impacts to the coral reef.	Please see the enclosed Site Plan tor locations of the work improvements. The first work item will be conducted using a Horizontal Directional Drilling (HDD) method, which would allow the utility lines to be buried beneath the bottom of Kaneobe Bay rather than lying on the bottom of the bay as they currently exist. This method would minimize impacts to the surrounding marine babitat and	 (3) Sewage pump replacement and wetwell repairs (4) Lighthouse Pier restoration 	 Utility line rehabilitation/replacement Re-routing existing gravity sewer line (on the north end of the island) 	The purpose of the proposed project is to provide the much needed upgrades/replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island as well as to provide maintenance/repair to items identified as high priority to prevent failure of the existing infrastructures at the facility. The following work improvements are part of this project:	prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.	application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, Oʻahu. A supplication for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, Oʻahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment IFA) will be	Dear Mr. Sager, Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) Special Management A City and County of Honolulu Server States (Versione City)	(SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi	Bill Sager Friends of Kaneohe Bay c/o MCCS Business Operations Box 63093, MCB Hawaii Kaneohe Bay, Hawaii 96863 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management	August 21, 2013	community Planning and Engineering, Inc.	
1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tel: (808) 521-7491 I Fax: (808) 526-2476 I Email: mail@cpe- hawaii.com		Enclosure: Site Plan	Colette Sakoda Senior Project Manager	Chellon John	any questions or need clarification, please contact me at 833-2225 ext. 1004.	Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813 Thank you in advance for participating in the planning stages of this important project. If you have	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	mannoles, and the existing gravity sewer line will be abandoned in place. The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.	masholog and the existing anguity server line will be abandoned in place



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alland and	(4) Lighthouse Pier restoration
Sincerely,	(2) Re-routing existing gravity sewer line (on the north end of the island)(3) Sewage pump replacement and wetwell repairs
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Colatta Sakoda	2
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temporarily with ratchet straps. I grout. After curing, the final produpiles. This method will allow the p	Kaneohe, Hawaii 96744
pier's platform. The laminates wi	P.O. Box 1346
replacing it with a new platform of condition, they will be refurbished	Kaneohe Bay Regional Council
optimum efficiency. The fourth work item will involve o	August 21, 2013
The third work item will involve re the east side of the island to supp deteriorating wetwell interior with These replacement/repairs are ne	colored Community Planning and Engineering, Inc.

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Enclosure: Site Plan	Colette Sakoda Senior Project Manager	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004. Sincerely,	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813		The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratchet strans. The space between the pile and the laminate will then be filled with	These replacement/repairs are needed since the existing pump station is no longer operating at optimum efficiency.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases.

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Senator Jill Tokuda, Senator PO Box 6068 Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Senator Tokuda,

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George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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Councilmember Ikaika Anderson 530 South King Street Room 202 Honolulu, Hawaii 96813

 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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He'eia Historical Society 46-522 Haiku Plantations Drive Kaneohe, Hawaii 96744

 Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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1286 Queen Emma Street I Honolulu, Hawaii 96813 I Tei: (808) 521-7491 I Fax (808) 526-2476 I Email: mail@cpe- hawaii.com		Colette Sakoda Senior Project Manager Enclosure: Site Plan	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004. Sincerely, Welton Yound	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813 Please send a copy of your comments to:	pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout. The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the pier's platform. The laminates will be wrapped around the deteriorating piles and held in place temporarily with ratichet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at



Polynesian Voyaging Society 10 Sand Island Parkway Honolulu, Hawaii 96819

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Cocconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

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1286 Queen Emma Street | Honolulu, Hawaii 96813 | Tel: (808) 521-7491 | Fax: (808) 526-2476 | Email: mail@cpehawaii.com

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Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, Hawai'i 96813

Please send a copy of your comments to:

George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813

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Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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Captain Pamela Marshall Marine Corps Base Hawaii Kaneohe Bay, Hawaii 96863

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Sir or Madam,

Community Planning and Engineering, Inc., on behalf of Hawaii Institute of Marine Biology is in the process of preparing a City and County of Honolulu Department of Planning and Permitting (DPP) special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu. A supplemental Chapter 343 Hawaii Revised Statutes (HRS) Environmental Assessment (EA) will be prepared as part of the application process to evaluate and document the possible environmental, social, and economic consequences associated with the project scope.

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Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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August 21, 2013

Donna Ono and Mary Brook Ahupua'a Restoration Council of He'eia 46-522 Haiku Plantations Drive Kaneohe, Hawaii 96744

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Ms. Ono and Ms. Brook,

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Sincerely,

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Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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Mr. Ned Busch Kaneohe Business Group

Subject: Pre-Assessment Consultation for City and County of Honolulu
 Department of Planning and Permitting (DPP) Special Management
 Area Use Permit (major) (SMP) and Shoreline Setback Variance
 (SSV) Application:
 Hawaii Institute of Marine Biology
 Coconut Island Utility Rehabilitation / Replacement Project
 Kaneohe, O'ahu, Hawai'i

Dear Mr. Busch,

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Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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Ms. Mary Yannell, President Kaneohe Outdoor Circle

Subject: Pre-Assessment Consultation for City and County of Honolulu
 Department of Planning and Permitting (DPP) Special Management
 Area Use Permit (major) (SMP) and Shoreline Setback Variance
 (SSV) Application:
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Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan



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1286 Queen Emma Street I Honolulu, Hawaii 96813 Tel: (808) 521-7491 Fax: (808) 526-2476 Email: mail@cpe- hawali.com	Enclosure: Site Plan	Sincerely, <i>Weltton Young</i> Colette Sakoda Senior Project Manager	Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.	George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawaii 96813	Please send a copy of your comments to:	Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813	The project is in its scoping phase, and we seek your input in terms of issues that would identify potential environmental impacts associated with the proposed project. In conjunction with this work, we are requesting any written comments and/or information with respect to your area(s) of concern. Please send your written comments to the following by September 15, 2013:	prior is practorint, in the familinates will be wrapped anounto the deterior daming prices and the laminate will then be filled with temporarily with ratchet straps. The space between the pile and the laminate will then be filled with grout. After curing, the final product will produce strengths equal to or stronger than the original piles. This method will allow the pilings to be reconstructed without affecting the base holding the pile in place, thus reducing potential impacts to the surrounding coral. This method will also prevent the surrounding water from being contaminated with grout.	The fourth work item will involve demolishing and removing the existing Lighthouse Pier, and replacing it with a new platform of the same footprint. Since the existing piles are in poor structural condition, they will be refurbished with fiber reinforced polymer laminates prior to replacement of the condition, they will be used will be warned around the detaincration else and head in place the near solution.	The third work item will involve replacing the pumps in the existing sewer pump station located on the east side of the island to support the proposed replacement force main and coating the deteriorating wetwell interior with epoxy coating to protect the concrete walls from sewage gases. These replacement/repairs are needed since the existing pump station is no longer operating at	



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Ms. Amy Luersen, Board Vice Chair and Planning Committee Chair Kahalu'u Neighborhood Board

Subject: Pre-Assessment Consultation for City and County of Honolulu
 Department of Planning and Permitting (DPP) Special Management
 Area Use Permit (major) (SMP) and Shoreline Setback Variance
 (SSV) Application:
 Hawaii Institute of Marine Biology
 Coconut Island Utility Rehabilitation / Replacement Project
 Kaneohe, O'ahu, Hawai'i

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Thank you in advance for participating in the planning stages of this important project. If you have any questions or need clarification, please contact me at 833-2225 ext. 1004.

Sincerely, Weller Holint

Colette Sakoda Senior Project Manager

Enclosure: Site Plan


APPENDIX C-2 RESPONSE TO PRE-ASSESSMENT CONSULTATION LETTERS

From:	Loren Lasher	
To:	<u>Miya Akiba</u>	
Subject:	RE: Pre-Assessment Consulation for the HIMB Coconut Island Utility Rehabilitation/Replacement Project	
Date:	Wednesday, August 21, 2013 4:24:39 PM	
Attachments:	image001.png	
	image002.png	
	image003.png	
	image004.png	

Dear Ms Miya,

After reviewing the project description. It is not appropriate for me to comment as it is not of my area of knowledge or effect.

Thank you, Loren

From: Miya Akiba [mailto:MAkiba@environetinc.com]
Sent: Wednesday, August 21, 2013 4:11 PM
To: loren@lorenlasher.com
Subject: Pre-Assessment Consulation for the HIMB Coconut Island Utility Rehabilitation/Replacement Project

Dear Mr. Lasher,

Please find attached the pre-assessment letter for the Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project. The letter includes a general description of the project and seeks your input on the proposed action. Please provide your written (or email) comments by September 15, 2013.

Sincerely, Miya



PROJECT MANAGER T/ 808.833.2225 EXT.1019 C/ 808.754.0624 F/ 808.833.2231 E/ MAKIBA@ENVIRONETINC.COM ENVIRONET, INC. 1286 QUEEN EMMA STREET, HONOLULU, HAWAII 96813

PLEASE NOTE MY NEW CELL PHONE NUMBER

<u>www.environetinc.com</u> HUBZone & SBA Certified Small Business / Native Hawaiian and Veteran-Owned

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CONFIDENTIALITY: This communication, including attachments, is for the exclusive use of the addressee(s) and may contain proprietary, confidential or privileged information. If you are not the intended recipient, any use, copying, disclosure, or distribution or the taking of any action in reliance upon this information is strictly prohibited. If you are not the intended recipient, please notify the sender immediately, delete this communication and destroy all copies.

Nadiera,

Thank you for your inquiry about the HIMB/Coconut Island Utility Rehabilitation Project preassessment notice. We are at the very beginning of the environmental assessment/permitting phase of this project, and have been scheduling meetings with the neighborhood board, community legislators, organizations and individuals as part of the consultation effort. Please see my responses alongside your questions in your email below.

No federal funds will be used for this project. Through a series of in person meetings with the US Army Corps of Engineers Regulatory branch, DLNR and the City and County of Honolulu Department of Planning and Permitting, our engineers have committed to installation of a new sewer pipe and communications fiber optic cable via the horizontal directional drilling construction method under Kaneohe Bay. Agency staffs have concurred that HDD would be the least threatening environmentally to the Bay bottom and waters.

The purpose of the letter your agency received is to give stakeholders early notification that a Chapter 343 HRS EA is being prepared as well as a Special Management Area Use Permit, Shoreline Setback Variance, ACOE Section 10 permit, and an easement for demarcation of the new utility pipe under the Bay. Affected parties including USFWS will have several opportunities to review and comment on the project Draft EA during a 30-day public review period, the SMP/SSV for which a DPP public hearing will be held, and City Council public hearings for the SMP resolution.

Dr. Jo-Ann Leong, Director of HIMB is our contact on Coconut Island. We are in continual communications with her as pre-permit application scoping was initiated with agencies nearly a year ago, and keep her apprised as we proceed with the EA and permit application preparations.

I hope the responses contained in my email clarify where we are at in this process. Please let me know if you have any other questions. I'm certain we will be in touch throughout the coming months.

Mahalo, Colette Sakoda Sr. Project Manager Environet, Inc.

From: Dale H. Oishi
Sent: Friday, August 23, 2013 2:02 PM
To: Colette M. Sakoda
Subject: FW: Attn: Collette Sakoda, HIMB/Coconut Island Rehabilitation

From: McCarthy, Nadiera [mailto:nadiera_mccarthy@fws.gov]
Sent: Friday, August 23, 2013 1:42 PM
To: Dale H. Oishi
Cc: Dan Polhemus
Subject: Attn: Collette Sakoda, HIMB/Coconut Island Rehabilitation

Ms. Sakoda-

Our office received the pre-assessment consultation request from your office regarding HIMB/Coconut Island in Kaneohe Bay. It was a very short 2 pages with an attached map. Are any form of Federal funds being used during the planning, construction, or operation phases of the project? No federal funds are involved in this project.

Are there any upcoming planning meetings scheduled where we could hear more details of the project before providing comments? We presented a project overview at the Kaneohe Neighborhood Meeting last Thursday night at Benjamin Parker Elementary School. As we said to the Board last Thursday, we plan to provide updates throughout this project process so we will be visiting the Board frequently during the coming year.

A U.S. Army Corps of Engineers permit will most likely be required for the work below the water line - do you have a contact there aware of the project proposal? The Army Corps Regulatory Branch has indicated that we will need to submit a Section 10 permit.

Thank you advance, Nadiera Sukhraj



United States Department of the Interior

U.S. GEOLOGICAL SURVEY Pacific Islands Water Science Center 677 Ala Moana Blvd., Suite 415 Honolulu, Hawaii 96813

Phone: (808) 587-2400/Fax: (808) 587-2401

August 23, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O'ahu, Hawai'i

Thank you for forwarding your letter regarding availability of the Draft Integrated Feasibility Report and Environmental Assessment for the subject project for review and comment by the staff of the U.S. Geological Survey Pacific Islands Water Science Center. We regret however, that due to prior commitments and lack of available staff time, we are unable to review this document.

We appreciate the opportunity to participate in the review process.

Sincerely,

(SIA)

Stephen S. Anthony Center Director

cc: George I. Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, Hawai'i 96813

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DWIGHT TAKAMINE DIRECTOR

AUDREY HIDANO DEPUTY DIRECTOR

STATE OF HAWAII DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS 830 PUNCHBOWL STREET, ROOM 321

HONOLULU, HAWAII 96813 www.hawaii.gov/labor Phone: (808) 586-8844/Fax: (808) 586-9099

August 26, 2013

Ms. Colette Sakoda Senior Project Manager Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, HI 96813

Dear Ms. Sakoda:

This is in response to your request for comments dated August 21, 2013, for the City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application regarding the Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O'ahu, Hawai'i.

The Department of Labor and Industrial Relations has no comments, and we foresee no impact on our existing or proposed programs. Should you have any questions, please call me at 586-8844.

Sincerely,

lys the

DWIGHT TAKAMINE Director

cc: George I. Atta, FAICP - Attn: Steve Tagawa



LORETTA J. FUDDY, A.C.S.W., M.P.H. DIRECTOR OF HEALTH

STATE OF HAWAII DEPARTMENT OF HEALTH P. O. BOX 3378 HONOLULU, HI 96801-3378

August 28, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawii 96813

Dear Ms. Sakoda:

SUBJECT:Pre-Assessment Consultation for the City and County of Honolulu,
Department of Planning and Permitting Special Management Area Use Permit and Shoreline
Setback Variance Application for Hawaii Institute of Marine Biology,
Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

The Department of Health (DOH), Environmental Planning Office (EPO), acknowledges receipt of your letter dated August 21, 2013. Thank you for allowing us to review and comment on the subject document. The document was routed to the Department of Health's Clean Water and Wastewater Branches. They will provide specific comments to you if necessary. EPO recommends that you review the Standard Comments found on our website: http://health.hawaii.gov/epo/home/landuse-planning-review-program/. You are required to adhere to all Standard Comments specifically applicable to this application.

EPO suggests that you examine the many sources available on strategies to support the sustainable design of communities, including the:

- U.S. Environmental Protection Agency's report, "Creating Equitable, Health and Sustainable Communities: Strategies for Advancing Smart Grants, Environmental Justice, and Equitable Development" (Feb. 2013), http://www.epa.gov/smartgrowth/pdf/equitable-dev/equitable-development-report-508-011713b.pdf;
- U.S. Environmental Protection Agency's sustainability programs: www.epa.gov/sustainability;
- U.S. Green Building Council's LEED program: www.new.usgbc.org/leed; and
- World Health Organization, <u>www.who.int/hia</u>.

The DOH encourages everyone to apply these sustainability strategies and principles early in the planning and review of projects. We also request that for future projects you consider conducting a Health Impact Assessment (HIA). More information is available at www.cdc.gov/healthyplaces/hia.htm. We request you share all of this information with others to increase community awareness on sustainable, innovative, inspirational, and healthy community design.

We wish to receive notice of the environmental assessment's availability when it is completed. We request a written response confirming receipt of this letter and any other letters you receive from DOH in regards to this submission. You may mail your response to: 919 Ala Moana Blvd., Ste. 312, Honolulu, Hawaii 96814. However, we would prefer an email submission to <u>epo@doh.hawaii.gov</u>. We anticipate that our letter(s) and your response(s) will be included in the final document. If you have any questions, please contact me at (808) 586-4337.

Mahalo,

Laura Leialoha Phillips McIntyre, AIQ

Manager, Environmental Planning Office

in reply, please refer to: File:

13-168 Coconut Island **DEPARTMENT OF PARKS & RECREATION**

CITY AND COUNTY OF HONOLULU

1000 Uluohia Street, Suite 309, Kapolei, Hawaii 96707 Phone: (808) 768-3003 • Fax: (808) 768-3053 Website: www.honolulu.gov

KIRK CALDWELL MAYOR



August 29, 2013

TONI P. ROBINSON DIRECTOR

JEANNE C. ISHIKAWA DEPUTY DIRECTOR

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

Thank you for the opportunity to review and comment at the Pre-Assessment Consultation stage of the subject Special Management Area Use Permit and Shoreline Setback Variance Application related to the proposed Coconut Island Utility Rehabilitation/ Replacement Project.

The Department of Parks and Recreation has no comment. As the proposed project will have no impact on any program or facility of the Department, you may remove us as a consulted party to the balance of the EIS process.

Should you have any questions, please contact Mr. John Reid, Planner at 768-3017.

Sincerelv Toni P. Robinson Director

TPR:jr (528047)

cc: George Atta, Director, Department of Planning and Permitting



OFFICE OF PLANNING STATE OF HAWAII

235 South Beretania Street, 6th Floor, Honolulu, Hawaii 96813 Mailing Address: P.O. Box 2359, Honolulu, Hawaii 96804 NEIL ABERCROMBIE GOVERNOR

> JESSE K. SOUKI DIRECTOR OFFICE OF PLANNING

Telephone: (808) 587-2846 Fax: (808) 587-2824 Web: http:/planning.hawaii.gov/

Ref. No. P-14099

August 29, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for the City and County of Honolulu, Department of Planning and Permitting (DPP) Special Management Area (SMA) Use Permit and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii

The purpose of the proposed project is to provide the necessary updates and replacement of the existing sewer, communications, water, and electricity lines that serve Coconut Island, as well as to provide item maintenance and repairs to prevent failure of the existing infrastructure at the facility. We note that a supplemental Hawaii Revised Statutes (HRS) Chapter 343 Environmental Assessment (EA) will be prepared as part of the subject application process.

The Office of Planning (OP) at this time has the following comments to offer:

- The supplemental EA should include an assessment as to how the proposed project will conform to the Hawaii Coastal Zone Management (CZM) Act, HRS Chapter 205A, CZM objectives and their supporting policies. In particular, the subject application should discuss how the project will meet all the requirements of SMA use permit and shoreline setback variance, pursuant to Part II Special Management Areas, and Part III Shoreline Setbacks of HRS Chapter 205A. The subject application should address the site-specific mitigation measures to mitigate potential adverse environmental and ecological effects on coastal resources, taking into account potential cumulative effects.
- 2. The supplemental EA should consider climate change adaptation priority guidelines enacted by Act 286, Session Laws of Hawaii 2012, codified as HRS Section 226-109, in order to meet the CZM objectives and policies of reducing hazard to life and property from coastal hazards, including storm waves and shoreline erosion.

Ms. Colette Sakoda Page 2 August 29, 2013

> 3. If the proposed project requires a Department of the Army Permit from the U.S. Army Corps of Engineers, then a CZM federal consistency review may also be required. We suggest that you contact the Corps regarding their permit requirements for the subject project.

Please note that the planning department of the various counties is charged with assessing SMA use applications. Final decision-making is vested in the respective county planning commissions, or the county council with respect to SMA Use Permits and Shoreline Setback Variances in the City and County of Honolulu.

Thank you for initiating consultation at this early stage. We look forward to the opportunity to review the draft EA.

If you have any questions regarding this comment letter, please contact Leo Asuncion, Coastal Zone Management Program Manager, at 587-2846.

Sincerely, Jesse K./Souki Difector

c: Mr. George I. Atta,

Department of Planning and Permitting, City and County of Honolulu

DEPARTMENT OF COMMUNITY SERVICES CITY AND COUNTY OF HONOLULU

715 SOUTH KING STREET, SUITE 311 • HONOLULU, HAWAII 96813 • AREA CODE 808 • PHONE: 768-7762 • FAX: 768-7792

KIRK CALDWELL MAYOR



PAMELA A. WITTY-OAKLAND DIRECTOR

> GARY K. NAKATA DEPUTY DIRECTOR

August 30, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit (major) and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, Oahu, Hawaii

We have reviewed your letter dated August 21, 2013 and the information provided for the Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, Oahu, Hawaii.

Our review of the information provided indicates that the proposed improvements will have no adverse impacts on any Department of Community Services' activities or projects at this time.

Thank you for providing us the opportunity to comment on this matter.

Sincerely,

Pamela A. Witty-Oakland Director

PAW:sk

cc: Steve Tagawa, Department of Planning and Permitting City and County of Honolulu



PATRICIA McMANAMAN DIRECTOR

BARBARA A. YAMASHITA DEPUTY DIRECTOR

STATE OF HAWAII DEPARTMENT OF HUMAN SERVICES Benefit, Employment & Support Services Division 820 Mililani Street, Suite 606 Honolulu, Hawaii 96813

September 3, 2013

Refer to: CN13-0523

Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Subject: Pre Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, Oahu, Hawaii

Dear Ms. Sakoda:

Thank you for your letter dated August 21, 2013 that requests the Department of Human Services (DHS) review and comment on the proposed project that involves 1) utility line rehabilitation/replacement; 2) Re-routing existing gravity sewer line (on the north end of the island); 3) Sewage pump replacement and wetwell repairs; and 4) Lighthouse Pier restoration.

It is our understanding that the proposed project will be located on Coconut Island, the undersea bed of Kaneohe Bay and its environs. As there are no child care facilities on Coconut Island or in the immediate vicinity, the DHS has no comment at this time.

If you have any questions or need further information, please contact Ms. Jill Arizumi, Child Care Program Specialist, at (808) 586-5240.

Sincerely,

Xiert hakazon

Scott Nakasone Assistant Division Administrator

c: Patricia McManaman, Director George I. Atta, FAICP Attn: Steve Tagawa NEIL ABERCROMBIE GOVERNOR OF HAWAII



LORETTA J. FUDDY, A.C.S.W., M.P.H. DIRECTOR OF HEALTH

STATE OF HAWAII DEPARTMENT OF HEALTH P. O. BOX 3378 HONOLULU, HI 96801-3378

September 4, 2013

In reply, please refer to: EMD/CWB

09004PST.13

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Ema Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Comments on the Pre-Assessment Consultation for the Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Island of Oahu, Hawaii

The Department of Health (DOH), Clean Water Branch (CWB), acknowledges receipt of your letter, dated August 21, 2013, requesting comments on your project. The DOH-CWB has reviewed the subject document and offers these comments. Please note that our review is based solely on the information provided in the subject document and its compliance with the Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55. You may be responsible for fulfilling additional requirements related to our program. We recommend that you also read our standard comments on our website at: http://health.hawaii.gov/epo/files/2013/05/CWB-standardcomment.pdf.

- 1. Any project and its potential impacts to State waters must meet the following criteria:
 - a. Antidegradation policy (HAR, Section 11-54-1.1), which requires that the existing uses and the level of water quality necessary to protect the existing uses of the receiving State water be maintained and protected.
 - b. Designated uses (HAR, Section 11-54-3), as determined by the classification of the receiving State waters.
 - c. Water quality criteria (HAR, Sections 11-54-4 through 11-54-8).
- 2. You may be required to obtain a National Pollutant Discharge Elimination System (NPDES) permit for discharges of wastewater, including storm water runoff, into State surface waters (HAR, Chapter 11-55). An application for an NPDES individual permit must be submitted at least 180 calendar days before the commencement of the discharge. To request NPDES permit coverage, you must submit the CWB Individual NPDES Form through the e-Permitting Portal and the hard copy certification statement with \$1,000 filing fee. Please open the <u>e-Permitting</u>

Ms. Colette Sakoda September 4, 2013 Page 2

<u>Portal</u> website at: <u>https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx</u>. You will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool and locate the "CWB Individual NPDES Form." Follow the instructions to complete and submit this form.

3. If your project involves work in, over, or under waters of the United States, it is highly recommend that you contact the Army Corp of Engineers, Regulatory Branch (Tel: 438-9258) regarding their permitting requirements.

Pursuant to Federal Water Pollution Control Act [commonly known as the "Clean Water Act" (CWA)], Paragraph 401(a)(1), a Section 401 Water Quality Certification (WQC) is required for "[a]ny applicant for Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may **result** in any discharge into the navigable waters..." (emphasis added). The term "discharge" is defined in CWA, Subsections 502(16), 502(12), and 502(6); Title 40 of the Code of Federal Regulations, Section 122.2; and Hawaii Administrative Rules (HAR), Chapter 11-54.

4. Please note that all discharges related to the project construction or operation activities, whether or not NPDES permit coverage and/or Section 401 WQC are required, must comply with the State's Water Quality Standards. Noncompliance with water quality requirements contained in HAR, Chapter 11-54, and/or permitting requirements, specified in HAR, Chapter 11-55, may be subject to penalties of \$25,000 per day per violation.

If you have any questions, please visit our website at: <u>http://health.hawaii.gov/cwb</u>, or contact the Engineering Section, CWB, at (808) 586-4309.

Sincerely,

lu Dor ALEC WONG, P.E., CH

Clean Water Branch

ST:jst

c: DOH-EPO [via email only] Mr. George I. Atta, CCH-DPP

DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 11TH FLOOR HONOLULU, HAWAII 96813 Phone: (808) 768-8480 • Fax: (808) 768-4567 Web site: <u>www.honolulu.gov</u>

KIRK CALDWELL MAYOR



CHRIS T. TAKASHIGE, P.E., CCM DIRECTOR

> MARK YONAMINE, P.E. DEPUTY DIRECTOR

September 6, 2013

Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Attn: Colette Sakoda

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation / Replacement Project in Kaneohe, Oahu, Hawaii

The Department of Design and Construction does not have comments to offer on the pre-assessment consultation.

Thank you for the opportunity to review and comment. Should there be any questions, please contact me at 768-8480.

Sincerely,

fr M. ymann

Chris T. Takashige, P.E., CCM Director

CTT: cf (527942)

Cc: Department of Planning and Permitting

HONOLULU FIRE DEPARTMENT

CITY AND COUNTY OF HONOLULU

636 South Street Honolulu, Hawaii 96813-5007 Fax: 808-723-7111 Internet: www.honolulu.gov/hfd

Phone: 808-723-7139

KIRK CALDWELL MAYOR



MANUEL P. NEVES FIRE CHIEF

LIONEL CAMARA JR. DEPUTY FIRE CHIEF

September 9, 2013

Ms. Colette Sakoda Senior Project Manager Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Preassessment Consultation Special Management Area Use Permit (Major) and Shorline Setback Variance Application Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, Oahu, Hawaii

In response to your letter of August 21, 2013, regarding the above-mentioned subject, the Honolulu Fire Department determined that there will be no significant impact to fire department services.

Should you have questions, please contact Battalion Chief Socrates Bratakos of our Fire Prevention Bureau at 723-7151 or sbratakos@honolulu.gov.

Sincerely,

ROLLAND J. HARVEST Assistant Chief

MPN/SY:bh

cc: George Atta, Department of Planning and Permitting

POLICE DEPARTMENT

CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET · HONOLULU, HAWAII 96813 TELEPHONE: (808) 529-3111 · INTERNET: www.honolulupd.org

KIRK W. CALDWELL MAYOR

OUR REFERENCE WK-WS



LOUIS M. KEALOHA CHIEF

DAVE M. KAJIHIRO MARIE A. MCCAULEY DEPUTY CHIEFS

September 10, 2013

Ms. Colette Sakoda Senior Project Manager Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

This is in response to your letter dated August 21, 2013, requesting comments on the Pre-Assessment Consultation for the City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance application for the proposed utility rehabilitation/replacement at Coconut Island, Kaneohe, O'ahu.

The Honolulu Police Department has no concerns at this time.

If there are any questions, please contact Major John McEntire of District 4 (Kaneohe) at 723-8639 or via e-mail at imcentire@honolulu.gov.

Sincerely,

LOUIS M. KEALOHA Chief of Police

By CLAY

Assistant Chief Support Services Bureau

cc: Mr. George I. Atta, DPP



DEPARTMENT OF THE ARMY HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS FORT SHAFTER, HAWAII 96858-5440

September 10, 2013

Regulatory Branch

File Number POH-2013-00155

Community Planning and Engineering, Inc. Attention: Colette Sakoda 1286 Queen Emma Street Honolulu, Hawaii 96813

PERMIT REQUIRED

Dear Ms. Sakoda:

This responds to your August 21, 2013 letter requesting the Department of the Army (DA) comments for a draft Environmental Assessment (EA) prepared for the proposed Coconut Island Utility Rehabilitation / Replacement project at Coconut Island, Kaneohe, Oahu Isle, Hawaii. Reference number **POH-2013-00155** is assigned this project. Please cite this reference number in any future correspondence concerning this project.

We have completed review of the information submitted pursuant to our authorities under Section 10 of the Rivers and Harbors Act of 1899 (Section 10) and Section 404 of the Clean Water Act (Section 404). For your information, Section 10 requires that a DA permit be obtained from the U.S. Army Corps of Engineers (Corps) prior to undertaking any construction, dredging, or other activity occurring in, over, or under or affecting navigable waters of the U.S. For tidal waters, the shoreward limit of the Corps' jurisdiction extends to the Mean High Water Mark. Section 404 requires that a DA permit be obtained for the discharge (placement) of dredged and/or fill material into waters of the U.S., including wetlands. For tidally influenced waters, in the absence of adjacent wetlands, the shoreward limit of the Corps' jurisdiction extends to the High Tide Line, which in Hawai'i may be approximated by reference to the Mean Higher High Water Mark. For non-tidal waters, the lateral limits of the Corps' jurisdiction extend to the Ordinary High Water Mark or the approved delineated boundary of any adjacent wetlands.

Based on the information you submitted, we have determined the proposed project would involve work and/or the discharge of dredged and/or fill material in Kaneohe Bay, a navigable water of the U.S.; **therefore, a DA permit is required**. This determination does not relieve you of the responsibility to obtain any other permits, licenses, or approvals that may be required under County, State, or Federal law for your proposed work.

Thank you for contacting us regarding this project and providing us with the opportunity to comment. Should you have any questions, please contact Ms. Joy Anamizu at 808-835-4308 or via e-mail at *Joy.N.Anamizu@usace.army.mil.*

Sincerely,

Jon Ps

George P. Young, P.E. Chief, Regulatory Branch



DISABILITY AND COMMUNICATION ACCESS BOARD

919 Ala Moana Boulevard, Room 101 • Honolulu, Hawaii 96814 Ph. (808) 586-8121 (V/TDD) • Fax (808) 586-8129

September 11, 2013

Colette Sakoda Community Planning and Engineering, Inc 1286 Queen Emma Street Honolulu, HI 96813

> Regarding: University of Hawaii - Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting Special Management Area Use Permit and Shoreline Setback Variance

Dear Colette Sakoda,

The Disability and Communication Access Board (DCAB) would like to thank you for the opportunity to review the Coconut Island Utility Rehabilitation / Replacement Project. The purpose of this review is to ensure that this project will take into account accessibility design requirements for persons with disabilities.

The following general statement should be included in the Coconut Island Utility Rehabilitation / Replacement Project:

"All buildings, facilities, and sites shall conform to applicable federal, state, and county accessibility guidelines and standards. Hawaii Revised Statutes §103-50 requires all State of Hawaii or County government buildings, facilities, and sites to be designed and constructed to conform to the Americans with Disabilities Act Accessibility Guidelines, the Federal Fair Housing Amendments Act, and other applicable design standards as adopted and amended by the Disability and Communication Access Board. The law further requires all plans and specifications prepared for the construction of State of Hawaii or County government buildings, facilities, and sites to be reviewed by the Disability and Communication Access Board for conformance to those guidelines and standards."

The above reflects the Disability and Communication Access Board's advice and recommendations for the Coconut Island Utility Rehabilitation / Replacement Project.

Should you have any further questions, feel free to contact Curtis Motoyama, Facility Access Coordinator at (808) 586-8121.

Sincerely,

vanune War

FRANCINE WAI Executive Director

George Atta, FAICP Attn: Steve Tagawa City and County of Honolulu Department of Planning and Permitting 650 South King Street, 7th Floor Honolulu, HI 96813

C:

NEIL ABERCROMBIE GOVERNOR OF HAWAII



WILLIAM J. AHLA, JR. CHARPERSON BOARD OF LAND AND NATURAL RESOURCES COMMESSION ON WATER RESOURCE MANAGEMENT



STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION

> POST OFFICE BOX 621 HONOLULU, HAWAII 96809

September 12, 2013

Community Planning and Engineering, Inc. Attention: Ms. Colette Sakoda 1286 Queen Emma Street Honolulu, Hawai`i 96813

City and County of Honolulu Department of Planning and Permitting Attention: Mr. Steve Tagawa 650 South King Street, 7th Floor Honolulu, Hawaii 96813

via email: <u>stagawa@honolulu.gov</u>

Dear Ms. Sakoda and Mr. Tagawa:

SUBJECT: Hawaii Institute of Marine Biology; Coconut Island Rehabilitation / Replacement Project

Thank you for the opportunity to review and comment on the subject matter. The Department of Land and Natural Resources' (DLNR) Land Division distributed or made available a copy of your report pertaining to the subject matter to DLNR Divisions for their review and comments.

At this time, enclosed are comments from the (a) Land Division – Oahu District, (b) Engineering Division, (c) Commission on Water Resources Management, and (d) Office of Conservation and Coastal Lands on the subject matter. Should you have any questions, please feel free to call Lydia Morikawa at 587-0410. Thank you.

Sincerely,

Russell Y. Tsuji Land Administrator

Enclosure(s) cc: Central Files

1n





-14-29 RECEIVED AND DIVISION 2013 SEP -4 AM 10: 58

WILLIAM J. AILA, JR. CHARPERSON FIOARD OLLAND AND NA DPRAUR/SOURCES MMISSION OF WALLER RESOURCE MANAGEMENT COMMIS **HARRING MARK**

A 8:40

油日 416 26 DEPT. OF LAND & STATE OF HAWAII 2013 AUG HATURDEPAREOUROP LAND AND NATURAL RESOURCES LAND DIVISION MATH STATE OF HAWAN

POST OFFICE BOX 621 HONOLULU, HAWAII 96809

August 22, 2013

MEMORANDUM

DLNR Agencies:

- X Div. of Aquatic Resources X Div. of Boating & Ocean Recreation X Engincering Division
- X Div. of Forestry & Wildlife Div. of State Parks
- X Commission on Water Resource Management
- X Office of Conservation & Coastal Lands
- X Land Division Oahu District
- X Historic Preservation



POV: SUBJECT:

Russell Y. Tsuji, Land Administrator

Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project Coconut Island, Kaneohe, O'ahu. Hawai'i

LOCATION: APPLICANT:

Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 12, 2013. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

()	We have no objections.	
(,)	We have no comments.	
(X)	Comments are attached.	
Signed	Ley "	
Print Name:	ALEX ROY	
Date:	SEP - 2 2013	

c: Central Files

NEIL ABERCROMBIE GOVERNOR OF HAWAII





WILLIAM J. AILA, JR. CIARPERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

> ESTHER KIA'AINA FIRST DEPUTY

WILLIAM M. TAM DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES BOATING AND GCEAN RECREATION BUREAU OF CONVEYANCES COMMISSION ON WATER RESOURCE MANAGEMENT CONSERVATION AND RESOURCES ENFORCEMENT ENGINEERING FORESTRY AND WILDLIFE HISTORIC FRESERVATION KAIROOLAWE ISLAND RESERVE COMMISSION LAND STATE PARKS

OFFICE OF CONSERVATION AND COASTAL LANDS POST OFFICE BOX 621 HONOLULU, HAWAII 96809

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

REF: OCCL: AJR

MEMORANDUM

- **TO:** Russell Y. Tsuji, Administrator *DLNR – Land Division*
- **FROM:** Samuel J. Lemmo, Administrator DLNR – Office of Conservation and Coastal Lands
- SUBJECT: PRE-ASSESSMENT CONSULTATION FOR CITY AND COUNTY OF HONOLULU DEPARTMENT OF PLANNING AND PERMITTING (DPP) SPECIAL MANAGEMENT AREA USE PERMIT (MAJOR) (SMP) AND SHORELINE SETBACK VARIANCE (SSV) APPLICATION Ko'olaupoko District, Kaneohe Bay, Coconut Island, Island of Oahu TMKs: (1) 5-4-005:001 and (1) 5-4-005:002

The Office of Conservation and Coastal Lands (OCCL) is in receipt of a request for comments on the proposed improvements to the Hawaii Institute of Marine Biology (HIMB) facility situated on Coconut Island, Kaneohe Bay, Oahu. A previous correspondence from the OCCL, dated *September 26, 2012*, addressed these proposed improvements and provided an outline of the process necessary to apply for land uses in the Conservation District; a copy of that correspondence (COR: OA-13-19) is attached.

Please review the attached correspondence; should you have any questions please contact Atex J. Roy, M.Sc. of the Office of Conservation and Coastal Lands staff at 808-587-0316 or via email at <u>alex.j.roy@hawaii.gov</u>

Thank you.

Attachment: COR: OA-13-19

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OR: 0A-14-29 SEP - 2 2013

NEIL ABERCROMBIE GOVERNOR OF HAWAII





STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES OFFICE OF CONSERVATION AND COASTAL LANDS POST OFFICE BOX 621 HONOLULU, HAWAII 96809 WILLIAM J. AILA, JR. CHARFERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

> PAUL J. CONRY INTERIM FIRST DEPUTY

WILLIAM M. TAM DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES BOATING AND OCEAN RECREATION BUREAU OF CONVEY ANCES COMMISSION ON WATER RESOURCE MANAGEMENT CONSERVATION AND RESOURCES ENFORCEMENT CONSERVATION AND RESOURCES ENFORCEMENT ENGINEERING FORESTRY AND WILDLIFFE HISTORIC PRESERVATION KAHOOLAWE ISLAMD RESERVE COMMISSION LAND STATE PARKS

Correspondence: OA 13-19

REF:OCCL:TM

Puna Kaneakua Community Planning and Engineering, Inc. 1100 Alakea, 6th Floor Honolulu, HI 96813

SEP 2 6 2012

SUBJECT: Rehabilitation/Replacement of Utilities and Facilities Located at the Hawaii Institute of Marine Biology (HIMB), Moku O Lo'e, Kaneohe Bay, Oahu, TMKs: (1) 4-6-001:001 & 051

Dear Puna Kaneakua:

The Office of Conservation and Coastal Lands (OCCL) has reviewed your memorandum regarding the subject matter and offer the following regarding each proposed improvement:

A. Replacing Existing Utilities: Existing utilities would be abandoned in place and new utility (sewer, water, electrical and communication) crossings would be installed by either laying utilities on the bottom of the bay or by horizontal directional drilling. As it appears the existing alignment will not be utilized, this would be considered a new land use.

This proposed use would require the filing of a Conservation District Use Application (CDUA) for the routing of new utility lines whether laying on the bottom of the bay or via directional drilling pursuant to the Hawaii Administrative Rules (HAR), §13-5-22 P-8 (D-1) Major alteration of existing structures, facilities, uses, and equipment, or topographical features which are different from the original use or different from what was allowed under the original permit. When county permit(s) are required for the associated plan(s), the department's approval shall also be required. This would require a Board permit.

B. Re-routing Existing Gravity Sewer.

It is unclear how the gravity sewer line would be re-routed. As this would be a new route, this proposed use probably could be done concurrently under the same CDUA as discussed in A.

C. Sewer Pump Replacement & Wet Well Repairs: The exiting pumps will be replaced with new pumps and the wet well interior will be re-lined.

Puna Kaneakua Community Planning and Engineering, Inc.

HIMB remains responsible for compliance with Chapter 343, HRS as necessary and compliance with other State, Federal, or County authorizations whether a CDUP is required or not. Should you have questions regarding this correspondence or would like to schedule a meeting, contact Tiger Mills of our Office of Conservation and Coastal Lands at 587-0382.

Sincerely,

Samuel J. Lemine, Administrator Office of Conservation and Coastal Lands

c: Chairperson ODLO/DAR/OHA County of Honolulu-DPP DOA/NOAA NEIL ABERCROMBIE GOVERNOR OF HAWAH

nd and



WILLIAM J. AILA, JR. CDARD94800 ROARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION

POST OFFICE BOX 621 HONOLULU, HAWAII 96809

August 22, 2013

MEMORANDUM

TO:	DLNR Agencies:
	X Div. of Aquatic Resources
	<u>X</u> Div. of Boating & Ocean Recreation
	X Engineering Division
	X Div. of Forestry & Wildlife
	Div. of State Parks
	<u>X</u> Commission on Water Resource Management
	X Office of Conservation & Coastal Lands
	X Land Division – Oahu District
	X Historic Preservation
	\frown
FROM: /	Russell Y. Tsuji, Land Administrator
SUBJECT:	Pre-Assessment Consultation for City and County of Honolulu Department of
	Planning and Permitting (DPP) Special Management Area Use Permit (major)
	(SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of
	Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project
LOCATION:	Coconut Island, Kaneohe, O'ahu. Hawai'i
APPLICANT:	Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine
	Biology

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 12, 2013. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

We have no objections.
We have no comments.
Comments are attached.

Signed: Print Name: Date: approval 3 represted to adrise us it the which this in the arbitrard land was have land disport

c: Central Files

NEIL ABERCROMBIE **OVERNOR OF HAWA**



*13 AUG 23 PM02:42 ENGINEERING WILLIAM J. AH.A, JR. CHARDPRESON BOARD J AND AND NA DRAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAH DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION

POST OFFICE BOX 621 HONOLULU, HAWAII 96809

August 22, 2013

MEMORANDUM

DO: PROM? **DLNR Agencies:** X Div. of Aquatic Resources X Div. of Boating & Ocean Recreation X Engineering Division X Div. of Forestry & Wildlife

283

FROM: SUBJECT:

Russell Y. Tsuji, Land Administrator

X Land Division - Oahu District

X Commission on Water Resource Management X Office of Conservation & Coastal Lands

Div. of State Parks

X Historic Preservation

Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project Coconut Island, Kaneohe, O'ahu. Hawai'i

LOCATION: APPLICANT:

Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 12, 2013. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

() () (-)	We have no objections. We have no comments. Comments are attached.				
Signed:	ant				
Print Name: /Carty S. Chang. Chief Engineer					
Date: $3/27$					

c: Central Files

DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION

LD/ Russell Y. Tsuji

REF: Pre-Assessment Consultation for C & C of Honolulu Department of Planning and Permitting SMA Use Permit (Major) and SSV Applications for Hawaii Institute of Marine Biology, Coconut Island Utility Rehab./Replace. Proj. Oahu.017

COMMENTS

- () We confirm that the project site, according to the Flood Insurance Rate Map (FIRM), is located in Flood Zone ____.
- () Please take note that the project site according to the Flood Insurance Rate Map (FIRM), is located in Zone ____.
- () Please note that the correct Flood Zone Designation for the project site according to the Flood Insurance Rate Map (FIRM) is _____.
- () Please note that the project must comply with the rules and regulations of the National Flood Insurance Program (NFIP) presented in Title 44 of the Code of Federal Regulations (44CFR), whenever development within a Special Flood Hazard Area is undertaken. If there are any questions, please contact the State NFIP Coordinator, Ms. Carol Tyau-Beam, of the Department of Land and Natural Resources, Engineering Division at (808) 587-0267.

Please be advised that 44CFR indicates the minimum standards set forth by the NFIP. Your Community's local flood ordinance may prove to be more restrictive and thus take precedence over the minimum NFIP standards. If there are questions regarding the local flood ordinances, please contact the applicable County NFIP Coordinators below:

- () Mr. Mario Siu Li at (808) 768-8098 or Ms. Ardis Shaw-Kim at (808) 768-8296 of the City and County of Honolulu, Department of Planning and Permitting.
- () Mr. Frank DeMarco at (808) 961-8042 of the County of Hawaii, Department of Public Works.
- () Mr. Carolyn Cortez at (808) 270-7813 of the County of Maui, Department of Planning.
- () Mr. Stanford Iwamoto at (808) 241-4884 of the County of Kauai, Department of Public Works.
- () The applicant should include project water demands and infrastructure required to meet water demands. Please note that the implementation of any State-sponsored projects requiring water service from the Honolulu Board of Water Supply system must first obtain water allocation credits from the Engineering Division before it can receive a building permit and/or water meter.
- () The applicant should provide the water demands and calculations to the Engineering Division so it can be included in the State Water Projects Plan Update.
- () Additional Comments:

(X) Other: The National Flood Insurance Program (NFIP) does not designate a flood zone for the project site.

Should you have any questions, please call Mr. Dennis Imada of the Planning Branch at 587-0257.

Signed:	ant
	CARTY S/CHANG/CHIEF ENGINEER
Date:	3/21/13

NEIL ABERCROMBIE TOVERNOR OF HAWA





WILLIAM J. AILA, JR. CHARDERSON BOARD OF LAND AND NATURAL RESOURCES MMISSION ON WATTER RESOURCE MANAGEMENT

STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION

POST OFFICE BOX 621 HONOLULU, HAWAII 96809

August 22, 2013

MEMORANDUM

DLNR Agencies: X Div. of Aquatic Resources X Div. of Boating & Ocean Recreation X Engineering Division X Div. of Forestry & Wildlife Div. of State Parks X Commission on Water Resource Management X Office of Conservation & Coastal Lands

X Historic Preservation

Russell Y. Tsuji, Land Administrator

X Land Division - Oahu District

FROM: SUBJECT:

LOCATION: APPLICANT:

(SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project Coconut Island, Kaneohe, O'ahu. Hawai'i

Community Planning and Engineering, Inc. on behalf of Hawaii Institute of Marine Biology

Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major)

Transmitted for your review and comment on the above-referenced document. We would appreciate your comments on this document.

Please submit any comments by September 12, 2013. If no response is received by this date, we will assume your agency has no comments. If you have any questions about this request, please contact Supervising Land Agent Steve Molmen at (808) 587-0439. Thank you.

Attachments

We have no objections. We have no comments. Comments are attached.

Signed: w! Print Name: Date:

c: Central Files

NEIL ABERCROMBIE GOVERNOR GLENN M. OKIMOTO DIRECTOR

Deputy Directors JADE T. BUTAY FORD N. FUCHIGAMI RANDY GRUNE JADINE URASAKI

IN REPLY REFER TO: STP 8.1313



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION 869 PUNCHBOWL STREET HONOLULU, HAWAII 96813-5097

September 12, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology (HIMB)
 Coconut Island Utility Rehabilitation/Replacement Project
 Pre-Assessment Consultation Special Management Area Use Permit (Major)
 (SMP), Shoreline Setback Variance (SSV) Applications and Supplemental
 Environmental Assessment (SEA)
 TMK: (1) 4-6-001:051 and 001

Thank you for requesting the State Department of Transportation's (DOT) review of the subject project. DOT understands that HIMB proposes to provide needed maintenance upgrades and/or replacement of the existing utilities and infrastructures at Coconut Island. Access to the project will be from Lilipuna Road (for workers) via shuttle boat and from a commercial harbor (for heavy equipment and materials).

Given the project location and the nature of the project, it is not expected to significantly impact State highway facilities. However, HIMB is required to obtain a permit from DOT Highways Division for the transport of oversized and/or overweight materials and equipment on State highway facilities. Ms. Colette Sakoda September 12, 2013 Page 2

DOT appreciates the opportunity to provide comment. If there are any questions or need to meet with DOT staff, please contact Mr. Norren Kato of the DOT Statewide Transportation Planning Office at telephone number (808) 831-7977.

Very truly yours,

minuch

GLENN M. OKIMOTO, Ph.D. Director of Transportation

c: Steve Tagawa, City and County of Honolulu, Department of Planning and Permitting)

STP 8.1313

DEPARTMENT OF ENVIRONMENTAL SERVICES CITY AND COUNTY OF HONOLULU

1000 ULUOHIA STREET, SUITE 308, KAPOLEI, HAWAII 96707 TELEPHONE: (808) 768-3486 ● FAX: (808) 768-3487 ● WEBSITE: http://envhonolulu.org

KIRK CALDWELL MAYOR



LORI M.K. KAHIKINA, P.E. DIRECTOR

TIMOTHY A. HOUGHTON DEPUTY DIRECTOR

ROSS S. TANIMOTO, P.E. DEPUTY DIRECTOR

IN REPLY REFER TO PRO 13-078

September 13, 2013

Collette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application, Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project, Kaneohe, O'ahu, Hawai'i

The City and County (CCH) of Honolulu Department of Environmental Services (ENV) has reviewed your letter dated August 21, 2013. We have the following comments:

- 1. For your information, there have been five capacity/wet weather related sanitary sewer overflows (SSOs) downstream of the Coconut Island force main connection to the CCH sewer system since 1999.
- 2. The following comments are in regards to the wastewater pump station and force main connection to the CCH sewer system:
 - a. The proposed peak flow from one of the replaced pumps should be limited to a flow capacity that ENV will accept.
 - b. The pump controls for the replacement pumps should be configured so that two pumps can never be turned on at the same time.
 - c. Upon completion of the pump replacement, we request a flow test report, signed by a Professional Engineer, which correlates flow rate to running pump time. The running pump time may then be used for billing purposes.

Collette Sakoda September 13, 2013 Page 2

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If you have any questions or require additional information, please call Jack Pobuk, Program Coordinator, at 768-3464. Thank you for your consideration of this matter.

Sincerely,

Lori M.K. Kahikina, P.E.

Director

cc: Department of Planning and Permitting

DEPARTMENT OF FACILITY MAINTENANCE

CITY AND COUNTY OF HONOLULU

1000 Ulu`ohia Street, Suite 215, Kapolei, Hawaii 96707 Phone: (808) 768-3343 • Fax: (808) 768-3381 Website: www.honolulu.gov

KIRK CALDWELL MAYOR



ROSS S. SASAMURA, P.E. DIRECTOR AND CHIEF ENGINEER

> EDUARDO P. MANGLALLAN DEPUTY DIRECTOR

> > IN REPLY REFER TO: DRM 13-806

September 13, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, O'ahu, Hawai'i

Thank you for the letter dated August 21, 2013, regarding the pre-assessment consultation for the subject project. The City does not have any drainage facilities on Coconut Island.

If you have any questions, please call Thomas Takeuchi of the Division of Road Maintenance, at 768-3608.

Sincerely,

Ross S. Sasamura, P.E. Director and Chief Engineer

NEIL ABERCROMBIE GOVERNOR



GENEVIEVE SALMONSON INTERIM DIRECTOR

STATE OF HAWAI'I OFFICE OF ENVIRONMENTAL QUALITY CONTROL Department of Health

235 South Beretania Street, Suite 702 Honolulu, Hawai'i 96813 Telephone (808) 586-4185 Facsimile (808) 586-4186 Email: oeqchawaii@doh.hawaii.gov

September 13, 2013

Ms. Collette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813

> SUBJECT: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, O'ahu, Hawai'i

Dear Ms. Sakoda:

The Office of Environmental Quality Control is in receipt of your August 21, 2013, relating to the subject topic. OEQC understands that your proposed rehabilitation and improvements to sewage infrastructure at Coconut Island require an SMA use permit and a Shoreline Setback Variance. The project triggers the Hawaii Environmental Policy Act, Chapter 343, HRS, and you seek comments in terms of potential environmental impacts and other issues we could identify with the project.

After review of your letter and the attached site plan, OEQC offers these comments:

1. Your letter states that a supplemental environmental assessment (EA) will be prepared for the project. Please be informed that Chapter 343, Hawaii Revised Statutes, and Chapter 11-200, Hawaii Administrative Rules, does not prescribe any procedures for a supplemental EA; the supplemental process applies only to environmental impact statements.
Ms. Sakoda September 13, 2013 Page **2** of **2**

> Your mention of a supplemental EA suggests that an EA was prepared for Coconut Island in the past. HAR §11-200-13, allows the consideration of determinations and acceptances from previous studies when applicable and appropriate. So if this action requires an environmental assessment, then a new EA should be prepared, incorporating previous studies by reference, in whole, or in part.

Thank you for the opportunity to comment on your project. Feel free to contact Herman Tuiolosega at (808) 586-4185 if you have further questions.

Sincerely,

neview Salmon

GÉNEVIEVE SALMONSON Interim Director

cc: George I. Atta, FAICP

DEPARTMENT OF TRANSPORTATION SERVICES CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 3RD FLOOR HONOLULU, HAWAII 96813 Phone: (808) 768-8305 • Fax: (808) 768-4730 • Internet: www.honolulu.gov



MICHAEL D. FORMBY DIRECTOR

MARK N. GARRITY, AICP DEPUTY DIRECTOR

TP8/13-528107R

KIRK CALDWELL MAYOR

September 16, 2013

Ms. Colette Sakoda Planner Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Biology, Coconut Island Utility Rehabilitation/Replacement Project; Kaneohe, Oahu, Hawaii

In response to your letter dated August 21, 2013, we have no comments to offer at this time.

We reserve further comment pending submission of the Draft Environmental Assessment (DEA).

Thank you for the opportunity to review this matter. Should you have any further questions, please contact Michael Murphy of my staff at 768-8359.

Very truly yours,

Director

cc: Mr. George Atta, Director Attention: Mr. Steve Tagawa Department of Planning and Permitting DEPARTMENT OF PLANNING AND PERMITTING CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET, 7TH FLOOR • HONOLULU, HAWAII 96813 PHONE: (808) 768-8000 • FAX: (808) 768-6041 DEPT. WEB SITE: <u>www.honoluludpp.org</u> • CITY WEB SITE: <u>www.honolulu.gov</u>

KIRK CALDWELL MAYOR



GEORGE I. ATTA, FAICP DIRECTOR

ARTHUR D. CHALLACOMBE DEPUTY DIRECTOR

2013/ELOG-1638(ST) 2007/SMA-3 2007/SV-2

September 17, 2013

Ms. Colette Sakoda Senior Project Manager Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

SUBJECT: Pre-Assessment Consultation for Renovation/Rehabilitation Project Coconut Island - Hawaii Institute of Marine Biology (HIMB) Special Management Area Use Permit, No. 2007/SMA-3 Shoreline Setback Variance, No. 2007/SV-2 Tax Map Key: 4-6-1: 1 and 51

This responds to your letter, received on August 22, 2013, requesting comments on the preparation of a forthcoming supplemental environmental assessment for proposed improvements at the HIMB Coconut Island research facility.

- 1) <u>Utility line rehabilitation/replacement</u>: As we stated in our letter dated January 17, 2013, an Special Management Area Use Permit (SMP) and Shoreline Setback Variance (SV) will be required for the proposed installation of a new utility conduit which, although begins at the same location at Lilipuna Pier, will follow a new alignment and "land" at a new location on the Island. The construction details for the new landing should be clearly described and include a thorough discussion of proposed mitigation measures intended to minimize potential impacts to the surrounding shoreline and near-shore ecosystems.
- 2) <u>Re-routing Existing Gravity Sewer</u>: The rerouting of sewer lines on the north side of the island, including the abandonment of above-grade segments should be clearly described. Although the installation of underground utilities within an existing easement is exempt from SMA requirements pursuant to Section 25-1.3(2)(M), Revised Ordinances of Honolulu, the rerouting should be included in the forthcoming SMP application.

Should you have any questions, please contact Steve Tagawa of our staff at 768-8024.

Very truly yours,

Endis Selen

George I. Atta, FAICP Director

GIA:nw

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU 630 SOUTH BERETANIA STREET HONOLULU, HI 96843



KIRK CALDWELL, MAYOR

DUANE R. MIYASHIRO, Chairman MAHEALANI CYPHER, Vice Chair THERESIA C. McMURDO ADAM C. WONG DAVID C. HULIHEE

ROSS S. SASAMURA, Ex-Officio GLENN M. OKIMOTO, Ex-Officio

ERNEST Y. W. LAU, P.E. Manager and Chief Engineer

ELLEN E. KITAMURA, P.E. Deputy Manager and Chief Engineer

Ms. Colette Sakoda Senior Project Engineer Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Your Letter Dated August 21, 2013 Regarding the Pre-Assessment Consultation for the Special Management Area Use Permit (major) and Shoreline Setback Variance Application: Hawaii Institute of Marine Biology, Coconut Island Utility Rehabilitation/Replacement Project - Tax Map Key: 4-6-001:001, 051

Thank you for your letter regarding the proposed Coconut Island Utility Rehabilitation/Replacement Project.

The existing water system is adequate to accommodate the proposed project. However, please be advised that this information is based upon current data, and therefore, the Board of Water Supply reserves the right to change any position or information stated herein up until the final approval of the building permit application. The final decision on the availability of water will be confirmed when the building permit application is submitted for approval.

When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The on-site fire protection requirements should be coordinated with the Fire Prevention Bureau of the Honolulu Fire Department.

If you have any questions, please contact Robert Chun at 748-5443.

Very truly yours,

ERNEST Y. W. LAU, P.E. Manager and Chief Engineer

cc: George I. Atta, Department of Planning and Permitting - Attn: Steve Tagawa

NEIL ABERCROMBIE GOVERNOR



Dean H. Seki Comptroller

Maria E. Zielinski Deputy Comptroller

STATE OF HAWAII DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES P.O. BOX 119, HONOLULU, HAWAII 96810-0119

SEP 1 9 2013

(P)1210.3

Ms. Colette Sakoda, Senior Project Manager Community Planning and Engineering Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation/Replacement Project Kaneohe, Oahu, Hawaii

Thank you for the opportunity to provide comments for the subject project. This project does not impact any of the Department of Accounting and General Services' projects or existing facilities in this area and we have no comments to offer at this time.

If you have any questions, please call me at 586-0400 or have your staff call Mr. Alva Nakamura of the Public Works Division at 586-0488.

Sincerely,

DEAN H. SEKI Comptroller

c: Mr. Steve Tagawa, City and County of Honolulu, Dept. of Planning and Permitting Mr. George I. Atta, Group 70 International NEIL ABERCROMBIE GOVERNOR

MAJOR GENERAL DARRYLL D. M. WONG DIRECTOR OF CIVIL DEFENSE

DOUG MAYNE VICE DIRECTOR OF CIVIL DEFENSE





STATE OF HAWAII DEPARTMENT OF DEFENSE OFFICE OF THE DIRECTOR OF CIVIL DEFENSE 3949 DIAMOND HEAD ROAD HONOLULU, HAWAII 96816-4495

September 24, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Pre-Assesment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shorline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island <u>Utility Rehabilitation/ Replacement Project Kaneohe, Oahu, Hawaii</u>

Thank you for the opportunity to respond to this proposed project. This agency recommends that a Federal Signal Corp. Informer Unit be installed in a primary building to provide early warning in the event of an impending natural hazard. The unit requires electrical and internet connectivity and has the option of being connected to an outside speaker.

If you have any questions, please call Mr. Ian Duncan, State Hazard Mitigation Officer, at 733-4300, extension 555.

Sincerely,

DOUG MAYNE Vice Director of Civil Defense

c: HIENG



September 25, 2013

Ms. Colette Sakoda Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawaii 96813

Dear Ms. Sakoda:

Subject: Pre-Assessment Consultation for City and County of Honolulu Department of Planning and Permitting (DPP) Special Management Area Use Permit (major) (SMP) and Shoreline Setback Variance (SSV) Application: Hawaii Institute of Marine Biology Coconut Island Utility Rehabilitation / Replacement Project Kaneohe, Oʻahu, Hawaiʻi

In response to your letter dated August 21, 2013, it has been determined that the area is currently clear of utility gas facilities.

Thank you for the opportunity to review the map. Should there be any questions, or if additional information is desired, please feel free to call Jared Pasalo at 594-5008.

Sincerely,

HAWAI'IGAS

Mith to them

Keith K. Yamamoto Manager, Engineering

KKY:krs 13-180

APPENDIX D BIOLOGICAL RESOURCE ASSESSMENT

BIOLOGICAL RESOURCE ASSESSMENT FOR COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT

Prepared for

Community Planning and Engineering, Inc.

Prepared by SWCA Environmental Consultants

October 2013

BIOLOGICAL RESOURCE ASSESSMENT FOR COCONUT ISLAND INFRASTRUCTURE REHABILITATION AND REPLACEMENT PROJECT

Prepared for

Community Planning and Engineering, Inc. 1286 Queen Emma Street Honolulu, Hawai'i 96813 (808) 531-4252

Prepared by

SWCA Environmental Consultants

Bishop Square ASB Tower 1001 Bishop Street, Suite 2800 Honolulu, Hawai'i 96813 (808) 548-7922 www.swca.com

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APPENDICES

Appendix A. Checklist of Plants Observed at Coconut Island on September 20, 2013

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Appendix C. Checklist of Marine Organisms Observed at Coconut Island on September 20, 2013

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1. INTRODUCTION

The Hawai'i Institute of Marine Biology (HIMB) is a 28-acre island in the southern portion of Kāne'ohe Bay, windward O'ahu. An additional 6 acres are enclosed in adjacent lagoons and used for research. A marine mammal pen is present off the southwestern portion of the island, close to the Lighthouse Pier. A 1.4-acre property on Lilipuna Road on the main island is composed of a parking area and Lilipuna Pier, which allows for a boat shuttle to ferry staff and students to HIMB (Figure 1).

Community Planning and Engineering, Inc. is preparing a State of Hawai'i environmental assessment (EA) in support of the rehabilitation of the aging existing infrastructure systems at Coconut Island. The proposed improvements consist of

- infrastructure replacement from Lilipuna Pier to Coconut Island,
- a reroute of the existing gravity sewer,
- sewer pump replacement and wetwell repairs, and
- Lighthouse Pier replacement.

SWCA Environmental Consultants (SWCA) was tasked by Community Planning and Engineering, Inc. to conduct terrestrial flora and fauna surveys as well as marine surveys to document current coastal and nearshore marine natural resources that would be affected by the proposed work. SWCA will also provide a work plan for the protection of natural resources during construction.

2. DESCRIPTION OF PROJECT SITE

2.1. Location and Vicinity

The project site consists of seven general locations (see Figure 1 for approximate locations):

- Location 1, Lilipuna Pier: This area is located on the main island of O'ahu and is the location of a horizontal directional drilling (HDD) site to run new utility lines (water, sewer, cable, and electricity) under the seafloor to HIMB.
- Location 2, cable landing site A (4.6 × 7.6 meters [m] [15 × 25 feet]): This is the landing site for one set of utility lines.
- Location 3, cable landing site B: This is the landing site for the second set of utility lines.
- Location 4, pool house and vicinity: The sewer lines are being relocated in the area and will likely require ground disturbance. A few sections of overhanging pipe around North Lagoon will also be removed.
- Location 5, sewer pump site (6.0 × 6.0 m [20 × 20 feet]): This current sewer pump will be replaced and the wetwell repaired.
- Location 6, road (4.6 m [15 feet] wide): This road between Location 2 and 3 may experience increased personnel/vehicular traffic and may partially be used for the staging of equipment during the construction period, thus was included in this survey.
- Location 7, Lighthouse Pier: The Lighthouse Pier needs to be replaced because the concrete piles have eroded and the concrete pier is no longer safe to use. The current pilings will be rehabilitated, and a new concrete slab will be placed on the rehabilitated pilings.



3. METHODS

SWCA conducted a review of available scientific and technical literature regarding natural resources in and near the site. This literature review encompassed a thorough search of refereed scientific journals, technical journals and reports, environmental assessments, environmental impact statements, relevant government documents, and unpublished data that provide insight into the natural history and ecology of the area. SWCA also reviewed available geospatial data, aerial photographs, and topographic maps of site.

The terrestrial and marine surveys for the various sites were conducted by three SWCA biologists on September 20, 2013.

3.1. Flora Surveys

One SWCA botanist conducted a pedestrian survey of the seven locations at the project site. All vascular plant species observed within the project site were documented and notes were made on relative abundances (e.g., "abundant," "common," "uncommon," or "rare"), communities, and disturbances. Areas more likely to support native plants were more intensively examined. Ornamental species growing in pots, planters, and containers were not included in the survey.

Plants recorded during the survey are indicative of the season ("rainy" vs. "dry") and the environmental conditions at the time of the survey. It is likely that additional surveys conducted at a different time of the year would result in minor variations in the species and abundances of plants observed.

3.2. Fauna Surveys

One SWCA biologist conducted a pedestrian survey of the seven locations at the project site. All birds, mammals, reptiles, amphibians, and invertebrate species seen or heard were noted.

3.3. Marine Surveys

Marine surveys were conducted by two SWCA marine biologists at Locations 1, 3, 4 and 7 by snorkeling or through above-surface observations. Surveys were conducted where in-water work was going to occur, such as at Location 7, the Lighthouse Pier, or in areas where the anticipated earthwork was close enough to the water that runoff could affect water quality and the marine organisms in the water (Locations 1, 3 and 4). Algal species, macroinvertebrates, corals, and fish were recorded for each location. The distribution of invasive species, if present, was also mapped at each location. Invasive species were identified based on the list provided in the State of Hawai'i Aquatic Invasive Species Management Plan (2003). Based on our surveys, invasive species of concern were limited to two species, the gorilla ogo (*Gracilaria salicornia*) and the orange sponge (*Mycale armata*). The locations of these two species were mapped within the areas surveyed.

4. RESULTS

No threatened or endangered plant or animal or marine species nor candidate species (U.S. Fish and Wildlife Service [USFWS] 2013; National Oceanic and Atmospheric Administration [NOAA] 2013a) were found during the flora, fauna, and marine survey of the project site. The project site does not encompass any designated or proposed critical habitat for threatened or endangered species.

4.1. Flora

No state or federally listed threatened, endangered, or candidate plant species, or rare native Hawaiian plant species were observed at the project site. In all, 90 plant species were recorded at the site during the survey. Of these, only three species—naupaka (*Scaevola taccada*), hau (*Hibiscus tiliaceus*), milo (*Thespesia populnea*)—are native to the Hawaiian Islands. These indigenous species are common throughout the Hawaiian Islands (Wagner et al. 1999). Appendix A provides a list of all plant species observed by SWCA biologists in the project site during the survey.

Location 1, Lilipuna Pier: On the O'ahu side of the project site near Lilipuna Pier, the vegetation is dominated by a mixture of various non-native grasses and herbaceous species (Figure 2). The slopes above and below the parking area are vegetated with coat buttons (*Tridax procumbens*), wedelia (*Sphagneticola trilobata*), Panama paspalum (*Paspalum fimbriatum*), wiregrass (*Eleusine indica*), Guinea grass (*Urochloa maxima*), creeping indigo (*Indigofera spicata*), and morning glory (*Ipomoea obscura*). Large milo trees occur immediately adjacent to the shoreline.

Location 2, cable landing site A: The majority of this site is barren, likely because vehicles often traverse the area. The vegetation on the edges of the site is composed of a single large milo tree and a thick mat of wedelia. Small patches of St. Augustine grass (*Stenotaphrum secundatum*) also occur at the site.

Location 3, cable landing site B: The vegetation at cable landing site B is dominated by patches of Henry's crabgrass (*Digitaria ciliaris*) and radiate fingergrass (*Chloris radiata*). Pigweed (*Portulaca oleracea*) and hairy spurge (*Euphorbia hirta*) are also present. Along the shoreline at this site, small milo trees and American mangrove (*Rhizophora mangle*) can be found.

Location 4, pool house and vicinity: The vegetation at this site is composed of ornamental plants and manicured grasses, as well as weedy non-native grasses and herbaceous plants that are common in disturbed coastal areas. Large date palms (*Phoenix* sp.) and coconut trees (*Cocos nucifera*) are widely scattered throughout the area. Red powderpuff (*Calliandra haematocephala*) shrubs and creeping fig (*Ficus pumila*) are common around the pool house. A line of small manicured ironwood trees (*Casuarina equisetifolia*) also occurs in this area (Figure 3). Grass species that are particularly abundant at the pool house and in the vicinity include pitted beardgrass (*Bothriochloa pertusa*), Henry's crabgrass (*Digitaria ciliaris*), Bermuda grass (*Cynodon dactylon*), and Zoysia grass (*Zoysia sp.*). American mangrove and pickleweed (*Batis maritima*) are common along the shoreline in this area.

Location 5, sewer pump site: The groundcover at this site supports a mix of weedy grasses and shrubs including West Indian dropseed (*Sporobolus indicus*), tick trefoil (*Desmodium triflorum*), nodeweed (*Synedrella nodiflora*), and wood sorrel (*Oxalis corniculata*). The overarching canopy on the makai side is composed of milo, American mangrove, and hau.

Location 6, road: The road between cable landing site A and cable landing site B is mostly barren with weedy plants occurring along the edges. Common species on the makai side of the road include milo, Mexican creeper (*Antigonon leptopus*), koa haole (*Leucaena leucocephala*) saplings, Philippine violet (*Barleria cristata*), sourgrass (*Digitaria insularis*), and Chinese violet (*Asystasia gangetica*). On the mauka side of the road, the vegetation is dominated by Natal redtop (*Melinis repens*) and wedelia.

Location 7, Lighthouse Pier: Vegetation at the Lighthouse Pier site is mostly a manicured lawn of zoysia grass with ornamental shrubs and trees. Small milo, ironwood, and buttonwood (*Conocarpus erectus*) trees are planted on the northern side of the lighthouse (Figure 4), while naupaka and spider lily (*Crinum asiaticum*) are planted on the southern portion. Scattered non-native weedy grasses such as West Indian

dropseed, wiregrass, and swollen fingergrass (*Chloris barbata*) are present. American mangrove saplings occur along the shoreline.



Figure 2. Vegetated slope above the parking lot near Lilipuna Pier (Location1).



Figure 3. Lines of ironwood trees and coconut trees in the vicinity of the pool house (Location 4).



Figure 4. Small ironwood and milo trees, with manicured zoysia lawn at the Lighthouse Pier site (Location 7).

4.2. Fauna

4.2.1. Avifauna

The bird species observed at the project site are species typically found in gardens and parklands. In all, 12 species were documented (Appendix B). Two species were migrant shorebirds: one wandering tattler (*Tringa incana*) was observed near the North Lagoon (Location 4) and several Pacific golden plover (*Pluvialis fulva*) were observed on the grassy lawns above the pool house at Location 4. Approximately 30 individuals of the native great frigate birds (*Fregata minor*) were seen soaring above the North Lagoon. Several individuals of Hawaiian duck–like ducks (*Anas* sp.), which are likely to be mallard–Hawaiian duck hybrids, were seen swimming in the waters in the vicinity of the Lighthouse Pier (Location 7). Although not observed, black noddies (*Anous minutus*) are known to forage in Kaneohe Bay, especially when bait fish such as nehu (*Encrasicholina purpurea*) are abundant (Ling Ong, SWCA biologist, personal observation). Black noddies could occasionally forage in the nearshore waters of HIMB and may forage near the Lighthouse Pier (Location 7).

4.2.2. Hawaiian Hoary Bat

Surveys for Hawaiian hoary bats were not conducted; however, Hawaiian hoary bats are strong fliers and have been documented as far as 100 m (330 feet) offshore (U.S. Department of Agriculture [USDA] 2009) and therefore could be potentially fly to the island and roost or forage there occasionally. Hawaiian hoary bats typically roost in dense canopy foliage or in subcanopy when canopy is sparse, with open access for launching into flight (Frank Bonaccorso, U.S. Geological Survey, pers. comm.). Tree species such as coconut and mango (*Mangifera indica*), which are present on the island but not necessarily at the survey locations, have been documented as roost trees for the Hawaiian hoary bat (USDA 2009).

4.2.3. Other Mammals

No mammals were observed during the pedestrian surveys. Mammals that could be expected include rats (*Rattus* spp.) and mice (*Mus musculus*).

4.2.4. Reptiles and Amphibians

No reptiles or amphibians were observed or heard during the survey. None of the terrestrial reptiles or amphibians in Hawai'i are native to the islands, so these are not a species of interest.

4.2.5. Invertebrates

Butterflies documented at the site include the introduced monarch butterfly (*Danaus plexippus*) and the introduced honey bee (*Apis mellifera*).

4.3. Marine Community

Marine surveys were conducted between 11:00 am and 2:00 pm. Low tide occurred at around 10:30 am at +0.15 m (+0.5 feet) with a moderate high tide at 3:00 pm at +0.55 m (+1.8 feet).

4.3.1. Location 1, Lilipuna Pier

The nearshore area on either side of Lilipuna Pier was surveyed from the shoreline and from the top of Lilipuna Pier. The survey area was scanned from the shoreline to 10 m (33 feet) from the shoreline. The shoreline is composed of lava rock ranging from the size of boulders to small pebbles. Coral rubble is present in the intertidal area. Immediately seawards in the subtidal zone, clumps of the invasive algae gorilla ogo were discernible (Figure 5, image "a").

4.3.2. Location 3, Cable Landing Site B

Two nearshore areas were surveyed, a small cove ("Shallow Bay") to the north of the cable landing site and the floating dock area ("Floating Dock") to the south (Figure 5, image "b"). These two areas are downslope of the landing site of the cables and could be affected by runoff during the construction period. Visibility was approximately 4.5–6.0 m (15–20 feet). Adjacent to the seawall at "Shallow Bay," the bottom was completely covered with gorilla ogo (Figure 5, image "b"). Large cells of the green alga, sailor's eyeballs (*Ventricaria ventricosa*) were common, and the conspicuous sea cucumber, (*Opheodesoma spectabilis*) was very common on the surface. On the concrete seawall grapsid crabs (Family Grapsidae) and littorinid snails (Family Littorinidae) moved over the surface. Beyond the gorilla ogo–covered area approximately 10 m (33 feet) from shore, the substratum consisted of sand with scattered rubble of dead coral heads. Benthic native species were present in this area with scattered live coral heads of rice coral (*Montipora capitata*), finger coral (*Porites compressa*), and lace coral (*Pocillopora damicornis*) attached to hard surfaces. Schools of juvenile parrotfishes swam through the area. Schools of bait fish, possibly nehu, were observed in the water column.



Figure 5. Yellow areas depict the approximate distribution of the invasive algae, gorilla ogo, within the areas surveyed (orange line).

Adjacent to "Floating Dock", SWCA surveyed the concrete seawall and shallow substratum approximately 1 m (3 feet) from the surface. Boat traffic and the floating docks prevented safe entry into the water, so the survey consisted of inspection from the seawall and dock. Several coral species were attached to the seawall; most common were the rice coral with a few small colonies of finger coral and a few colonies of crust coral (*Leptastrea purpurea*). The swimming anemone (*Boloceroides mcmurrichi*) was also fairly common. The natural substratum below the seawall had relatively greater densities of rice coral and finger coral. Algae were not conspicuous, and no invasive algae or sponges were seen. Grapsid crabs, including the rock crab (*Metapograpsus thukuhar*) and the dotted periwinkle (*Littoraria pintado*) moved over the seawall. Fishes present in the area included damsel fishes such as kupipi (*Abudefduf sordidus*), juveniles of the Hawaii sergeant (*Abudenduf abdominalis*), and perhaps possibly the Indo-Pacific sergeant (*Abudefduf vaigensis*) or hybrids of the two species. Surgeonfishes such as the manini (*Acanthurus triostegus*) and unidentified gobies were also present. The Hawaiian dascyllus (*Dascyllus albisella*) have been observed at this site, but were not seen during this survey. The complete species list of marine organisms seen in Location 3 during the survey can be found in Appendix C.

4.3.3. Location 4, Pool House and Vicinity

Location 4 consists of a large oval human-made lagoon (North Lagoon). There are two openings from North Lagoon to the Coconut Island reef, one to the west side and one to the east side. The existing sewage line runs around the perimeter of the lagoon and, where the openings occur, the sewage line crosses the gap suspended by concrete structures. These suspended sections are slated to be removed. The north side of the lagoon is dominated by dense American mangrove thickets, which are considered an invasive species (Allen 1998). The south side of the lagoon is rimmed by a concrete wall. Surveys were done along the edge of the lagoon out to roughly 3 m (10 feet). Due to the fine silt, visibility was poor at depths greater than approximately 3 m (10 feet)

Most of the lagoon floor along the edge of the lagoon is covered by the invasive gorilla ogo, particularly in the southern part of the lagoon. Small amounts of another introduced algae, *Acanthophora spicifera*, were also present. Embedded in the gorilla ogo algal mat were other alga such as very large cells of sailor's eyeballs and several sponge species including the introduced lobate sponge (*Suberites zeteki*) and invertebrates such as the feather duster worm (*Sabellastarte spectabilis*), glass anemone (*Aiptasia pulchella*), and the solitary tunicate, the black sea squirt (*Phallusia nigra*). The conspicuous sea cucumber was very abundant on top of the algal mats (Figure 6). Only a single small head of rice coral and another small head of lace coral were noted in the location. The mangrove roots were also colonized by green algae (*Caulerpa* spp.) and a variety of sponges. The silty substratum of the lagoon floor was densely occupied by burrows. Burrows constructed by gobies and acorn worms were observed. Snapping shrimp (Family Alpheidae) could be heard throughout the entire survey. Other burrow-dwelling organisms such as crabs, polychaete worms, shrimps, stomatopods (mantis shrimps), sipunculans (peanut worms) are also likely present. A survey of the soft sediment infauna was beyond the scope of this project.

Conditions were somewhat different in the vicinity of the two openings to Coconut Island reef. The sediments were coarser, consisting of sand and gravel instead of silt due to greater water motion near the openings. Very small juvenile fishes, likely new recruits, swam in the open water and included damselfishes, the Hawaii sergeant, and perhaps possibly the Indo-Pacific sergeant or hybrids of the two species, and the surgeonfish, manini. Bait fish, probably nehu, were abundant in the water column (Figure 7). Overall, fish and coral diversity and abundance were low in North Lagoon. The complete species list of marine organisms seen in Location 4 during the survey can be found in Appendix C.



Figure 6. Benthic organisms found on gorilla ogo mats in the North Lagoon (Location 4).



Figure 7. The west opening of North Lagoon (Location 4) with bait fish, likely nehu, in the water column.

4.3.4. Location 7, Lighthouse Pier

For safety reasons, no surveys were done under the pier. Concrete slabs have detached from the pier and fallen (Figure 8). The survey involved snorkeling along the seaward edge of the pier and looking under the pier to the maximum extent possible. The pier is approximately 6 m (20 feet) wide and 24 m (78 feet) long. Fish, corals, and macroalgae up to 4 m (12 feet) away from the pier were also recorded. The water depth along the long edge of the pier was approximately 2.5 m (8 feet) and sloped down to 3.7–4.6 m (12–15 feet) as one moved away from the pier. The visibility in the water was about 3 m (10 feet) at the time of the survey. The tide was at approximately 0.3 m (1 foot) and rising.

Due to the limited visibility, it was not possible to see all the way to the back of the pier. However, there appeared to be little to no coral more than 2 m (6.5 feet) under the pier, possibly due to the limited light availability. Coral cover increased from about 2 m (6.5 feet) under the edge of the pier to 4 m (12 feet) beyond the pier. High coral cover (visually estimated to be more than 50% cover) was present from the edge of the pier out onto the slope (Figure 8). Most of the coral cover consisted of large colonies of rice coral, largely plate-like in form, intermixed with some branching forms. Away from the pier where there was greater light penetration, finger coral contributed a substantial part of the high coral cover. Small colonies of lace coral and crust coral occurred throughout the area. As far as was safe, SWCA specifically searched for colonies of blue rice coral (*Montipora flabellata/dilatata/turgescens*) and spreading or sandpaper rice coral (*Montipora patula/verrilli*), which have been proposed for listing by the National Oceanic and Atmospheric Administration (NOAA 2012). We did not observe either of these coral species at this site.

Orange sponge (*Mycale armata*), an invasive alien sponge, forms very large colonies near the bases of most of the pilings that had supported the pier. This sponge was also abundant beneath the pier in shaded areas. Zonation of biota on the pilings was evident. In the upper 10–20 centimeters (cm) (4–8 inches) were very large (greater than 10-cm [4-inch]) Japanese oysters (*Crassostrea gigas*). Below the Japanese oysters, smaller oysters (*Crassostrea* sp. and *Spondylus violacescens*) were observed in high densities. Rice corals and orange sponge dominated the lowest parts of the pilings (Figure 9). The feather duster worm and the green alga *Dictyosphaeria versluyii* were also common on the pilings.

Large plate-like colonies of rice coral were observed to at least 6 m (20 feet) off the pier. Most of the living corals seemed to extend farthest out from the midpoint of the pier.

Fish diversity was highest at the Lighthouse Pier compared to all other survey locations. In all, 20 species of fish were documented. Most fish were concentrated near the corals at the edge of the pier and farther out. Few fish were seen under the pier. Damselfishes (e.g., kupipi, the Hawaiian or Indo-Pacific sergeant), surgeonfishes (e.g., manini and sailfin tangs [*Zebrasoma veliferum*]), wrasses (e.g., Hawaiian hogfish (*Bodianus bilunulatus*), and saddle wrasse [*Thalassoma duperrey*]) as well as juvenile parrotfishes were common. Many of the species present were represented by both adults and juveniles. A list of all species seen during the survey can be found in Appendix C.

While not observed in this survey, the threatened green turtle (*Chelonia mydas*) has occasionally been seen in the waters around the Lighthouse Pier. In addition, the Marine Mammal Research Program currently houses three bottlenose dolphins (*Tursiops truncates*) and one false killer whale (*Pseudorca crassidens*). These animals are kept in pens approximately 70 m (220 feet) from the Lighthouse Pier. All marine mammals are protected under the Marine Mammal Protection Act (NOAA 2007).



Figure 8. Fallen slabs of concrete under the Lighthouse Pier (Location 7) with finger coral and rice coral at the seaward edge of the pier.



Figure 9. Oysters, coral, and sponges on pilings at the Lighthouse Pier (Location 7).

5. DISCUSSION AND WORKPLAN RECOMMENDATIONS

5.1. Flora

Overall, the vegetation in the project site is disturbed from previous and current land-use activities. The vegetation types and species identified are not considered unique. Over 96% of the plant species seen are not native, and the three native species observed are common throughout the Hawaiian Islands. No threatened or endangered plants (USFWS 2013) were found during the reconnaissance, or during previous surveys in the vicinity (Char & Associates 1994, 1995), and no designated plant critical habitat occurs in the area. Therefore, the proposed project is not expected to have a significant, adverse impact on botanical resources.

SWCA recommends that native Hawaiian plants be used for landscaping around the project site to the maximum extent possible. Potential native species that may be appropriate for landscaping at the proposed project site include milo, pōhinahina (*Vitex rotundifolia*), kou (*Cordia subcordata*), and Hawaiian cotton or ma'o (*Gossypium tomentosum*). Additional information on selecting appropriate plants for landscaping can be obtained from the following websites:

- http://www.nativeplants.Hawaii.edu/
- <u>http://www.plantpono.org/non-invasive-plants.php</u>
- http://www.hear.org/alternativestoinvasives/pdfs/mcaac_hpwra_a2i_list.pdf
- <u>http://www.hear.org/oisc/oahuearlydetectionproject/pdfs/oedposterwhatnottoplant.pdf</u>

Weedy non-native plants are common throughout the project site. However, to minimize the further spread or introduction of new invasive species in the project site, all equipment, vehicles, and material (particularly those brought from outside O'ahu) should be properly washed and inspected prior to transportation to the project site. When possible, raw materials (e.g., gravel, rock, and soil) should be purchased from a local supplier on O'ahu to avoid introducing non-native species not present on the island. If hydroseeding occurs, SWCA recommends that off-site sources of revegetation materials (e.g., seed mixes and mulches) are certified weed-free or inspected prior to revegetation. SWCA recommends that inspection and cleaning activities be conducted at a designated location and documented using inspection forms.

5.2. Fauna

The Pacific golden plover and wandering tattler, both migrants, were mainly observed in the vicinity of the pool house (Location 4). Construction may temporarily displace these birds if conducted during the migration season. However, it is expected that these birds would return when construction is complete; no long-term impacts are expected. Similarly, black noddies may be temporarily displaced during the rehabilitation of the Lighthouse Pier (Location 7), but the displacement is expected to be temporary and no long-term impacts are expected. Great frigate birds typically fly at high altitudes and are not expected to be affected by the project.

5.3. Marine Organisms

5.3.1. Protection of Corals

Coral cover was high at Location 7, the Lighthouse Pier, where in-water work is expected to occur. SWCA estimated that there would be about 1.8 m (6 feet) depth of water over the shallowest corals at low tide, excluding those attached to the piers. Therefore, a barge or workboat with less than a 4-foot draft

could tie off along the length of the pier at most tide states (except during minus or negative tides) without damaging living corals. However, living corals rise to much shallower depths (estimated 0.6 m or 2 feet at low tide) at the west end of the pier where the wooden boat landing ramp is attached. In-water work in that small area could potentially damage those coral heads. If coral damage in that area is determined to be likely, it would be worth considering translocating the corals that would be damaged in the course of the work.

5.3.2. Prevention of Fragmentation of Invasive Species

In-water work is only expected to occur at the Lighthouse Pier (Location 7). The invasive orange sponge occurs on the pilings at the Lighthouse Pier (Location 7), and care should be taken to minimize the creation of sponge fragments during construction to prevent the further spread of this invasive species.

5.3.3. Avoidance and Minimization Measures to Prevent Impact to Marine Mammals and Green Turtles

Construction activities may temporarily displace turtles from the water surrounding the construction area during the construction period. This displacement is expected to be temporary, and no long-term impacts to green turtles are expected. It is recommended that in-water work cease if the threatened green turtle is seen within 46 m (50 yards) of the in-water construction area. Construction may resume when the green turtle voluntarily leaves the area. Any construction-related debris that may pose an entanglement threat to turtles will be removed from the construction area at the end of each day and at the conclusion of the construction project.

Marine mammals are sensitive to loud noises that may be created by construction activities such as pile driving. Construction of this nature is not expected for this project; however, if such construction is to occur, consultation with NOAA should be conducted prior to the beginning of construction. All marine mammals are protected under the Marine Mammal Protection Act (NOAA 2007).

Workers should not attempt to feed, touch, ride, or otherwise intentionally interact with any listed species.

Any incidental take of marine protected species should be reported immediately to the lead federal agency for the project, which will in turn contact the National Marine Fisheries Service. In addition, the applicant or contractor should immediately call one of the following for any injured or stranded marine mammals and sea turtles:

Marine Mammal Response Hotline (888-256-9840)

Sea Turtle Stranding Team (808-983-5730; M–F 0700–1400 hrs)

Marine Option Program, Sea Turtles Afterhours Contractor (808-288-5685 or 808-288-0023, pagers)

5.3.4. Measures to Maintain Water Quality during Construction

The following best management practices (BMPs) to protect marine water quality are also recommended by NOAA (2013b). The applicability of these BMPs to the proposed project will depend on the site-specific construction means and methods chosen.

- 1. A contingency plan to control toxic materials is required.
- 2. Appropriate materials to contain and clean potential spills shall be stored at the work site and be readily available.

- 3. All project-related materials and equipment placed in the water shall be free of pollutants.
- 4. The project manager and heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and shall not proceed until the leak is repaired and equipment cleaned.
- 5. Fueling of land-based vehicles and equipment shall take place at least 15 m (50 feet) away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.
- 6. Turbidity and siltation from project-related work shall be minimized and contained through the appropriate use of erosion control practices, effective silt containment devices, and the curtailment of work during adverse weather and tidal/flow conditions.
- 7. A plan shall be developed to prevent debris and other wastes from entering or remaining in the marine environment during the project.

5.4. Waters of the United States

The U.S. Army Corps of Engineers (USACE) derives its regulatory authority over wetlands and waters of the United States (WoUS) from two federal laws: 1) Section 10 of the Rivers and Harbors Act of 1899 and 2) Section 404 of the Clean Water Act (33 United States Code 1251 et seq. [1972]). Dredged and fill material may not be discharged into jurisdictional waters of the U.S. (including wetlands) without a permit. Wetlands and waters subject to agency jurisdiction include traditional navigable waters (TNW), wetlands adjacent to TNW, non-navigable tributaries of TNW that are relatively permanent where the tributaries. Determination of jurisdictional status depends, in part, on "significant nexus" with a TNW. This is assessed by determining if the flow characteristics and function of the tributary and the functions performed by wetlands adjacent to the tributary significantly affect the chemical, physical, and biological integrity of the downstream TNW.

While SWCA's survey did not involve determination or delineation of WoUS, several were observed in the immediate vicinity of the terrestrial project site (particularly near the sewer pump site). Any work involving the discharge of dredged or fill material into WoUS would require a permit from the Honolulu District USACE. This preliminary conclusion is subject to confirmation by the Honolulu District USACE.

To avoid the need for a permit from the Honolulu District USACE, SWCA recommends the project footprint (e.g., panels, associated facilities, and roadways) be designed to avoid potentially jurisdictional features to the maximum extent possible. The following BMPs could also be incorporated during construction to reduce impacts to nearby WoUS:

- Minimize clearing and grubbing to the amount necessary for grading, access, and equipment operation.
- Install erosion and sediment control measures prior to initiating earthmoving activities and functionality maintained throughout the construction period.
- Sequence construction to minimize the exposure time of the cleared surface area.
- Protect and stabilize areas that are disturbed during the course of construction.
- Inspect control measures (e.g., silt fences, sand bag barriers, sediment traps, geotextile mats, and other measures intended for soil/sediment trapping) once a week during dry periods and repair as necessary.

- Inspect and repair control measures, as needed, within 24 hours after a rainfall event of 0.5 inch or greater over a 24-hour period. During periods of prolonged rainfall, daily inspections shall occur, unless extended heavy rainfall makes access impossible or hazardous.
- Maintain records for all inspections and repairs on-site.
- Apply permanent soil stabilization (e.g., graveling or re-planting of vegetation) as soon as practical after final grading.

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Appendix A.

CHECKLIST OF PLANTS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013

The following checklist is an inventory of plant species observed by SWCA biologists on September 20, 2013 during the survey of the Coconut Island project site. The plant names are arranged alphabetically by family and then by species into four groups: Gymnosperms, Ferns & Lycophytes, Monocots and Dicots. The taxonomy and nomenclature of the ferns and lycophytes is in accordance with Palmer (2003) and Evenhuis and Eldredge (2011). The taxonomy and nomenclature of the flowering plants are in accordance with Wagner et al. (1999), Wagner and Herbst (2003), and Staples and Herbst (2005). Recent name changes are those recorded in Wagner et al. (2012).

Status:

E = endemic = native only to the Hawaiian Islands.

I = indigenous = native to the Hawaiian Islands and elsewhere.

P = Polynesian = introduced by Polynesians.

X = introduced/alien = all those plants brought to the Hawaiian Islands by humans, intentionally or accidentally, after Western contact (Cook's arrival in the islands in 1778).

Relative Site Abundance:

A = Abundant = forming a major part of the vegetation within the survey area.

C = Common = widely scattered throughout the area or locally abundant within a portion of it.

U = Uncommon = scattered sparsely throughout the area or occurring in a few small patches.

R = Rare = only a few isolated individuals within the survey area.

Scientific Name	Common & Hawaiian Name(s)	Status	Abundance (Coconut Island)	Abundance (Lilipuna Pier)
GYMNOSPERMS				
ARAUCARIACEAE				
Araucaria columnaris (G.Forst.) Hook.	cook pine	Х		R
FERNS & LYCOPHYTES				
LOMARIOPSIDACEAE				
Nephrolepis brownii (Desv.) Hovenkamp & Miyam.		Х		R

POLYPODIACEAE				
Phymatosorus grossus (Langsd. & Fisch.) Brownlie	laua'e, maile-scented fern	Х	R	
MONOCOTS				
AGAVACEAE				
Cordyline fruticosa (L.) A.Chev.	ti	Р	R	R
ARECACEAE				
Cocos nucifera L.	niu, coconut	Р	С	
Phoenix sp.	date palm	X	С	
CYPERACEAE				
Cyperus gracilis R.Br.	McCoy grass, mau'u hunehune	X		R
Cyperus rotundus L.	nut sedge	Х	R	
Kyllinga brevifolia Rottb.	kili'o'opu, kaluhā	Х	R	
Kyllinga nemoralis (J.R.Forst. & G.Forst.) Dandy ex	kili'o'opu, mau'u mokae	X	R	R
Hutch. & Dalziel				
Crinum asiaticum L	spider lily giant lily	X	R	R
ORCHIDACEAE				
Spathoglottis plicata Blume	Malayan ground orchid, Philippine	x	R	
	ground orchid		K	
POACEAE				
Bothriochloa pertusa (L.) A.Camus	pitted beardgrass	X	С	U
Cenchrus echinatus L.	common sandbur	X	R	R
Chloris barbata Sw.	swollen fingergrass	X	U	U
Chloris radiata (L.) Sw.	radiate fingergrass, plushgrass	X	U	
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Cynodon dactylon (L.) Pers.	Bermuda grass	Х	С	
Digitaria ciliaris (Retz.) Koeler	Henry's crabgrass, kūkaepua'a	Х	С	
Digitaria insularis (L.) Mez ex Ekman	sourgrass	X	U	R
Eleusine indica (L.) Gaertn.	wiregrass	X	R	С
Eragrostis amabilis (L.) Wight & Arn.	lovegrass	X	U	
Melinis repens (Willd.) Zizka	Natal redtop, Natal grass	Х	R	
Paspalum conjugatum P.J.Bergius	Hilo grass	Х	U	
Paspalum dilatatum Poir.	dallis grass	Х	R	
Paspalum fimbriatum Kunth	Panama paspalum, fimbriate paspalum	Х		С
Sporobolus indicus (L.) R.Br.	West Indian dropseed, smutgrass	Х	С	
Stenotaphrum secundatum (Walter) Kuntze	St. Augustine grass, buffalo grass	Х	С	U
Urochloa maxima (Jacq.) R. D. Webster	Guinea grass	Х		С
Zoysia sp.	Zoysia grass, Japanese lawngrass	Х	С	
<u>STRELITZIACEAE</u>				
Strelitzia reginae Dryander	bird-of-paradise	Х	R	
ZINGIBERACEAE				
Alpinia purpurata (Vieill.) K.Schum.	red ginger, 'awapuhi 'ula'ula	Х	R	
DICOTS				
ACANTHACEAE				
Asystasia gangetica (L.) T. Anders.	Chinese violet	Х	U	U
Barleria cristata L.	Philippine violet	Х	U	
ANACARDIACEAE				
Schinus terebinthifolius Raddi	Christmas berry	X	R	R

APOCYNACEAE				
Nerium oleander L.	oleander, 'oleana	X	R	
Plumeria obtusa L.	Singapore plumeria	X	U	
ARALIACEAE				
Schefflera actinophylla (Endl.) Harms	octopus tree	X	R	
ASTERACEAE				
<i>Bidens alba</i> (L.) DC. var. <i>radiata</i> (Sch.Bip.) Ballard ex Melchert	Spanish needle, beggartick	X	R	
Bidens pilosa L.	Spanish needle, beggartick	Х	R	
Calyptocarpus vialis Less.		X	U	
Conyza bonariensis (L.) Cronq.	hairy horseweed	X	U	R
<i>Conyza canadensis</i> (L.) Cronquist var. <i>pusilla</i> (Nutt.) Cronquist	horseweed, lani wela, ilioha	X	R	
Cyanthillium cinereum (L.) H.Rob.	little ironweed	X	R	
Emilia fosbergii Nicolson	pualele	X	R	R
Erigeron bellioides DC.	fleabane	X	R	
Pluchea indica (L.) Less.	Indian fleabane, Indian pluchea, marsh fleabane	X	U	
Sonchus oleraceus L.	sow thistle, pualele	X	R	
Sphagneticola trilobata (L.) Pruski	wedelia	X	С	А
Synedrella nodiflora (L.) Gaertn.	nodeweed	X	U	R
Tridax procumbens L.	coat buttons	Х	U	А
BATACEAE				
Batis maritima L.	pickleweed, 'ākulikuli kai	X	С	R
BRASSICACEAE				
Lepidium africanum (Burm.f.) DC.	pepperwort, peppergrass	X		R

CARICACEAE				
Carica papaya L.	papaya	Х	R	
CASUARINACEAE				
Casuarina equisetifolia L.	ironwood	Х	С	
COMBRETACEAE				
Conocarpus erectus L.	buttonwood, button mangrove, sea mulberry,	X	U	
CONVOLVULACEAE				
Ipomoea obscura (L.) Ker Gawl.	morning glory	X		R
CUCURBITACEAE				
Coccinia grandis (L.) Voigt	ivy gourd	Х		R
EUPHORBIACEAE				
Euphorbia hirta L.	hairy spurge, garden spurge	Х	U	
Euphorbia hypericifolia L.	graceful spurge	Х	U	U
Euphorbia prostrata Aiton	prostrate spurge	Х	R	
Phyllanthus debilis Klein ex Willd.	niruri	Х	U	
FABACEAE				
Calliandra haematocephala Hasskarl	red powderpuff, lehua haole	Х	С	
Chamaecrista nictitans (L.) Moench	partridge pea	Х	U	
Crotalaria incana L.	fuzzy rattlepod	Х		R
Desmanthus pernambucanus (L.) Thell.	slender mimosa, virgate mimosa	X	R	
Desmodium incanum DC.	Spanish clover	X	U	R
Desmodium triflorum (L.) DC.	tick trefoil, tick clover	X	U	
Indigofera spicata Forssk.	creeping indigo	X	U	С

Leucaena leucocephala (Lam.) de Wit	koa haole	X	U	U
GOODENIACEAE				
Scaevola taccada (Gaertn.) Roxb.	naupaka	Ι	R	R
MALVACEAE				
Abutilon grandifolium (Willd.) Sweet	hairy abutilon	Х		R
Hibiscus tiliaceus L.	hau	I?	R	
Malvastrum coromandelianum (L.) Garcke ssp. coromandelianum		Х	R	
Thespesia populnea (L.) Sol. ex Corrêa	milo	Ι	С	С
MORACEAE				
Ficus microcarpa L.f.	Chinese banyan, Malayan banyan	Х	R	
Ficus pumila L.	creeping fig	Х	С	
Ficus sp.		X		R
OXALIDACEAE				
Oxalis corniculata L.	wood sorrel	P?	U	U
PASSIFLORACEAE				
Passiflora sp.		X	R	
Plantago major I	broad-leaved plantain common plantain	x	R	
			ix i	
POLYGONACEAE				
Antigonon leptopus Hook. & Arn.	Mexican creeper, mountain rose	X	U	R

PORTULACACEAE				
Portulaca oleracea L.	pigweed, 'ākulikuli kula	X	R	
Portulaca pilosa L.	ʻākulikuli	X	R	
PRIMULACEAE				
Anagallis arvensis L.	scarlet pimpernel	X	R	R
RHIZOPHORACEAE				
Rhizophora mangle L.	American mangrove, red mangrove	X	U	
RUBIACEAE				
Ixora casei Hance	ever-blooming ixora	X	R	
Spermacoce assurgens Ruiz & Pav.	coat buttons, buttonweed	X	R	
SOLANACEAE				
Solanum lycopersicum L.	tomato	X		R
URTICACEAE				
Pilea microphylla (L.) Liebm.	artillery plant, rockweed	X	R	
VERBENACEAE				
Stachytarpheta cayennensis (Rich.) Vahl	blue rat's-tail	X	R	

Appendix B.

CHECKLIST OF BIRDS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013

The following checklist is an inventory of bird species observed by SWCA biologists on September 20, 2013, during the survey of the Coconut Island project site. The bird species names are arranged alphabetically.

Common Name	Scientific Name	Status
Common myna Mallard-Hawaiian duck	Acridotheres tristis	NN
hybrid	Anas sp.	-
Northern cardinal	Cardinalis cardinalis	NN
Common waxbill	Estrilda astrild	NN
Great frigatebird	Fregata minor	Ι
Zebra dove	Geopelia striata	NN
Red-crested cardinal	Paroaria coronata	NN
Pacific golden plover	Pluvialis fulva	М
Red-vented bulbul	Pycnonotus cafer	NN
Spotted dove	Streptopelia chinensis	NN
Wandering tattler	Tringa incana	М
Japanese white-eye	Zosterops japonicus	NN
	Total	12

I = indigenous, NN = non-native permanent resident, M = migrant

Appendix C.

CHECKLIST OF MARINE ORGANISMS OBSERVED AT COCONUT ISLAND ON SEPTEMBER 20, 2013

FISH				Location		
			North	Shallow	Floating	Lighthouse
Family	Species	Common Name	Lagoon	Вау	Dock	Pier
Engraulidae (Anchovies)	Encrasicholina purpurea	Nehu	Х	х		
Aulostomidae (Trumpetfishes)	Aulostomus chinensis	Trumpetfish				х
Fistulariidae (Cornetfishes)	Fistularia commersonii	Cornetfish				х
Carangidae (Jacks)	Scomberoides lysan	Lai				х
Mullidae (Goatfish)	Parupeneus porphyreus Mulloidichthys	whitesaddle goatfish (Kumu)				х
	flavolineatus	Weke ula			Х	
	Parupeneus multifasciatus	Moano				х
Pomacentridae (Damselfishes)	Abudefduf abdominalis	Hawaiian sergeant (Mamo)	Х		Х	х
	Abudefduf vaigiensis	Indo-Pacific sergeant	Х		Х	х
	Abudefduf sordidus	Кирірі	Х		Х	
Labridae (Wrasses)	Stethojulis balteata	belted wrasse ('Omaka)				х
	Thalassoma duperrey	saddle wrasse (Hinalea lauwili)				х
	Bodianus bilunulatus	Hawaiian hogfish				х
	Gomphosus varius	Bird wrasse				х
Scaridae (Parrotfishes)	Scarus spp.			Х	Х	х
	Chlorurus perspicillatus	Spectacled parrotfish				х
	Chlorurus spilurus	Bullethead parrotfish				х
Gobbidae (Gobies)	Eviota epiphanes	Divine dwarf goby	Х			
	unidentified gobies		Х		Х	х
Acanthuridae (Surgeonfish)	Acanthurus blochii	ringtail surgeonfish (Palani)	Х			х
	Acanthurus nigroris	Blue-lined surgeonfish			Х	
	Acanthurus triostegus	Manini	Х		Х	х
	Acanthurus xanthopterus	Yellowfin surgeonfish				х
	Zebreasoma veliferum	Sailfin tang				х
Sphyraeniae (Barracudas)	Sphyraena barracuda	Great barracuda	Х		Х	х

Coral				Loca	Location	
Family	Species	Common Name	North Lagoon	Shallow Bay	Floating Dock	Lighthouse Pier
Pocilloporidae	Pocillopora damicornis	lace coral	Х	Х	Х	Х
Poritidae	Porites compressa	finger coral		х	Х	х
Acroporidae	Montipora capitata	rice coral	х	х	Х	Х
Faviidae	Leptastrea purpurea	crust or crater coral			Х	Х
Other Marine Invertebrates				Loca	tion	
Classification	Species	Common Name	North Lagoon	Shallow Bay	Floating Dock	Lighthouse Pier
Phylum:Porifera (Sponges)	Mycale sp.		X			
	Callyspongia diffusa	Violet callyspongia	х			
	Suberites zeteki*	Lobate sponge	х			
	Mycale armata*	Orange sponge			х	Х
Order: Actinaria (Sea Anemones)	Boloceroides mcmurrichi	Swimming anemone			х	
	Aiptasia pulchella	Glass anemone	Х			
Class: Polychaeta (Bristleworms)	Sabellastarte sanctiiosenhi*	Featherduster worm	x		x	x
Class: Enteropheusta (Acorn	Sunctijosepin		X		Х	X
worms)	Ptychodera sp.	Acorn worm	Х			
Family: Littorinidae (Periwinkles)	Littoraria pintado	Dotted periwinkle			х	
	Littoraria scabra	Mangrove periwinkle	х			х
Family Pinnidae (Pen shells)	Pinna muricata	Prickly pen shell	х			
Family: Isognomonidae	lsognomon perna	Brown purse shell	х			
Family : Calyptraeidae	Crucibulum spinosum*	Spiny cup and saucer shell	Х			
Family:Ostreidae	Crassostrea sp.	Oyster	Х			Х
	Crassostrea gigas	Japanese oyster				Х
	Spondylus violacescens	Cliff oyster				Х

	Dendostrea sandvicensis	Hawaiian oyster	Х		
Class: Cirripedia (Barnacles)	<i>Balanus</i> sp.		Х		
Family: Graspidae (Rock crabs)	Metopograpsus thukuhar	rock crab	Х	Х	Х
Class Holothuridae (Sea cucumbers)	Opheodesoma spectabilis	Conspicuous sea cucumber	Х		х
Subphylum: Urochordata (Tunicates)	Phallusia nigra*	Black sea squirt	х		

	ALGAE			Location		
			North	Shallow	Floating	Lighthouse
Division	Species	Common Name	Lagoon	Вау	Dock	Pier
Rhodophyta (Red algae)	Gracilaria salicornia*	Gorilla ogo	Х	Х	Х	х
	Acanthophora spicifera*		х			
	Laurencia sp.		х			
Chlorophyta (Green algae)	Caulerpa sp.		х			
	Dictyosphaeria versluysii		х			х
	Ventricaria ventricosa	Sailor's eyeballs	Х	Х		
	Caulerpa racemosa/					
	nummularia			Х		
Ochrophyta (Brown algae)	Padina sp		Х			
	Dictyota sp.			Х		

* introduced species