



STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. Box 3378
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Testimony COMMENTING on H.B. 393 H.D.1
RELATING TO HAWAIIAN FISHPONDS

REPRESENTATIVE DELLA AU BELLATTI, CHAIR
REPRESENTATIVE RICHARD P. CREAGAN, VICE CHAIR
HOUSE COMMITTEE ON HEALTH

Hearing Date: February 18, 2015

Room Number: 329

1 **Fiscal Implications:** None.

2 **Department Testimony:** The Department of Health (DOH) offers suggestions to this measure.
3 The purpose of this measure is to waive the requirement to obtain a Section 401 Water Quality
4 Certification (WQC) if a project has received a notice of authorization to proceed by the
5 Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands
6 under a Statewide Programmatic General Permit (SPGP) for the restoration, repair, maintenance,
7 and operation of a traditional Hawaiian fishpond system (loko i'a).

8 DOH supports the intent of this measure and continues to support efforts to streamline the
9 permit process for restoration and repair of loko i'a. Hawaii Administrative Rules (HAR),
10 Chapter 11-54, Water Quality Standards, addresses Hawaiian fishponds. HAR Section 11-54-
11 9.1.01(c) requires that DOH process applications for Section 401 Water Quality Certification
12 (WQC) for the reconstruction, repair, maintenance, and operation of any Hawaiian fishpond that
13 meets the requirements of Hawaii Revised Statutes (HRS), Chapter 183B-1 before all other
14 permits and certifications. In addition, it imposes strict deadlines on DOH to determine the
15 completeness, and for issuing or denying these applications. As such, DOH has processed all
16 Section 401 WQC applications for Hawaiian fishponds in accordance with provisions under HRS
17 91 and 92, HRS Chapter 342D, and HAR 11-54. Attached for your reference is a document
18 entitled, HB393 Hawaiian Fishpond Section 401 WQC Applications. It lists all the Section 401
19 WQC applications for Hawaiian fishponds that DOH has processed to-date. The information

1 “§342D-6.5 Hawaiian loko i‘a. (a) The department shall process applications,
2 except for any project as described in subsection (b), for permits and water quality
3 certifications for the reconstruction, restoration, repair, or reuse of any loko i‘a, or
4 Hawaiian fishpond as defined in section 183B-1, before all other permits and
5 certifications. The director shall render a decision on the completeness of any
6 application for that permit or water quality certification within thirty days of
7 receipt. Applications for loko i‘a reconstruction, restoration, or repair that are
8 incomplete shall be denied without prejudice. The director shall render a decision
9 on any complete application for a permit or water quality certification for any
10 loko i‘a within one hundred fifty days.

11 (b) Any project for which a notice of authorization to proceed has been issued
12 by the Department of Land and Natural Resources under a statewide
13 programmatic general permit for the reconstruction, restoration, repair, or reuse of
14 loko i‘a shall be exempt from being required to obtain a water quality certification
15 under this chapter.

16 (c) Any statewide programmatic general permit issued for the reconstruction,
17 restoration, repair, or reuse of loko i‘a shall comply with all applicable sections
18 under this chapter.

19 (d) For purposes of this section:

20 “Water quality certification” means state certification pursuant to section 401 of
21 the federal Clean Water Act

22 “Loko i‘a” means Hawaiian fishpond, as defined in section 183B-1.”

23 Thank you for the opportunity to testify on this measure.

DAVID Y. IGE
GOVERNOR OF HAWAII



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES**

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CARTY S. CHANG
INTERIM CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DANIEL S. QUINN
INTERIM FIRST DEPUTY

W. ROY HARDY
ACTING DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

**Testimony of
CARTY S. CHANG
Interim Chairperson**

**Before the House Committees on
HEALTH**

**Wednesday, February 18, 2015
8:30 a.m.
State Capitol, Conference Room 329**

**In consideration of
HOUSE BILL 393, HOUSE DRAFT 1
RELATING TO HAWAIIAN FISHPONDS**

House Bill 393, House Draft 1 proposes to require the Department of Health (DOH) to waive the requirement to obtain a water quality certification for any person that has received notice of authorization to proceed from the Department of Land and Natural Resources' (Department) Office of Conservation and Coastal Lands (OCCL) under the statewide programmatic general permit for the restoration, repair, maintenance, and operation of Hawaiian fishponds. **The Department supports this measure.**

Hawai'i State Senate Resolution 86 (2012) urged the Department, the Office of Planning (OP), and the DOH to streamline the permitting process for the restoration of Hawaiian fishponds. To this end, the Department has been working with other state, county, and federal agencies have been working to integrate the many permits needed for the repair, restoration, maintenance, and operation of traditional Hawaiian fishponds.

Agencies have taken the following actions in support of the resolution:

- April 2013 – OP issues a Coastal Zone Management Consistency Statement.
- October 2013 – The Department publishes a Final Programmatic Environmental Assessment for activities related to the repair, restoration, maintenance, and operation of traditional Hawaiian fishponds.
- June 2014 – The Board of Land and Natural Resources approves a programmatic Conservation District Use Permit (CDUP) ST-3703 for the repair, restoration, maintenance, and operation of traditional Hawaiian fishponds (Ho'āla Loko I'a program)

- November 2014 – The United States Army Corps of Engineers notifies the Department that fishpond repair and restoration is consistent with the existing Nationwide General Permit Number 4.

Securing a Water Quality Certification for fishpond repair and restoration is the necessary final step towards creating a streamlined permitting regime.

The Department's Ho'āla Loko I'a program contains best management practices and water quality monitoring protocols that are in compliance with the federal Clean Water Act and with Environmental Protection Agency guidelines, as well as with Section 10 of the Rivers and Harbors Act of 1899.

The Final environmental assessment reviewed the best available science, and concluded that repair, restoration, maintenance, and operation of traditional Hawaiian fishponds would have significant benefits to Hawaiian biocultural resources and long-term cumulative benefits to the State's coastal ecosystems and water quality.

The Ho'āla Loko I'a program has been funded and/or supported by a network of governmental and non-governmental entities, such as Conservation International (CI), Kua'āina Ulu 'Auamo (KUA), the National Oceanic and Atmospheric Administration, traditional fishpond practitioners, and others, with no additional budgetary requirements for the Department. Once the program is fully operational, application processing will be managed by OCCL and technical support for traditional fishpond practitioners (e.g., preparation of a guidebook, and water quality monitoring) will be supported by entities such as CI, KUA and others.



HB393 HD1
RELATING TO HAWAIIAN FISHPONDS
House Committee on Health

February 18, 2015

8:30 a.m.

Room 329

The Office of Hawaiian Affairs (OHA) **SUPPORTS** HB393 HD1, which seeks to promote the restoration, repair, maintenance, and operation of traditional Hawaiian fishponds by waiving Department of Health water certification permitting requirements for those projects that have been vetted through the statewide general programmatic fishpond permit process.

OHA commends the intent of this measure, in seeking to support the restoration and rejuvenation of our traditional Hawaiian fishponds. Traditional fishponds, or loko i‘a, were and continue to be important cultural resources to Native Hawaiians. Demonstrating advanced engineering and aquaculture technologies found nowhere else in the Pacific, loko i‘a still serve as a source of sustenance, and today offer a wide range of educational opportunities for Native Hawaiians and the larger community. In addition, fishpond restoration has become a major part of the Hawaiian cultural revival movement, with a number of groups across Hawai‘i taking on the kuleana of bringing once-forgotten fishponds back to life.

Unfortunately, the permitting and approval processes for fishpond restoration have proven cumbersome, hindering efforts to revive these cultural treasures. Accordingly, OHA has consistently supported state and federal agencies’ efforts, as well as those of fishpond practitioners and cultural nonprofit organizations, in streamlining these processes, when appropriate, into an interagency programmatic permit. OHA understands that this bill now seeks to remove a separate and time-consuming permitting process required under the Department of Health’s water quality rules. OHA notes that notwithstanding this waiver, substantive water quality standards and protections will be maintained via the best management practices and other conditions required under the general programmatic fishpond permit process.

Accordingly, OHA urges the Committee to **PASS** HB393 HD1.

Mahalo nui for the opportunity to testify on this measure.

creagan3 - Karina

From: mailinglist@capitol.hawaii.gov
Sent: Monday, February 16, 2015 5:41 PM
To: HLTtestimony
Cc: phhlca@aol.com
Subject: *Submitted testimony for HB393 on Feb 18, 2015 08:30AM*

HB393

Submitted on: 2/16/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Bill Brown	Pana'ewa Hawaiian Home Lands Community Association	Support	No

Comments:

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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Honua Consulting

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Wednesday, February 17, 2015 8:30 A.M. State Capitol, Conference Room 329

HB 393 HD 1

TESTIMONY TO HOUSE COMMITTEE ON HEALTH (HLT)

HONUA CONSULTING
Trisha Kehaulani Watson, JD, PhD
Owner

Position

We are strong support of this testimony.

Statement

This measure builds off of numerous measures that have encouraged the state to find mechanisms to streamline the permitting process for traditional Hawaiian fishponds. This is a request that has advocated for by fishpond practitioners, civic clubs and conservationists who recognize the significant environmental and community benefits that are gained from supporting fishpond restoration activities.

This bill has been carefully and narrowly crafted to provide a **waiver** to a limited scope of project activities that have been thoroughly reviewed for any environmental impact through the environmental assessment process. The FONSI, completed in 2013, found that these activities would have no adverse impact on water quality. This statute complies with the language of the Clean Water Act, 33 U.S.C. 1341, which allows for waiver of certification requirements with respect to the applicable federal application. Similar waivers already exist within the current state regulations.

We understand that for some practitioners, this bill does not go far enough, that a complete exemption of all laws for traditional Hawaiian fishponds would be preferred. We do not believe such an option is possible through state legislation, as state legislation cannot preempt federal law.

We believe this bill provides for **the final piece** in streamlining the permitting process, which has been long awaited by the community. HDOH still has full opportunity to review every application that comes through the program, only through a streamlined process led by DLNR OCCL through their Master CDUP, which was passed by the land board last year. All laws and regulations will still be fully complied with – in no way does this reduce existing environmental policies and standards, it only makes the permitting process easier for the many communities throughout Hawai'i eager to help protect these vital resources.

A range of third party partners has rallied to provide support services to community organizations and practitioners to build capacity among practitioners to fully and effectively comply with all the water quality BMPs and conditions. These entities are developing a guidebook, training materials and an annual report to demonstrate the many community and ecosystem services that Hawai'i gains from this streamlined permitting process.

There are also at least four fishponds currently waiting for this final piece to be operationalized so they can begin their restoration activities.

Thank you for the opportunity to testify.

Honua Consulting
www.honuaconsulting.com

From: Graydon <lokoia.consulting@hotmail.com>
Sent: Monday, February 16, 2015 11:31 AM
To: HLTtestimony
Subject: Testimony Submittal HB-393 HD-1
Attachments: CDUA-ST-3703-Hoala-Loko-Ia-Final.pdf

TESTIMONY FOR HB 393 – Relating to Hawaiian Fishponds
HLT on Wednesday 2/18/2015 at 8:30 am

Aloha mai kakou,

My name is Graydon 'Buddy' Keala and I have been working with Hawaiian Fishponds for 30+ years. I have work with over 30 loko on all islands and have restored over half a dozen including processing the arduous permits processes for restoration. I retain a degree in Aquaculture from the University of Hawaii-Manoa, published a Hawaiian Fishpond Manual and spent 8 years on the Office of Hawaiian Affairs-Native Hawaiian Historic Preservation Council. Loko I'a has been my life's work.

While I've always supported the goal of reducing and streamlining the permits required for loko i'a revitalization this legislation unjustly determines that loko i'a pollute. Loko i'a do not pollute, and therefore, should not have been necessary to be waived from acquiring a DOH pollution permit.

In any case, this measure via the DLNR-SPGP has determined that loko i'a cause water pollution and is required to provide water quality monitoring as its pollution control BMP. As a loko i'a expert and practitioner, it is unclear to me why loko i'a are being included as water pollution control in the first place.

In the SPGP, a Pollution Control Planⁱ provides a BMP requirement to measure nutrient enrichmentsⁱⁱ, yet is no evidence that the natural operations under cultural management creates or will create any of this type of pollution for that which we are discussing in this measure.

In practice, loko i'a repair and restoration activities should only require a Water Quality BMPⁱⁱⁱ monitoring protocol to measure impacts from those activities, primarily, Turbidity and Total Suspended Solids. Turbidity would be a visual plume of obvious discoloration and Total Suspended Solids are the partials suspended in the water column from the activity

The pollution control^{iv} monitoring protocol of total nitrogen, ammonia nitrogen, nitrate and nitrite nitrogen, phosphorus and chlorophyll are a measure of nutrients into the system. The major causes of nutrients into our loko i'a and near shore water in Hawaii have been upland fertilizers and run-off.

Loko I'a do not cause pollution issues unless there is intentional nutrient enrichment.

A loko i'a operation choosing a more intensive level of aquaculture could introduce fish food feeding at high rates to increase fish production. At a certain rate, this type of fishpond management does cause nutrient enhancement and may need to be tracked under pollution control monitoring.

By comparison, traditional loko i'a management provides an extensive type of sustainable aquaculture based on lower fish production than that of a commercial-scale aquaculture facility. This system takes available nutrients and assimilates this into a phytoplankton food-base to culture herbivorous fish. Phytoplankton are the

production base of most for loko i'a and are very different than wetlands and estuaries, for which the SPGP parameters are based.

I humbly suggest this language be inserted for WQ monitoring reduction and BMP clarity,

‘...the statewide programmatic general permit and programmatic agreement functions as intended by specifying that a permit applicant that...requires processing of a water pollution control application for fish-feed fed fishponds...has received notice of authorization to proceed from the department of land and natural resources...’.

The language would clarify the SPGP BMP^v requires for typical loko i'a restoration or nutrient enrichment-caused monitoring. In the SPGP BMP streamline the process, all water quality monitoring parameter regimes are all included into one inclusive BMP agreement creating excessive and costly WQ sampling and monitoring schedules.

The insert of this language will allow clarification and discretion for WQ BMP monitoring requirements to actual applied work. This will reduce application confusion early on and save money, time and manpower on non-applicable WQ assessing and monitoring, unless defined by fish feeding.

If you have any questions please don't hesitate to contact me 808.828.1952. Thank you for the opportunity to provide testimony.

Mahalo nui loa,

Buddy Keala –Kia'i Loko

GRAYDON 'BUDDY' KEALA

Loko I'a Consulting
PO Box 1428
Kilauea, HI 96754
808.828.1952 808.227.6648(c)

Free Hawaiian Fishpond Manual web link:

<http://www.ctahr.hawaii.edu/oc/freepubs/pdf/Loko%20I'a%20Full%20Publication.pdf>

Free Hawaiian Fishpond Curriculum Gr. 4-12 web link:

<http://nsgl.gso.uri.edu/hawau/hawaue03001/hawaue03001index.html>

ⁱ CDUA-ST-3707-Hoala-Loko-Ia-Final p.9 Evaluation Criteria 1...nutrient enrichment..

ii CDUA-ST-3707-Hoala-Loko-Ia-Final p.10 Evaluation Criteria 4...no external material for feeding...

iii CDUA-ST-3707-Hoala-Loko-Ia-Final p.15 Water Quality BMP's Turbidity focus only

iv CDUA-ST-3707-Hoala-Loko-Ia-Final p.13 Other impacts...impacts on sediment and run-off? Pollution and Erosion Control Plan and Water Quality Monitoring...

v CDUA-ST-3707-Hoala-Loko-Ia-Final p.38 Exhibit 2-A Fishpond WQ Monitoring & Assessment Protocols...Parameters that will be measured by these protocols include:



CONSERVATION DISTRICT USE APPLICATION (CDUA)

File No:

Acceptance Date:

180-Day Expiration Date:

Assigned Planner:

PROJECT NAME: Ho'āla Loko I'a

Conservation District Subzone:

Identified Land Use:

(Identified Land Uses are found in Hawai'i Administrative Rules (HAR) §13-5-22 through §13-5-25)

Project Address: Statewide nearshore waters and adjoining Conservation District lands

Tax Map Key(s):

Ahupua`a:

District:

County:

Island: Statewide

Proposed Commencement Date: April 2014

Proposed Completion Date: April 2019

Estimated Project Cost:

TYPE OF PERMIT SOUGHT: ☒ **Board Permit** ☐ **Departmental Permit**

- ☐ Boundary Determination (*ref §13-5-17*)
- ☐ Emergency Permit (*ref §13-5-35*)
- ☐ Temporary Variance (*ref §13-5-36*)
- ☐ Site Plan Approval (*ref §13-5-38*)

Note: The four items on the left do not require that a full CDUA be filled out; please complete the first three pages of this application, and refer to the relevant HAR sections for the required documentation.

ATTACHMENTS *(where applicable)*

\$ exempt Application Fee (*ref §13-5-32 through 34*)

\$ _____ Public Hearing Fee (*\$250 plus publication costs; ref §13-5-40*)

- ☐ 20 copies of CDUA for Board and Departmental Permits (*5 hard + 15 hard or digital copies*)
- ☐ Management Plan or Comprehensive Management Plan (*ref §13-5-39 and §13-5 Exhibit 3*)
- ☒ Draft / Final Environmental Assessment or Draft / Final Environmental Impact Statement
- ☐ Special Management Area Determination (*ref Hawai'i Revised Statutes (HRS) 205A*)
- ☐ Shoreline Certification (*ref §13-5-31(a)(8)*) if land use is subject to coastal hazards.
- ☐ Kuleana documentation (*ref §13-5-31(f)*) if applying for a non-conforming kuleana use.
- ☐ Boundary Determination (*ref §13-5-17*) if land use lies within 50 feet of a subzone boundary.

REQUIRED SIGNATURES

Applicant

Name / Agency: Office of Conservation and Coastal Lands

Street Address: 1151 Punchbowl Room 131

Honolulu HI 96803

Contact Person & Title: Michael Cain, Planner

Phone: 808-783-2501

Fax:

Email: michael.cain@hawaii.gov

Interest in Property:

Signature: _____ **Date:** _____

Signed by an authorized officer if for a Corporation, Partnership, Agency or Organization

Landowner (if different than the applicant)

Name:

Title; Agency:

Mailing Address:

Phone:

Fax:

Email:

Signature: _____ **Date:** _____

For State and public lands, the State of Hawai'i or government entity with management control over the parcel shall sign as landowner.

Agent

Agency:

Contact Person & Title:

Mailing Address:

Phone:

Fax:

Email:

Signature: _____ **Date:** _____

For DLNR Managed Lands

State of Hawai'i

Chairperson, Board of Land and Natural Resources

State of Hawaii

Department of Land and Natural Resources

P.O. Box 621

Honolulu, Hawaii 96809-0621

Signature _____ **Date:** _____

PROPOSED USE

Please provide an executive summary of the proposed land use. Attach any site plans, landscaping plans, photographs, maps, and construction plans as needed.

Ho‘āla Loko I‘a is a proposed Statewide Programmatic General Permit and Programmatic Agreement for the repair, restoration, maintenance, and operation of traditional fishpond systems in Hawai‘i

The intent is to provide cultural practitioners with a single application and permit, processed by the Department of Land and Natural Resources (DLNR) Office of Conservation and Coastal Lands (OCCL), which will encompass the five potential permits that are currently required. The program has been designed to be in compliance with seventeen distinct federal and state regulations.

From a regulatory standpoint, OCCL anticipates that the U.S. Army Corps of Engineers will issue a “General Permit” that will delegate to the State the authority to issue permits covered under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). The Section 10 process includes a mandatory consultation with resource agencies, and compliance with the Coastal Zone Management program, the Endangered Species Act, the Clean Water Act §401 Water Quality Certification program, the Magnusson-Stevenson Fishery Conservation and Management Act, the Fish and Wildlife Coordination Act, and the National Historic Preservation Act.

From a practitioners’ standpoint, projects will require a single user-friendly Conservation District Use Application that has been modified to meet the needs of the Ho‘āla Loko I‘a program (Loko I‘a CDUA). The CDUA will ask applicants to discuss the history of the pond, the ecology of the pond system, the applicant’s relationship to the pond and associated ahupua‘a, the proposed work, and the proposed best management practices and water quality monitoring plans that will be followed.

The application will have an associated guidebook that will discuss the federally and state-mandated best management practices for different activities.

From a processing standpoint, OCCL will receive the application and assign it to one of three different tracks for processing.

The first tier will encompass those activities that currently require a Site Plan Approval from OCCL, but that do not trigger the need for federal review. OCCL will issue the permit to the applicant along with general conditions, monitoring protocol, and best management practices, and provide notice of the permit to cooperating agency.

First tier activities include the minor repair, restoration, maintenance and operation of existing fishponds (e.g., replacement of small wall sections, replacement of individual rocks or other wall materials, repair of gates,‘auwai, minor dredging by non-mechanized means and non-routine maintenance of vegetation),construction or placement of minor structures (not to exceed 600 square feet) in the Conservation District that are accessory to the maintenance and operation of a loko i‘a, stocking & harvesting with traditional methods, temporary emergency repair of breaches, and the removal of alien species (e.g. mangroves).

The second and third tiers will encompass those activities that trigger the need for Section 10 Review. Upon receipt of a complete application OCCL will forward the application to resource agencies as appropriate for review. Reviewers will be able to concur with the standard conditions, request additional information from the applicant, seek additional consultation with subject matter area experts, or identify additional and or site-specific conditions, protocols, and BMPs. Once the review is complete notice will be provided to cooperating agencies of the findings, and the applicant will be issued an authorization to proceed. If no concerns or comments are received within thirty days OCCL will have the authority to issue the permit with the standard BMPs and conditions.

Second tier activities include emergency repair of fishponds, and restoration work that involved a change in excess of 10 percent, but no more than 50 percent, in the dimensions of the historic structure.

Third tier activities are those where site-specific conditions, protocols, and BMPs are likely to be required. These include repair and restoration work that is in excess of fifty percent of the original structure fishpond dredging with the use of mechanized equipment, and any activity that may moderately affect or alter sandy beaches or sediment deposition. The Department will retain the discretion to exclude major projects from this process if there is the potential for significant environmental impacts.

Excluded activities that will not be covered by this process include new fishpond construction; activities that are likely to have significant, long-term negative impacts on marine life, water quality, or coastal processes, or coastal access (e.g. activities excluded from authorization under section 2.3.3); activities that are likely to result in take of endangered, threatened, or otherwise protected species or significant damage to special aquatic sites such as wetlands, vegetated shallows, mudflats, coral reefs, and seagrass beds; and the introduction or culture of alien species.

From a research standpoint, OCCL notes that the Final Environmental Assessment (FEA), prepared by Honua Consulting, and Finding of No Significant Impact (FONSI) were published in October 2013. The FEA examined over three decades of research data into fishpond systems, and concluded that the project could result in short-term minimal impacts to water quality, but these would be mitigated by long-term cumulative benefits to the coastal ecosystem in Hawai'i.

Both the KUA Foundation, funded with a grant from the Office of Hawaiian Affairs, and the Castle Foundation, intend to offer technical assistance to practitioners and researchers to conduct baseline studies and long-term monitoring projects that examine the environmental effects of restoration. OCCL intends to encourage other funding agencies, scientists, and universities to conduct additional projects. Our office believes that this project offers researchers an unparalleled opportunity to unite traditional methods of ecosystem management with modern methods of scientific analysis.

In addition, the National Oceanic and Atmospheric Agency (NOAA) Sanctuaries System will take the lead in coordinating a state-wide parallel effort to study the effects of repair, restoration, maintenance, and operation on water quality. These findings will be calibrated against the findings of the water quality testing done by individual ponds.

From the Board of Land and Natural Resources (Board) standpoint, OCCL is requesting that the Board approve the following:

That the Board delegate to the Chair the authority to sign a five-year Programmatic Agreement with the U.S. Army Corps of Engineers for the Ho'āla Loko I'a program, and

That OCCL be given the authority to implement and manage the Ho'āla Loko I'a program as described.

The following attachments have been included with this application:

Exhibit 1: Environmental Regulations, Permits, and Consultations

Exhibit 2: Loko I'a Conservation District Use Application

Attached to Exhibit 2: Fishpond Water Quality Monitoring and Assessment Protocols

Exhibit 3: Flow Chart of Review Process

Exhibit 4: Fishpond Restoration Activities

Exhibit 5: Description of the Review Process

EXISTING CONDITIONS

Please describe existing conditions on the parcel (geology, ecology, cultural and recreational resources, historic resources, structures, landscaping, etc). Attach maps, site plans, topo maps, biological or archaeological surveys as appropriate.

The underwater topography of fishponds and adjacent near-shore areas typically consist of five physiographic zones:

1. Intertidal and near-shore sub-tidal zones consisting mainly of sand and silt;
2. A pond basin characterized by basalt rock, ranging in size from larger boulders to smaller cobble stones;
3. A zone comprised of small stones, known as 'ili'ili, which were used traditionally for a variety of cultural purposes;
4. The structural remains of the fishpond wall, known as the kuapā; and
5. Seaward facing limestone reef flats.

Fishpond systems typically include two major subdivisions of marine benthic habitats: intertidal and sub-tidal. The intertidal region is characterized as “the shore bordered on the seaward side by the reach of ebbing (falling) tides and landward by the reach of flooding (rising) tides.” It is essentially the part of the shore that is intermittently awash or exposed as a result of tidal exchange. Although the boundaries of the intertidal vary with the phase of the moon and the intensity of wave action, the unique geographic location of the Hawaiian Islands provides less than 20 centimeters of tidal exchange.

Hawai'i is primarily surrounded by shallow fringing reefs, providing an ideal topography for the distribution of marine organisms that thrive under these environmental conditions. The constantly immersed sub-tidal zone includes species of marine algae, fish, and invertebrates, such as polychaetes, sea urchins, sea cucumbers and crabs.

With space at a premium, species must constantly take advantage of changes in the physical environment, such as fluctuations in salinity due to rainfall or flooding, and/or newly available substrate caused by a physical disturbance such as herbivory or storm surge. Some of these changes can occur within seconds while others are on a timescale of hundreds of years.

The ahupua'a system, in particular loko kuapā, provided both intertidal and sub-tidal species a refuge and food-rich environment in which to live and reproduce. These ponds offered a complete trophic cycle; sunlight would promote algal growth, herbivorous fish would consume and regulate the algae, predatory fish would regulate the herbivores, crustaceans and filter feeders would filter the water providing healthy conditions for plant and animal life, and bacteria would consume detritus and organic matter.

In order to maximize productivity and yield, Native Hawaiians took into consideration sudden and seasonal changes of coastal topography, wave energy, depth, and biodiversity when designing and erecting each individual pond.

Historically, fishponds provided important ecosystem services to their moku (traditional Hawaiian districts). Research shows that approximately 400 fishponds once functioned across at least six of the inhabited Hawaiian Islands: Hawai'i Island, Maui, O'ahu, Moloka'i, Lāna'i and Kaua'i. Efforts to maintain and restore these systems continue today on all six of these islands.

Fishpond systems have lost function over time due to coastal degradation, fresh water impairment, lack of maintenance, loss of ownership, invasive species, urban development, and natural disasters. Concerns regarding the regulatory hurdles to repairing the ponds date back to the early part of the 20th Century.

Fishponds are categorized into six main types, each specific to a particular geographic area.

Type I – Loko I'a Kuapā: A fishpond of littoral water whose side or sides facing the sea consist of a stone or coral wall, usually containing one or more sluice gates.

Type II – Loko I'a Pu'uone: An isolated shore fishpond usually formed by the development of barrier beaches building a single, elongated sand ridge parallel to the coast and containing one or more

ditches and sluice gates.

Type III – Loko I‘a Wai: An inland freshwater fishpond which is usually either a natural lake or swamp, which can contain ditches connected to a river, stream, or the sea, and which contain sluice gates.

Type IV – Loko I‘a Kalo: An inland fishpond utilizing irrigated taro plots.

Type V – Loko I‘a ‘Ume‘iki: A fishtrap, similar to a Type I – loko i‘a kuapā, which has various combinations of inward and outward leading lanes.

Type VI – Kaheka and Hapunapuna: A natural pool or holding pond.

This General Permit is intended to apply to all traditional styles of loko i‘a that are located within the Conservation District, with an emphasis on the most common loko i‘a kuapā.

Most ponds were built along sheltered seashores or in bays, and were often located near brackish springs or at the mouth of a stream. The loko i‘a took advantage of the momona (fertile) water that has washed through many lo‘i kalo up mauka (in the highlands).

There were two methods of building the wall of a loko i‘a. The first was to construct a wall across the mouth of a small bay or between two close points of land. The second was to run a wall out from two sites on the shore and to connect them with a circular wall creating a full enclosure. Most fishponds were built using the latter method and while all methods were time consuming the latter required a significantly longer wall to be constructed. In areas where two loko i‘a were bordering each other, some ponds were built by using a portion of the existing/ bordering wall precisely because of the amount of physical labor involved in building the walls. There are also a few cases of a third pond being built between two neighboring ponds by connecting a small wall to the opening between them (Kapu‘u). These measures were taken to connect and share pond walls because it took at least a year to build a single pond.

While ponds varied in size, many had walls over 2,000 feet long and the size of the actual kuapā could vary from one to over 500 acres. The largest, Keahupua o Maunaloa, was destroyed in order to create the Hawai‘i Kai housing development.

The longest wall reported for an O‘ahu pond, He‘eia, is 5,000 feet and is currently undergoing restoration. The length of the wall is not always indicative of the overall area of the pond, as some ponds used existing bays, and so have a large pond area with shorter walls. Nonetheless, the discipline and labor needed to construct these kuapā should be noted.

The width of the walls varied from 3 to 19 feet with an average of about 5 feet. They varied from 2 to nearly 6 feet in height depending on the depth of the water. Unlike the loko ‘umeki these walls were not to be submerged during high tide.

The walls were usually constructed of coral and/or basalt. Since some of the stones used in the walls weighed nearly half a ton the most accessible materials were used. In a few cases sand or dirt was added to help bind the wall. In some other cases coralline algae was included to strengthen the wall. The walls were loosely constructed to allow for water to seep in and out according to the tide and therefore preventing stagnation in the pond.

However, this was not the case for two O‘ahu ponds, Wailupe Pond and He‘eia, because both had multiple mākāhā (gates/openings) that provided ample circulation.

Mākāhā were built to allow water and young fish to enter the pond without letting the larger fish escape. The mākāhā were a series of straight sticks tied with beams in an upright standing position. The sticks were fastened close enough together that no fish wider than an inch and a half could pass. This was done not only to trap the grown fish from escaping but also to protect the fish from predators. Although no part of an ancient mākāhā was movable some today can be opened or closed like a gate, while others can be

raised or lowered. It was customary to build a small thatched guard house, hala kia‘i, near the mākāhā for the keeper of the mākāhā to stay.

There were two ways to stock a pond. One way is to allow young fish to enter through the mākāhā and growing too large to exit. The other method required catching young fish measuring ½ to 1 inch long in nets while in shallow bay waters and transporting the live fish to the pond.

When the keeper wanted to harvest or remove fish he would go to the mākāhā during high tide (where the fish would congregate as they were attracted to the incoming seawater) and use a scoop net to catch the number of fish desired. When a large number of fish were desired, an ‘upena ku‘u (a long net) was used. The fish raised in the ponds varied from ‘ama‘ama, awa, awa‘aua, kaku, aholehole, ‘o‘opu, ‘opae and puhi.

In order to prevent the filling of a pond with silt, an entrance, probably with a mākāhā, was sometimes built near the shore on either side of the pond. On the flow of the tide, the water entered through one entrance and washed the silt to the other side of the pond where it would be carried out through that entrance at the ebbing of the tide. This method of cleaning was employed in some of the Moloka‘i ponds.

There is documentation that sometimes a weighted bamboo rake, kope ‘ohe, was used to clean the pond floor. The rake would be towed behind a canoe and the collected matter taken to the sluice. There was no fear that doing so would kick up harmful organic matter or sediments that would negatively affect the pond or ocean. Once or twice a year the maka‘āinana would scoop mud out of the pond to firm the pond floor and maintain it to help keep ecosystem function high

The majority of activities reported are restoration, maintenance and educational activities. These activities include: 1) manual replacement of wall stones dislodged as a result of heavy surf action or natural disrepair, 2) manual removal of wave-deposited sand and rock from the fishpond basin to maintain pond depths, 3) manual removal of mangrove and other invasive species from the fishpond wall and basin to prevent damage to wall, and 4) educational and research activities. It is anticipated that these are the majority of activities that would be conducted under the General Permit.

However, this does not necessarily represent the totality of activities that would be conducted under the auspices of the General Permit. In some cases, contemporary construction methods may be utilized to repair, restore, and maintain and operate Hawaiian fishponds.

To the extent possible, fishpond use and management will follow traditional practices and methods, subject to existing State-regulated fishing methods, seasons, and catch limits. Marine organisms cultured or harvested within the pond will be used for either subsistence purposes, as stocking materials for other fishponds, and for limited commerce.

Activities that will be covered by the program include:

1. Reconstruction, restoration, repair and maintenance of fishpond walls and sluice gates, including but not limited to the placement, movement, manipulation and temporary stockpiling of necessary materials.

2. Placement, movement, manipulation and temporary stockpiling of small stones or rubble for interior wall fill ('ili'ili).
3. Silt removal by hand and/or mechanized equipment from within fishponds to restore original fishpond depth.
4. Vegetation removal by hand and/or mechanized equipment from within fishponds and from fishpond walls.
5. Periodic post-restoration maintenance activities required to facilitate the long-term use, management and operation of fishponds.
6. Use of hand and/or mechanized equipment to conduct fishpond restoration activities.
7. Placement of temporary structures within fishponds, which are necessary to conduct restoration.
8. Placement and use of aquaculture pens, nets, and/or cages within fishponds.
9. Use of harvesting equipment within fishponds.

Activities related to water resources would include, but not be limited to, the following:

1. Clearing of 'auwai, or traditional waterways, to allow for restoration of fresh water flow into the loko i'a, thus restoring functional integrity and ecosystem services;
2. Removal of invasive species from loko i'a that diminish oxygen and other ecosystem services to the pond system;
3. Restoration of pūnāwai, wai hū, waipuna, kele, 'ele, kahawai and/or other fresh water sources for the purpose of restoring functional integrity to the system and ecosystem services; and/or
4. Stocking and breeding native species of flora and fauna using traditional methods for the purpose of restoring functional integrity and ecosystem services to the system.

Activities that are explicitly excluded from authorization or consideration under the Program are those projects that utilize any of the following:

1. Blasting
2. Pile-driving, pre-drilling for pile-driving
3. Activities that penetrate the pond floor
4. New construction or dredging or in-water trenching not related to original fishpond structure/function.
5. Construction of new or expanded effluent discharge systems
6. Construction of new bank stabilization structures
7. Exploration or construction within estuaries or the marine environment that cannot be conducted from a work vessel or an existing bridge, dock, or wharf
8. Any use of treated wood in marine or aquatic habitats (other than pressure-treated)
9. Actions determined for any reason by the technical advisory team to have a significant adverse environmental or cultural impact
10. Use of chemicals inside or outside the fishpond to control or capture organisms
11. Use of live rock or coral to construct or repair fishpond walls or other features
12. Actions that would cause extreme turbidity, purposeful damage to live rock or coral, extreme eutrophication, or other long-term impairment to water quality.

EVALUATION CRITERIA

The Department or Board will evaluate the merits of a proposed land use based upon the following eight criteria (ref §13-5-30 (c)):

1. The purpose of the Conservation District is to conserve, protect, and preserve the important natural and cultural resources of the State through appropriate management and use to promote their long-term sustainability and the public health, safety, and welfare. (ref §13-5-1) How is the proposed land use consistent with the purpose of the conservation district?

The direct and indirect impacts of fishpond repair, restoration, maintenance, and operation on the environment, including, but not limited to nutrient enrichment, turbidity, invasive species, and other biological impacts resulting from the proposed action and alternatives are found to be negligible. The process would only apply to actions that are not likely to cause significant negative long-term impacts to the environment. Avoidance and minimization of impacts will be achieved with BMPs and conditions on permits; otherwise a permit will not be issued under the proposed process.

2. How is the proposed use consistent with the objectives of the subzone of the land on which the land use will occur? (ref §13-5-11 through §13-5-15)

Submerged lands fall, unless otherwise designated, are in the General Subzone of the State Land Use Conservation District. Pursuant to HAR §13-5-13 (a), *The objective of this subzone is to ensure, with proper management, the sustainable use of the natural resources of those areas.*

Traditionally, fishponds were economically, culturally and environmentally critical to the sustainability of Hawai'i's unique and fragile ecosystems. The traditional ahupua'a system, created by the Ali'i Mā'ilikūhāhi, delineated a system that extended from the top of the watershed out to the reef or near shore waters. The near shore fisheries were essential to providing fish and food to the surrounding communities.

Active management of the ponds can also help in the management of invasive species. For example, a common and highly problematic invasive species is the red mangrove (*Rhizophora mangle*). Two other species of mangrove have also been established in the Hawaiian Islands: *Bruguiera gymnorrhiza* and *Conocarpus erectus*. Although mangroves provide important habitats in their native areas, introduction of mangroves to the Hawaiian Islands has caused negative impacts such as reduction in habitat quality for the Hawaiian stilt, (*Himantopus mexicanus knudseni*) and colonization and overgrowth of important cultural sites and biological habitats (such as anchialine ponds). Mangroves, known for their thick and extensive root systems, have proven destructive to kuapā. They enhance sediment deposition and decrease oxygen circulation in the ponds.

A variety of invasive algae also occur in nearshore areas. Habitat characteristics can make certain areas more susceptible to invasion. In healthy coral reef ecosystems, corals and coralline algae dominate with macroalgae and turf algae growth mainly in areas that are difficult for herbivores to access. Phase shifts of coral reefs to algal dominance (from both invasive and native algae) can result in changes in reef community structure and decreased biodiversity.

Both mangroves and invasive algae will need to be managed or removed to restore loko i'a to functionality. Doing so will improve the ecosystem health of both the ponds and the wider area.

3. Describe how the proposed land use complies with the provisions and guidelines contained in chapter 205A, HRS, entitled “Coastal Zone Management” (*see 205A objectives on p. 8*).

The Hawai‘i Coastal Zone Management (CZM) Program has issued a CZMA federal consistency general concurrence for minor federal permit activities for Hawaiian fishpond restoration, repair, maintenance and reconstruction in the State of Hawai‘i.

The program meets the following objectives of Chapter 205A:

Historic resources: The program has undergone §106 (National Historic Preservation Act) review as part of the Corps permit process. It is intended to restore historic resources to functionality, and to help local communities reintegrate these resources into their lives.

Scenic and open space resources: The removal of mangroves and other coastal invasive species will improve coastal open space.

Coastal ecosystems: Best management practices will be in place to protect coastal ecosystems during any construction phase. Active care and management of ponds can have a beneficial effect on water quality and adjoining coral reef health by catching sedimentation and limiting the spread of invasive species.

Economic uses: Fishponds can be utilized for small-scale commercial uses, which will provide direct economic benefits to rural Hawaiian communities and families.

Loko i‘a are not physically suited to host the types of modern commercial aquaculture facilities found in open ocean waters; such high-tech operations would not be covered through this program.

Coastal hazards: Restored seawalls can protect neighboring communities from the effects of large storm waves.

Public participation: The project was initiated by members of the public, and OCCL has consulted with practitioners throughout the development of the program.

4. Describe how the proposed land use will not cause substantial adverse impact to existing natural resources within the surrounding area, community or region.

The Proposed Action and Alternatives involve primarily short-term repair, restoration, maintenance and operational activities. As described in Section 2 of the Final Environmental Assessment, fishpond practitioners have developed and refined many BMPs and monitoring measures for carrying out their activities. As described in Section 3, the existing baseline conditions within the geographic scope of analysis vary with the level of human activity and presence (i.e., from minimally populated rural areas to heavily developed beachfront communities).

The proposed action will result in enhancement of long-term productivity, with no short-term losses. The action does not foreclose on future options, narrow the range of beneficial uses of the environment, or pose long-term risks to health or safety.

There are no irreversible and irretrievable commitments of resources involved in the proposed action. Any work conducted on fishponds can be removed, and ponds can be deconstructed if desired in the future. The proposed action does not include take or harassment of protected species or significant damage to corals or live rock. There will not be any use of chemicals or external materials for feeding or maintaining fishponds that could cause long term damage to water quality or resources. There are no unresolved issues associated with the proposed action.

5. Describe how the proposed land use, including buildings, structures and facilities, is compatible with the locality and surrounding areas, appropriate to the physical conditions and capabilities of the specific parcel or parcels.

The proposed action does not include constructing any new permanent infrastructure in submerged lands, significant discharges of fill material, significant dredging, or using any hazardous materials that could be released into the environment. Therefore, it has been determined that the potential impacts to vegetation, aesthetics, traffic, utilities, population and demographics, public access to the coastline, and air quality, are negligible.

Any new structures will be limited to those that have been traditionally associated with loko i`a, and will not exceed 600 square feet.

6. Describe how the existing physical and environmental aspects of the land, such as natural beauty and open space characteristics, will be preserved or improved upon.

The clearing of mangroves and other coastal invasive species will improve coastal vistas; repaired walls will help protect sediment from flowing into the open ocean; and removing invasive algae will help neighboring coral reefs from being colonized. OCCL does not anticipate any negative impacts on the lands open space or natural beauty.

7. If applicable, describe how subdivision of land will not be utilized to increase the intensity of land uses in the Conservation District.

No subdivision of land is being proposed as part of this project.

8. Describe how the proposed land use will not be materially detrimental to the public health, safety and welfare.

Restoring functional integrity to ponds, through restoration of historic wall structures and removal of invasive vegetation encroaching on the pond ecosystem, could have significant cumulative benefits to Hawai`i's environment and coastal resources and communities. The program could help restore valuable ecosystem services and human capital to coastal areas, which have been degraded due to overpopulation and urbanization.

CULTURAL IMPACTS

Articles IX and XII of the State Constitution, other state laws, and the courts of the State require government agencies to promote and preserve cultural beliefs, practices, and resources of Native Hawaiians and other ethnic groups.

Please provide the identity and scope of cultural, historical and natural resources in which traditional and customary native Hawaiian rights are exercised in the area.

Archaeological and historical evidence suggests that loko i`a were constructed as early as AD 1000, and continued to be built until the 1820's. Fishpond construction intensified beginning in the late 1500's and early 1600's as pre-contact Hawaiian population was rapidly expanding and socio-political systems evolving in complexity.

Historic and cultural sites found within the geographic area of the program include historic structures, burials, fishing shrines, heiau (religious structures), leina (cultural sites from which spirits leapt into the next world), as well as cultural structures related to traditional Hawaiian and Polynesian navigation and seafaring.

The proposal is designed to assist community groups, families, and practitioners in restoring these loko i`a to functionality. Applicants will be expected to respect any historic sites found within the work area; permits will not be issued for projects that would result in the destruction or degradation of shrines, heiau, or leina.

Identify the extent to which those resources, including traditional and customary Native Hawaiian rights, will be affected or impaired by the proposed action.

The application itself requests that applicants discuss the relationship of their hui, family, or community group to the subject pond and the neighboring community. It is geared towards those whose aim is to strengthen traditional and customary rights and practices.

What feasible action, if any, could be taken by the BLNR in regards to your application to reasonably protect native Hawaiian rights?

BLNR's support of this application will help the Department to respect and show support for native Hawaiian rights and practices.

OTHER IMPACTS

Does the proposed land use have an effect (positive/negative) on public access to and along the shoreline or along any public trail?

The program should have no impact on public shoreline access.

Does the proposed use have an effect (positive/negative) on beach processes?

There is no new hardening of the shoreline being proposed under this program. OCCL will consult with the Department's Coastal Engineers if a pond is located adjacent to a sandy beach to determine if restoration will result in an impact.

Will the proposed use cause increased runoff or sedimentation?

Restoration activities are likely to have minor, short-term impacts to turbidity, which is a measure of water clarity. Turbidity can be a natural occurrence in ponds, but it can be exacerbated by erosion and other land-based factors. Turbidity can be minimized through BMPs. Managing turbidity is a necessity of the program, as any factors that would reduce storage capacity of the ponds or impair the environment for cultivation defeats the purpose of restoration and function.

Applications for Tier 2 and Tier 3 activities (*dredging using mechanized equipment; invasive species removal using mechanized equipment; a greater than 10% increase in the pond's dimensions; use of artificial feeds, and any activity that would moderately affect sandy beaches or increase sedimentation*) will be required to submit a **Pollution and Erosion Control Plan** and a Water Quality Monitoring and Assessment Plan.

These plans will draw from the list of required Best Management Practices, as described in the application itself and on the following page. The water quality protocols have been designed so that practitioners can carry them out using locally available test kits. Parameters that will be measured include total nitrogen, ammonia nitrogen, nitrate and nitrite nitrogen, phosphorus, chlorophyll, turbidity, temperature, and dissolved oxygen. Practitioners will report their results to OCCL, who will have the authority to issue stop-work orders, or request additional BMPs, if the results exceed the geometric mean established by the State Department of Health for low wetlands and estuaries.

Will the proposed use cause any visual impact on any individual or community?

Loko i'a are visible to neighboring communities, from coastal roads, and from ocean-goers. Many are in a state of disrepair; OCCL is of the opinion that their repair and maintenance will have a positive visual impact.

Please describe any sustainable design elements that will be incorporated into the proposed land use.

OCCL is of the opinion that the act repairing, restoring, maintaining, and operating traditional fishpond systems, when done in an environmentally and culturally responsible manner, is in and of itself a sustainable activity.

If the project involves landscaping, please describe how the landscaping is appropriate to Conservation District (*e.g. use of indigenous and endemic species; xeriscaping in dry areas; minimizing ground disturbance; maintenance or restoration of the canopy; removal of invasive species; habitat preservation and restoration; et al.*).

Applications involving landscaping that do not trigger Section 10 review will be evaluated based upon the existing Conservation District Rules found in HAR §13-5-22. These are outlined below:

Removal of Invasive Species (§13-5-22 P-4)

- (A-1) Removal of invasive species including chemical and mechanical control methods, not to exceed one acre, in accordance with state and federal laws and regulations, for the purpose of protecting, preserving, or enhancing native species, native habitat, or native ecosystem functions that results in no, or only minor ground disturbance. The department or board reserves the right to require site plan approval, departmental or board approval if it is determined that the proposed action may cause significant negative secondary impacts on natural or cultural resources, or the surrounding community. Any replanting shall be appropriate to the site location and shall give preference to plant materials that are endemic or indigenous to the State. For existing developed lots, compliance with section 13-5-23(L-2) satisfies the requirements of this section.
- (B-1) Removal of invasive species including chemical and mechanical control methods, in an area greater than one acre, in accordance with state and federal laws and regulations, for the purpose of protecting, preserving, or enhancing native species, native habitat, or native ecosystem functions that results in no, or only minor ground disturbance. The department or board reserves the right to require departmental or board approval if it is determined that the proposed action may cause significant negative secondary impacts on natural and cultural resources, or the surrounding community. Any replanting shall be appropriate to the site location and shall give preference to plant materials that are endemic or indigenous to the State.

Land and Resource Management (§13-5-22 P-13)

- (A-1) Basic land management, including routine weed control, clearing of understory, and tree pruning, utilizing chemical and mechanical control methods, which involves no grubbing or grading, in accordance with state and federal laws and regulations, in an area less than one acre.
- (A-2) Planting of native and endemic plants and fence maintenance. New fence ex-closures for small native plants or wildlife communities, in an area less than one acre. The department or board reserves the right to require a site plan approval or a departmental permit or a board permit if it is determined that the proposed action may cause secondary impacts on natural or cultural resources.
- (A-3) Clearing of sand or silt from stream mouths, canals, drainage pipes, or other features for state or county maintenance, provided that the sand removed shall be placed on adjacent shoreline areas unless the placement would result in significant turbidity, as determined by the department.
- (B-1) Basic land management, including routine weed control, clearing of understory, and tree pruning, utilizing chemical and mechanical control methods, which involves no grubbing or grading, in accordance with state and federal laws and regulations, in an area greater than one acre. The department or board reserves the right to require departmental or board approval if it is determined that the proposed action may cause significant negative secondary impacts on natural or cultural resources, or the surrounding community.

OCCL notes that those land uses marked (A) are considered maintenance, and do not require a permit from DLNR. Those land uses marked (B) require a Site Plan Approval. Site Plan Approvals are generally processed “in-house” by OCCL, and are issued with the standard conditions outlined in §13-5. We do not anticipate increasing the regulatory burden of these activities, or any others requiring a Site Plan Approval, with this program.

Please describe the Best Management Practices that will be used during construction and implementation of the proposed land use.

OCCL has compiled and consolidated a list of BMPs that are in compliance with the Rivers and Harbors Act §10, CWA §404, CWA §401, ESA § 7, NHPA § 106, NEPA, MBTA, EFH, FWCA, CZMA, HRS § 183-44, HRS § 183B, and HRS §343. We have grouped these into two broad categories dealing with water quality and protected species. These will be required conditions of any permits for Tier 2 and Tier 3 activities.

Water Quality BMPs

1. **Turbidity and sediment** from project-related work, including work relating to system structures, must be minimized and contained to the immediate vicinity of the authorized activity through the appropriate use of effective sediment containment devices.
2. To the extent practicable, the work must be conducted in the dry season or when any affected stream has minimal to no flow. The site must be stabilized to prevent erosion and runoff, and work must stop during flooding, intense rainfall, storm surge, or high surf conditions. To the extent practicable, work must be done during low tides.
3. No project-related materials (fill, revetment rock, pipe, etc.) shall be stockpiled in the aquatic environment (intertidal zones, reef flats, stream channels, wetlands, etc.) or in close proximity such that materials could be carried into waters by wind, rain, or high surf.
4. All debris and material removed from the marine/aquatic environment shall be disposed of at an approved upland or alternative disposal site.
5. No contamination (by trash, debris sediment, non-native species introductions, attractions of non-native pests, etc.) of adjacent waters of the United States, including special aquatic sites, shall result from project-related activities. Special attention must be paid to the fouling level on barges, vessels, and equipment whereas to minimize the transport and potential introduction and spread of aquatic non-native species. In addition, if dredged or excavated material or structural members are removed from the water or placed in the water, measures must be taken to prevent the spread or introduction of any aquatic non-native species. Additional conditions may be utilized to help meet this condition or related conditions.
6. **Silt fences, silt curtains, or other appropriate containment structures shall be installed to contain sediment and turbidity at the work site (a) parallel to, and within 10 feet of, the toe of any fill or exposed soil which may introduce sediment to an adjacent aquatic site; and (b) adjacent to any fill placed or soil exposed within an aquatic site.**
7. **All silt fences, curtains, and other structures shall be installed properly and permanently stabilized, be self-sustaining, and remain in place until any turbidity levels elevated due to construction have returned to ambient levels.**
8. Erosion controls must be properly installed before any alteration of the area may take place.
9. All disturbed areas must be immediately stabilized following cessation of activities for any break in work longer than 4 days.

Protected Species BMPs

1. All on-site personnel shall be apprised that they are working in an environmentally sensitive area and that endangered or threatened Hawaiian waterbirds, turtles, and monk seals may be in the vicinity of the project.
2. Each authorization will contain the requirement that the authorized entity document and report to DLNR OCCL (and thereby the Corps, NMFS and FWS) all interactions with listed species, including the disposition of any listed species that are injured or killed. Should an ESA-listed species be adversely affected, all work must stop pending re-initiation and completion of consultation between DLNR OCCL, the Corps, NMFS PRD and/or FWS for that action.
3. Constant vigilance shall be kept for the presence of ESA-list species during all aspects of the permitted and/or authorized action(s)
 - a. A responsible party, i.e., site manager / project supervisor, shall designate a competent observer to survey work sites and the areas adjacent to the authorized work area for ESA-listed marine species;
 - b. Surveys shall be made prior to the start of the work each day, including prior to resumption of work following any break of more than one-half hour. Periodic additional surveys throughout the work day are strongly recommended;
 - c. If any federally protected waterbird species appears within 100 feet (30.5 meters) of ongoing, in-water work, work activity shall be temporarily suspended until bird leaves the area of its own accord.
 - d. If a waterbird nest, turtle nest, or monk seal pup or pregnant monk seal is discovered, all work shall cease and DLNR OCCL should be contacted immediately, who shall then notify FWS and/or NOAA immediately.
 - e. All in-water work will be postponed or halted when ESA-listed marine species are within 50 yards of the proposed work, and will only begin/resume after the animal(s) have voluntarily departed the area, with the following exemption: if ESA-listed marine species are noticed within 50 yards after work after already begun, that work may continue only if, in the best judgment of the responsible party, the activity is unlikely disturb or harm the animal(s); and
 - f. No one shall attempt to feed, touch, ride, or otherwise intentionally interact with any protected species.
4. Project footprints must be limited to the minimum area necessary to complete the project.
5. The project area must be flagged to identify sensitive resource areas, such as seagrass beds, coral resources, listed terrestrial plants, and turtle nests.
6. Work located makai of the Mean Higher High Tide Line of a navigable water or makai of the upward limits of adjacent wetlands must be timed to minimize effects on ESA-listed species and their habitats.
7. Project operations must cease under unusual conditions, such as large tidal events and high surf conditions, except for efforts to avoid or minimize resource damage.
8. Additional conditions may be required based on a site-specific analysis of potential biological resources in the area and potential impacts

Please describe the measures that will be taken to mitigate the proposed land use's environmental and cultural impacts.

State and/or federal agencies, including but not limited to DLNR and the Corps of Engineers, will retain the right of reasonable access to projects authorized under the program to monitor compliance with and effectiveness of authorization conditions.

CERTIFICATION

I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application and all attachments and exhibits is complete and correct. I understand that the failure to provide any requested information or misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, or for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the Land Board.

I hereby authorize representatives of the Department of Land and Natural Resources to conduct site inspections on my property. Unless arranged otherwise, these site inspections shall take place between the hours of 8:00 a.m. and 4:30 p.m.

Signature of authorized agent(s) or if no agent, signature of applicant

AUTHORIZATION OF AGENT

I hereby authorize _____ to act as my representative and to bind me in all matters concerning this application.

Signature of applicant(s)

Exhibit 1: Environmental Regulations, Permits, and Consultations

Clean Water Act

Section 301(a) of the Clean Water Act prohibits the discharge of pollutants into “navigable waters” except in compliance with sections 402, 404, and certain other provisions. Navigable waters are defined in section 502(7) as “waters of the United States, including the territorial seas.” “Waters of the United States” are in turn defined as regulation to include wetlands which are adjacent to water bodies which are themselves waters of the United States (e.g., wetlands adjacent to tidal waters, wetlands adjacent to traditionally navigable waters, wetlands adjacent to tributaries of those waters, etc.) and isolated wetlands whose use, destruction, or degradation could affect interstate commerce (40 CFR §230.3(s)). The term “wetlands” is defined by regulation to mean “those areas which are inundated or saturated at a sufficiency and duration to support, and which under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturated soil conditions” (40 CFR §230.3(t)).

In addition to the prohibition of section 301(a), other Clean Water Act requirements application to “navigable waters,” like the development of water quality standards under section 303, water quality management planning under sections 208 and 303(e), enforcement under section 309, etc., also apply to those wetlands which are “waters of the United States.”

Section 101(a) of the Clean Water Act defined the national goal of restoring and maintaining the chemical, physical and biological integrity of the Nation’s waters. Section 303(a)(4) of the Clean Water Act explicitly refers to satisfaction of the antidegradation requirements of 40 CFR 131.21 prior to taking various actions, which would lower water quality. The EPA Region 9 antidegradation guidance specifies: “The first step in any antidegradation analysis is to determine whether or not the proposed action will lower water quality... If the action will not lower water quality, no further analysis is needed and EPA considers 40 CFR 131.12 to be satisfied.”

Section 401

The purpose of § 401 of the Clean Water Act (CWA) is for states to use its process to ensure that no federal license or permit authorizes an activity that would violate the state's water quality standards or become a future source of pollution. A § 401 Water Quality Certification (WQC) covers construction, operation, maintenance and decommissioning of a proposed project, and conditions of the WQC become conditions of the federal license or permit.

5.1.1.2 Section 404

CWA Section 404 establishes a program to regulate the discharge of dredged and fill material into waters of the United States, including wetlands. The U.S. Army Corps of Engineers (USACE) and EPA share responsibility for administering and enforcing Section 404. USACE administers the day-to-day program, including individual permit decisions and jurisdictional determinations; develops policy and guidance; and enforces Section 404 provisions. EPA develops and interprets environmental criteria used in evaluating permit applications, identifies activities that are exempt from permitting, reviews/comments on individual permit applications, enforces Section 404 provisions, and has authority to veto USACE permit decisions.

Section 404 requires a DA permit, issued by the Corps on behalf of the Office of the Secretary of the Army, prior to the discharge of dredged or fill material into any waters of the United States, including wetlands. Discharges of fill material generally include, but are not limited to: placement of fill necessary for the construction of any structure, or impoundment requiring rock, sand, dirt, or other material for its construction; site development fills for recreational, industrial, commercial, residential, and other uses; causeways or road fills; dams and dikes; artificial islands; property protection or reclamation devices such as riprap, groins, sea walls, breakwaters, and revetments; beach nourishment; levees, fill for intake and outfall pipes and subaqueous utility lines; fill associated with the creation of ponds; and other work involving the discharge of dredged or fill material. A DA permit is required irrespective of whether the work is permanent or temporary.

Endangered Species Act

The Endangered Species Act of 1973 (ESA) (16 U.S.C. 1531-1544, 87 Stat. 884, as amended) requires the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) to identify plant and animal species that are threatened or endangered since "...various species of fish, wildlife, and plants in the United States have been rendered extinct as a consequence of economic growth and development untempered by adequate concern and conservation; other species of fish, wildlife, and plants have been so depleted in numbers that they are in danger of or threatened with extinction; these species of fish, wildlife, and plants are of aesthetic, ecological, educational, historical, recreational, and scientific value to the Nation and its people; the United States has pledged itself as a sovereign state in the international community to conserve to the extent practicable the various species of fish or wildlife and plants facing extinction..." Federal agencies are required to assess the effect of any project on threatened and endangered species under Section 7 of the ESA.

Nearly all marine waters, as well as the lower reaches of many freshwater streams, within the Corps' jurisdiction are occupied by ESA-listed marine species. Because the Proposed Action will occur within, near, or upstream of the marine environment, it has the potential to impact ESA-listed marine animals and their habitats across the Program's geographic area.

Section 7

Section 7 of the Endangered Species Act (ESA) requires Federal agencies to ensure that actions they authorize, fund, or carry out do not jeopardize the existence of any species listed under the ESA, or destroy or adversely modify designated critical habitat of any listed species. Thus, Section 7 requires consultation by the Federal 'action agency' (the agency authorizing, funding, or carrying out the action) with the appropriate regulatory agency, either the National Marine Fisheries Service (NMFS) for marine species, or the U.S. Fish & Wildlife Service (USFWS) for terrestrial and freshwater species.

Rivers and Harbors Act

The Rivers and Harbors Act address projects and activities in navigable waters and harbor and river improvements. Several of these Acts provided a number of regulatory authorities, the implementation of which has evolved over time. This profile addresses only those sections that relate to the Corps Regulatory program.

The activities identified and authorized under the Proposed Action and program are likely to trigger the need for authorization by the U.S. Army Corps of Engineers Honolulu District, which is responsible for overseeing and permitting certain activities regulated under Section 10 of the Rivers and Harbors Act of 1899 (Section 10). Structures or work in, above, or beneath navigable waters of the United States require a Department of the Army (DA) permit under Section 10 prior to the commencement of work. The law applies to any dredging or disposal of dredged materials, excavation, filling, rechannelization, or any other modification of a navigable water of the United States, and applies to all structures, from the smallest floating dock to the largest commercial undertaking.

Section 10

Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) prohibits the unauthorized obstruction or alteration of any navigable water of the United States. This section provides that the construction of any structure in or over any navigable water of the United States, or the accomplishment of any other work affecting the course, location, condition, or physical capacity of such waters is unlawful unless the work has been recommended by the Chief of Engineers and authorized by the Secretary of the Army. The Secretary's approval authority has since been delegated to the Chief of Engineers.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (16 U.S.C. 703-712) protects many species of migratory birds. Specifically, the act prohibits the pursuit, hunting, taking, capture, possession, or killing of such species or their nests and eggs. An activity will be determined to have a significant adverse effect when it is found within a reasonable period of time to diminish the capacity of a population of a migratory bird species to maintain genetic diversity, to reproduce, and to function effectively in its native ecosystem.

Fish and Wildlife Coordination Act

The purpose of the Act is to recognize the contribution of wildlife resources to the Nation, the increasing public interest and significance thereof due to expansion of our national economy and other factors, and to provide that wildlife conservation receives equal consideration and be coordinated with other features of water-resources development programs (16 U.S.C. 661). The terms "wildlife" and "wildlife resources", as used in this Act, "include birds, fishes, mammals and all other classes of wild animals and all types of aquatic and land vegetation upon which wildlife is dependent" (16 U.S.C. 666(b)). The Secretary of the Interior, through the U.S. Fish and Wildlife Service (USFWS) is authorized to assist and cooperate with Federal, state and public or private agencies and organizations in the conservation and rehabilitation of wildlife. (The National Marine Fisheries Service (NMFS) provides similar assistance and cooperation for wildlife species under the management responsibilities of the Department of Commerce). 16 U.S.C. 662(a) provides that whenever the waters of any stream or other body of water are proposed to be impounded, diverted, the channel deepened or otherwise controlled or modified, the Corps shall consult with the U.S. Fish and Wildlife Service (FWS), the National Marine Fisheries Service (NMFS) as appropriate, and the agency administering the wildlife resources of the state. The consultation shall consider conservation of wildlife resources with the view of preventing loss of and damages to such resources as well as providing for development and improvement in connection with such water resources development.

Federal Coastal Zone Management Act

The Federal Coastal Zone Management Act of 1972 (as amended 16 U.S.C. 1451, et seq.,) excludes Federal lands from the coastal zone. However, Federal agencies that conduct activities directly affecting the zone must ensure that the activity is consistent with the State's Coastal Zone Management Program. The Hawai'i Coastal Zone Management Program (HRS Chapter 205A), which is administered by the Department of Business, Economic Development and Tourism, Office of Planning, regulates public and private uses in the coastal zone. The objectives and policies of the program consist of providing recreational resources; protecting historic and scenic resources and the coastal ecosystem; providing economic uses; reducing coastal hazards; and managing development in the coastal zone. The Hawai'i Coastal Zone Management Program designates special management areas in the coastal zone, which are subject to special controls on development. These areas extend inland from the shoreline and are established by the county.

National Historical Preservation Act

The Act establishes preservation as a national policy and directs the Federal government to provide leadership in preserving, restoring and maintaining the historic and cultural environment of the Nation. Preservation is defined as the protection, rehabilitation, restoration, and reconstruction of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, or engineering. The Act authorizes the Secretary of the Interior to expand and maintain a national register of districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology and culture, referred to as the National Register.

Federal agencies having direct or indirect jurisdiction over a proposed Federal or federally assisted undertaking shall take into account the effect of the undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register. Federal agencies shall afford the Advisory Council on Historic Preservation a reasonable opportunity to comment on each undertaking (Section 106 (16 U.S.C. 470f)). In addition, Federal agencies shall assume responsibility for the preservation of historic properties that are owned or controlled by the agencies. They also shall establish a program to locate, inventory, and nominate all properties under the agency's ownership or control that are eligible for inclusion on the National Register (Section 110(16 U.S.C. 470h-2)).

Cultural resources include prehistoric and historic artifacts, archaeological sites (including underwater sites), historic buildings and structures, and traditional resources (such as Native American and Native Hawaiian religious sites). Cultural resources of particular concern include properties listed in or eligible for inclusion in the National Register of Historic Places (National Register). Section 106 of the National Historic Preservation Act (16 U.S.C. 470 et seq.) requires Federal agencies to take into consideration the effects of their actions on significant cultural properties. Implementing regulations (36 CFR 800) specify a process of consultation to assist in satisfying this requirement. To be considered significant, cultural resources must meet one or more of the criteria established by the National Park Service that would make that resource eligible for inclusion in the National Register. The term "eligible for inclusion in the National Register" includes all properties that meet the National Register listing criteria specified in Department of Interior regulations at 36 CFR 60.4. Resources not formally evaluated may also be considered potentially eligible and, as such, are afforded the same regulatory consideration as listed properties. Whether prehistoric, historic, or traditional, significant cultural resources are referred to as historic properties.

Magnuson-Stevens Fishery Conservation and Management Act

The Magnuson-Stevens Fishery Conservation and Management Act (Public Law 94-265) (16 U.S.C. 1801-1882, April 13, 1976, as amended) requires that Federal agencies consult with NMFS on activities that could harm Essential Fish Habitat (EFH) areas. EFH refers to “those waters and substrate (sediment, hard bottom) necessary to fish for spawning, breeding, feeding or growth to maturity.”

In 1996, the Magnuson-Stevens Fishery Conservation and Management Act (MSA) was reauthorized and amended by the Sustainable Fisheries Act (Public Law 104-267). The reauthorized MSA mandated numerous changes to the existing legislation designed to prevent overfishing, rebuild depleted fish stocks, minimize bycatch, enhance research, improve monitoring, and protect fish habitat. One of the most significant mandates in the MSA that came out of the reauthorization was the Essential Fish Habitat (EFH) provision, which provides the means to conserve fish habitat.

The EFH mandate requires that the regional Fishery Management Councils, through federal fishery management plans, describe and identify EFH for each federally managed species; minimize, to the extent practicable, adverse effects on such habitat caused by fishing; and identify other actions to encourage the conservation and enhancement of such habitats. Congress defines EFH as “those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity” (16 United States Code (U.S.C.) §1802(10). The term “fish” is defined in the MSA as “finfish, mollusks, crustaceans, and all other forms of marine animals and plant life other than marine mammals and birds.” The regulations for implementing EFH clarify that “waters” include all aquatic areas and their biological, chemical, and physical properties, while “substrate” includes the associated biological communities that make these areas suitable fish habitats (50 C.F.R. §600.10). Habitats used at any time during a species’ life cycle (i.e., during at least one of its life stages) must be accounted for when describing and identifying EFH (National Marine Fisheries Service 2002).

Authority to implement the MSA is given to the Secretary of Commerce through NMFS. The MSA requires federal agencies to consult with NMFS on activities that may adversely affect EFH or when NMFS independently learns of a federal activity that may adversely affect EFH. The MSA defines an adverse effect as “any impact that reduces quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components, if such modifications reduce the quality and/or quantity of EFH.

Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions” (50 C.F.R. §600.810).

Marine Mammal Protection Act

The Marine Mammal Protection Act (16 U.S.C. 1361, et seq.) gives the USFWS and NMFS coauthority and outlines prohibitions for the taking of marine mammals. A take means to attempt as well as to actually harass, hunt, capture, or kill any marine mammal. Subject to certain exceptions, the Act establishes a moratorium on the taking and importation of marine mammals. Exceptions to the taking prohibition allow USFWS and NMFS to authorize the incidental taking of small numbers of marine mammals in certain instances.

National Marine Sanctuaries Act

The National Marine Sanctuaries Act (NMSA) 16 U.S.C. § 1431 et seq. authorizes the Secretary of Commerce to designate as National Marine Sanctuaries areas of the marine environment that possess conservation, recreational, ecological, historical, research, and educational, or aesthetic resources and qualities of national significance, and to provide a comprehensive management and protection of these areas. To protect the area designated, any Federal action that is likely to destroy, cause the loss of, or injure a sanctuary resource must consult with the Secretary of Commerce prior to commencement of the action and adhere to reasonable and prudent alternatives set by the Secretary of Commerce. To the extent practicable, consultation may be consolidated with other consultation efforts under other Federal laws, such as the Endangered Species Act.

The NMSA allows the Secretary to issue regulations for each sanctuary designated and the system as a whole that, among other things, specify the types of activities that can and cannot occur within the sanctuary. The Hawaiian Islands Humpback Whale National Marine Sanctuary (HIHWNMS) was signed into law in November 1992. The Final EIS/Management Plan was released in March 1997, and the final rule was published in November 1999. The sanctuary includes specific areas from the coast of the Hawaiian Islands seaward to the 100-fathom isobath.

Permits and Consultations

The State Programmatic General Permit will seek to include a range of permitting requirements into a single program, thereby helping to facilitate program activities for communities and practitioners who may otherwise lack the financial resources necessary to complete the extensive permitting process.

U.S. Army Corps of Engineers Regional General Permit

Regional General Permits are used to authorize similar activities that cause only minimal individual and cumulative environmental impacts. Regional general permits are developed by individual districts to streamline project review by minimizing duplication of other federal, state and local review processes, while still protecting aquatic resources. Regional general permits may be restricted for use in areas as small as a single residential development, a county, a region of the state, or the entire district.

State of Hawai‘i, Department of Health, Clean Water Branch Requirements

The State of Hawai‘i Department of Health's (DOH) Clean Water Branch (CWB) administers the Clean Water Act § 401 Water Quality Certification program. The State of Hawai‘i § 401 Water Quality Certification program is further administered by Hawai‘i Administrative Rules § 11-54. Under these administrative rules, activities like those proposed under this program that are minor and non-controversial are eligible for a waiver from water quality certification requirements. Specifically, HAR § 11-54-9.1.04 (b) states: “If the discharge resulting from an activity receives a determination to be covered under a nationwide permit authorization, thereby fulfilling specific conditions of that permit pursuant to 33 CFR Sections 330.4, 330.5, and 330.6 then the [State of Hawai‘i] [D]irector [of Health] will determine, on a case-by-case basis, which projects are considered minor and non-controversial. Certification requirements of section 11-54-9.1 shall be waived for minor and non-controversial activities within one year of receipt of a complete water quality certification application.”

National Historic Preservation Act (NHPA) Compliance

Section 106 of the National Historical Preservation Act addresses the need for federal agencies to take into account impacts, if any, that undertakings have on historic properties. Protection of Historic

Properties and Section 106 analysis are regulated under 36 CFR Part 800. This part provides guidelines as to conducting an analysis in assessing when and how to undergo Section 106 review.

The first step in initiating the Section 106 process constitutes determining whether or not a proposed Federal action is an undertaking as defined in 36 CFR §800.16(y), which states: “*Undertaking* means a project, activity, or program funded in whole or in part under the direct or indirect jurisdiction of a Federal agency, including those carried out by or on behalf of a Federal agency; those carried out with Federal financial assistance; and those required a Federal permit, license or approval.” It is likely to be determined that this proposed action is an undertaking as defined in §800.16(y).

The proposed project areas include the coastal land areas, shoreline areas and nearshore ocean waters within the State of Hawai‘i where existing Hawaiian fishponds are located. The specific geographic area of each individual fishpond system is defined by the type of fishpond. NHPA Section 106 requires the agency to “take into account the effect of (an) undertaking on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register (of Historic Places.)” 16 U.S.C. § 470f. NHPA section 101(d)(6)(B) requires agency officials to consult with any Native Hawaiian organization that attaches religious and cultural significance to historic properties that may be affected by an undertaking, regardless of the location of the property.

There may be sites within the geographic area that would meet this definition of historic properties, including, but not limited to: sites related to traditional Hawaiian navigation and other seafaring traditions, traditional Hawaiian fishponds, ko‘a (traditional Hawaiian fishing shrines typically consisting of piles of coral or stone), Hawaiian heiau (religious structures), Native Hawaiian burial sites, leina (places from which spirits leapt into the spirit world), and other cultural heritage properties. NHPA section 106 requires an agency to make a reasonable and good faith effort to identify historic properties, determine whether identified properties are eligible for listing on the National Register, assess the effects of the undertaking on any eligible historic properties found, determine whether the effect will be adverse; and avoid or mitigate any adverse effects. To this end, NHPA regulations require an agency to provide a Native Hawaiian organization, as a consulting party, with “a reasonable opportunity to identify its concerns about historic properties, advise on the identification and evaluation of historic properties, including those of traditional religious and cultural importance, articulate its views on the undertaking’s effects on such properties, and participate in the resolution of adverse effects” 36 CFR § 800.2(c)(2)(ii)(A).

Section 106 of the National Historic Preservation Act (16 U.S.C. 470 et seq.) requires Federal agencies to take into consideration the effects of their actions on significant cultural properties. Implementing regulations (36 CFR 800) specify a process of consultation to assist in satisfying this requirement. To be considered significant, cultural resources must meet one or more of the criteria established by the National Park Service that would make that resource eligible for inclusion in the National Register. The term “eligible for inclusion in the National Register” includes all properties that meet the National Register listing criteria specified in Department of Interior regulations at 36 CFR 60.4. Resources not formally evaluated may also be considered potentially eligible and, as such, are afforded the same regulatory consideration as listed properties. Whether prehistoric, historic, or traditional, significant cultural resources are referred to as historic properties.

Endangered Species Act, Section 7 Consultation

Federally funded programs at the state and local level, such as some habitat restoration projects, require a Section 7 consultation process, which includes a biological assessment. Each federal agency must ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of a listed species in the wild, or destroy or adversely modify its critical habitat.

Essential Fish Habitat

The PIRO NMFS Habitat Conservation Division coordinates with state and federal agencies to conserve EFH. As per the Magnuson-Stevens Fishery Conservation and Management Act (MSA), Federal agencies which fund, permit, or undertake activities that may adversely affect EFH are required to consult with the NMFS.

Fish and Wildlife Coordination Act

Under the Fish and Wildlife Coordination Act, USACE would be required to first consult with the U.S. Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service, as well as with state fish and wildlife agencies regarding the impacts on fish and wildlife resources and measures to mitigate these impacts.

Conservation District Use Permit

Conservation District Use Permits (CDUP) are required for all land uses taking place in the Stat Land Use Conservation District. This includes all submerged lands out to three miles. Conservation regulations and permitting procedures are covered in HAR § 13-5, as authorized under HRS § 183C-3. Pursuant to HAR § 13-5, Land Use means:

1. The placement or erection of any solid material on land if that material remains on the land more than thirty days, or which causes a permanent change in the land area on which it occurs;
2. The grading, removing, harvesting, dredging, mining, or extraction of any material or natural resource on land;
3. The subdivision of land; or
4. The construction, reconstruction, demolition, or alteration of any structure, building, or facility on land.

5.2.3 Coastal Zone Management Consistency Statement

The Hawai‘i Coastal Zone Management (CZM) Program intends to issue a CZMA federal consistency general concurrence for minor federal permit activities for Hawaiian fishpond restoration, repair, maintenance and reconstruction in the State of Hawai‘i. The general concurrence is being established in response to Senate Resolution No. 86, adopted by the Hawai‘i State Legislature on April 10, 2012, which urges the Department of Land and Natural Resources, Department of Health, and Office of Planning to streamline the permitting process for the restoration of Hawaiian fishponds. The resolution also requests the Office of Planning to consider “a coastal zone management program consistency statement for Hawaiian fishponds.” Coastal Zone Management Act (CZMA) federal consistency regulations (15 CFR Part 930) establish procedures for States to issue general concurrences (15 CFR §930.53(b)) allowing similar minor work in the same geographic area to avoid repeated review of minor federal license or permit activities which, while individually inconsequential, cumulatively affect any coastal use or resource. Federal permit activities which satisfy the conditions of the general concurrence are not subject to the consistency certification and review requirements of 15 CFR



FISH POND RESTORATION APPLICATION

File No:
Acceptance Date:
Assigned Planner:
Distribution List:

FISHPOND NAME:

HUI NAME:

Conservation District Subzone:

Project Address:

Nearest Tax Map Key(s):

Ahupua`a:

District:

County:

Island:

Proposed Commencement Date:

Proposed Completion Date:

Wall length

Pond surface area

WORK SUMMARY

\$ _____ Application Fee

- ☐ Construction of accessory structures less than 600 square feet
- ☐ Minor repair, restoration, and maintenance of walls, auwai, makaha, or other
- ☐ Moderate repair and restoration (10 to 50% of original structure)
- ☐ Major repair and restoration (greater than 50% of original structure)
- Linear feet of wall to be repaired
- ☐ Dredging using non-mechanized methods
- ☐ Dredging using mechanized equipment
- Estimated volume of dredging
- ☐ Emergency repair

REQUIRED SIGNATURES

Applicant

Name / Agency:

Street Address:

Contact Person & Title:

Phone:

Fax:

Email:

Interest in Property:

Signature: _____ **Date:** _____

Signed by an authorized officer if for a Corporation, Partnership, Agency or Organization

Landowner (if different than the applicant)

Name:

Title; Agency:

Mailing Address:

Phone:

Fax:

Email:

Signature: _____ **Date:** _____

For State and public lands, the State of Hawai'i or government entity with management control over the parcel shall sign as landowner.

Agent

Agency:

Contact Person & Title:

Mailing Address:

Phone:

Fax:

Email:

Signature: _____ **Date:** _____

For DLNR Managed Lands

State of Hawai'i

Chairperson, Board of Land and Natural Resources

State of Hawaii

Department of Land and Natural Resources

P.O. Box 621

Honolulu, Hawaii 96809-0621

Signature _____ **Date:** _____

HISTORY OF THE POND

Please discuss the history of the pond.

ENVIRONMENTAL CONDITIONS

Please discuss the ecology of the pond. This should include fresh water sources, the nearby coast, and the natural & urban conditions mauka and makai of the pond. Please also note if any endangered or threatened species are found in the pond.

HUI

Please discuss the hui, community group, or family that will be conducting the work. Describe the hui's connection to the pond and the neighboring community.

STATE OF THE POND / PROPOSED WORK PLAN

Please provide a summary of the overall work that would be needed to bring the pond back up to productivity and what work is being proposed under this permit. Please note any use of mechanized equipment

PRODUCTIVITY

Please discuss what species you intend to raise in the pond, and your proposed methods of stocking, raising, and harvesting these species.

BEST MANAGEMENT PRACTICES

Please review the following best management practices (bmps) that will be required for certain activities:

Purpose: To comply with Rivers and Harbors Act, §10, CWA §404, CWA §401, ESA § 7, NHPA § 106, NEPA, MBTA, EFH, FWCA, CZMA, HRS § 183-44, HRS § 183B, HRS §343.

Activities: Dredging using mechanized equipment; invasive species removal using mechanized equipment; a greater than 10% increase in the pond's dimensions; any activity that would moderately affect sandy beaches or increase sedimentation.

Water Quality BMPs

1. Turbidity and sediment from project-related work, including work relating to system structures, must be minimized and contained to the immediate vicinity of the authorized activity through the appropriate use of effective sediment containment devices.
2. To the extent practicable, the work must be conducted in the dry season or when any affected stream has minimal to no flow. The site must be stabilized to prevent erosion and runoff, and work must stop during flooding, intense rainfall, storm surge, or high surf conditions. To the extent practicable, work must be done during low tides.
3. No project-related materials (fill, revetment rock, pipe, etc.) shall be stockpiled in the aquatic environment (intertidal zones, reef flats, stream channels, wetlands, etc.) or in close proximity such that materials could be carried into waters by wind, rain, or high surf.
4. All debris and material removed from the marine/aquatic environment shall be disposed of at an approved upland or alternative disposal site.
5. No contamination (by trash, debris sediment, non-native species introductions, attractions of non-native pests, etc.) of adjacent waters of the United States, including special aquatic sites, shall result from project-related activities. Special attention must be paid to the fouling level on barges, vessels, and equipment whereas to minimize the transport and potential introduction and spread of aquatic non-native species. In addition, if dredged or excavated material or structural members are removed from the water or placed in the water, measures must be taken to prevent the spread or introduction of any aquatic non-native species. Additional conditions may be utilized to help meet this condition or related conditions.
6. Silt fences, silt curtains, or other appropriate containment structures shall be installed to contain sediment and turbidity at the work site (a) parallel to, and within 10 feet of, the toe of any fill or exposed soil which may introduce sediment to an adjacent aquatic site; and (b) adjacent to any fill placed or soil exposed within an aquatic site.
7. All silt fences, curtains, and other structures shall be installed properly and permanently stabilized, be self-sustaining, and remain in place until any turbidity levels elevated due to construction have returned to ambient levels.
8. Erosion controls must be properly installed before any alteration of the area may take place.
9. All disturbed areas must be immediately stabilized following cessation of activities for any break in work longer than 4 days.

Protected Species BMPs

1. All on-site personnel shall be apprised that they are working in an environmentally sensitive area and that endangered or threatened Hawaiian waterbirds, turtles, and monk seals may be in the vicinity of the project.
2. Each authorization will contain the requirement that the authorized entity document and report to DLNR OCCL (and thereby the Corps, NMFS and FWS) all interactions with listed species, including the disposition of any listed species that are injured or killed. Should an ESA-listed species be adversely affected, all work must stop pending re-initiation and completion of consultation between DLNR OCCL, the Corps, NMFS PRD and/or FWS for that action.
3. Constant vigilance shall be kept for the presence of ESA-list species during all aspects of the permitted and/or authorized action(s)
 - a. A responsible party, i.e., site manager / project supervisor, shall designate a competent observer to survey work sites and the areas adjacent to the authorized work area for ESA-listed marine species;
 - b. Surveys shall be made prior to the start of the work each day, including prior to resumption of work following any break of more than one-half hour. Periodic additional surveys throughout the work day are strongly recommended;
 - c. If any federally protected waterbird species appears within 100 feet (30.5 meters) of ongoing, in-water work, work activity shall be temporarily suspended until bird leaves the area of its own accord.
 - d. If a waterbird nest, turtle nest, or monk seal pup or pregnant monk seal is discovered, all work shall cease and DLNR OCCL should be contacted immediately, who shall then notify FWS and/or NOAA immediately.
 - e. All in-water work will be postponed or halted when ESA-listed marine species are within 50 yards of the proposed work, and will only begin/resume after the animal(s) have voluntarily departed the area, with the following exemption: if ESA-listed marine species are noticed within 50 yards after work after already begun, that work may continue only if, in the best judgment of the responsible party, the activity is unlikely disturb or harm the animal(s); and
 - f. No one shall attempt to feed, touch, ride, or otherwise intentionally interact with any protected species.
4. Project footprints must be limited to the minimum area necessary to complete the project.
5. The project area must be flagged to identify sensitive resource areas, such as seagrass beds, coral resources, listed terrestrial plants, and turtle nests.
6. Work located makai of the Mean Higher High Tide Line of a navigable water or makai of the upward limits of adjacent wetlands must be timed to minimize effects on ESA-listed species and their habitats.
7. Project operations must cease under unusual conditions, such as large tidal events and high surf conditions, except for efforts to avoid or minimize resource damage.
8. Additional conditions may be required based on a site-specific analysis of potential biological resources in the area and potential impacts.

Pollution and Erosion Control Plan

If the project involves mechanical dredging please attach a Pollution and Erosion Control Plan for the project. At a minimum, this plan shall include:

1. The Best Management Practices that will be followed;
2. Proper installation and maintenance of silt fences, sausages, equipment diapers, and/or drippans;
3. A contingency plan to control and clean spilled petroleum products and other toxic materials;
4. Appropriate materials to contain and clean potential spills will be stored at the work site, and be readily available;
5. All project-related materials and equipment placed in the water will be free of pollutants;
6. Daily pre-work inspections of heavy equipment for cleanliness and leaks, with all heavy equipment operations postponed or halted until leaks are repaired and equipment is cleaned;
7. Fueling of project-related vehicles and equipment will take place at least 50 feet away from the water, preferably over an impervious surface;
8. A plan will be developed to prevent trash and debris from entertain the marine environment during the project; and
9. All construction discharge water must be treated before discharge.

Water Quality Monitoring and Assessment Protocols

A Water Quality Monitoring and Assessment Plan will be needed for permits that involve mechanical dredging, modification of a rock wall, and feeding of fish using commercial feed. The appropriate water quality standards from HAR Chapter 11-54 State of Hawaii Department of Health Water Quality Standards will be used as reference to compare water quality at each site prior to, during and after construction and operation of any fishpond.

Please review the Water Quality Assessment and Monitoring Protocols attached to this application.

If a plan is triggered for the project, please note below which monitoring procedures you will follow, the timeline for monitoring, and the timeline for reporting results to OCCL. Please attach a map showing the sampling sites for your pond.

CERTIFICATION

I hereby certify that I have read this completed application and that, to the best of my knowledge, the information in this application and all attachments and exhibits is complete and correct. I understand that the failure to provide any requested information or misstatements submitted in support of the application shall be grounds for either refusing to accept this application, for denying the permit, or for suspending or revoking a permit issued on the basis of such misrepresentations, or for seeking of such further relief as may seem proper to the Land Board.

I hereby authorize representatives of the Department of Land and Natural Resources to conduct site inspections on my property. Unless arranged otherwise, these site inspections shall take place between the hours of 8:00 a.m. and 4:30 p.m.

Signature of authorized agent(s) or if no agent, signature of applicant

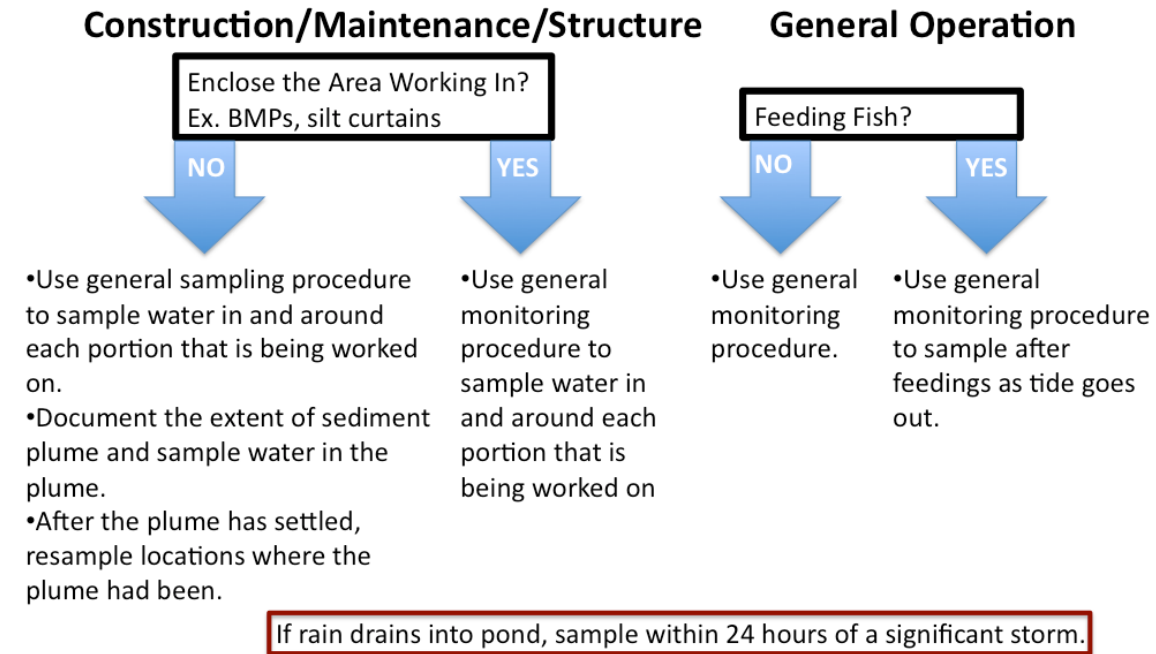
AUTHORIZATION OF AGENT

I hereby authorize _____ to act as my representative and to bind me in all matters concerning this application.

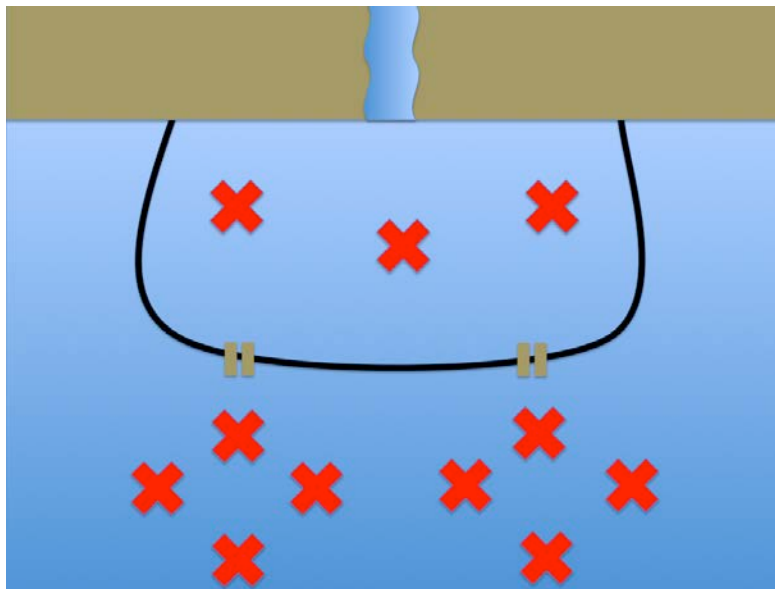
Signature of applicant(s)

Attachment – Water Quality Assessment and Monitoring Protocol

Fishpond Water Quality Monitoring Flow Chart



General Monitoring Procedure Sampling Sites



The parameters that will be measured by these protocols include:

Total Nitrogen

Ammonia Nitrogen

Nitrate + Nitrite

Nitrogen

Total Phosphorus

Chlorophyll a

pH

Turbidity

Temperature

Dissolved Oxygen

Materials needed include:

Water quality monitoring kit or electronic data collecting sondes

GPS

Field transect tape or rope

Reporting Procedures:

Reports the findings of the monitoring will be forwarded to the OCCL, and shared with the State of Hawai'i Department of Health upon request. Final monitoring will be reported at the conclusion of the construction phase, or monthly for operations using commercial feed.

Water Quality Standards:

The appropriate water quality standards from HAR Chapter 11-54 State of Hawaii Department of Health Water Quality Standards will be used as reference to compare water quality at each site prior to, during and after construction and operation of any fishpond. In many cases the appropriate standards are those for all estuaries (§11-54-5.2(2)(1)).

Hawaii State Department of Health Water Quality Standards for Estuaries

Parameter	Mean Not to Exceed	Not to Exceed More than 10% of the Time	Not to Exceed More than 2% of the Time
Total Nitrogen (N/L)	200	350	500
Ammonia (ug)	6	10	20
Nitrate + Nitrite (ug)	8	25	35
Turbidity (NTU)	1.5	3	5
Chlorophyll a (ug)	2	5	10
Total Phosphorus (P/L)	25	50	75
pH ± 0.5 Ambient Must not go lower than 7.0 and higher than 8.6			
Dissolved Oxygen ≥ 75% Saturation			
Temperature ± 1°C			
Salinity ± 10% Ambient (ie for 34 PPT, ± 3.4 PPT)			
Oxidation – Reduction Potential > 100 millivolts in the uppermost 10 cm of sediment			

I. General monitoring procedures

Baseline water quality parameters will be assessed prior to construction/modification of the rock wall. The state of water quality observed at baseline will serve as a reference to compare changes in water quality from fishpond related activities.

Inside the fishpond:

At least 3 locations within the fishpond will be measured at high tide including the two locations furthest from the points of discharge (mākāhā or `auwai) and sampling will occur at a minimum of one location in the center of the pond (see illustration).

Outside the fishpond:

Water quality will be assessed at each point of discharge (just outside the mākāhā and `auwai) at low tide, at a minimum of three sites between 50 – 100 ft directly seaward from the discharge and at 50-100 ft in locations 45° and 135° seaward from the primary sampling location. If levels are above water quality standards, additional sampling will occur at another 100 ft from the primary sampling points in the direction of the flow of the discharge from the fishpond and if the direction cannot be determined, water will be sampled at 200 ft directly seaward from the primary sampling location and at 45° and 135° seaward from the primary sampling location).

II. Construction and dredging procedures

A. When sediment from dredging and construction is contained with BMPs (ie silt curtains, rock walls, etc)

The general monitoring procedure will be implemented before, during and after major activity. Monitoring before the activity will serve as a recent baseline. During the activity, the areas outside the enclosure adjacent to the area to undergo manipulation will be sampled at least once during the activity. When manipulation on a section of the fishpond wall or dredging activity is completed, water quality sampling will be repeated to assess the impacts of newly loosened sediments on water quality.

B. When sediment from dredging and construction is not contained with BMPs

The general procedure will be implemented before, during and after major activity. Monitoring before the activity will serve as a recent baseline. During the activity, the areas immediately adjacent to the area to undergo manipulation will be sampled at least once during the activity and the extent of the sediment transport into the ocean will be measured and mapped with measuring tape, GPS, or other means. When manipulation on a section of the fishpond wall or dredging activity is completed, water quality sampling will be repeated to assess the impacts of newly loosened sediments on water quality.

III. Procedures for operations using commercial fish feed

The general monitoring procedure will be implemented at regular intervals throughout operation. Monitoring will occur daily at outgoing tide for at least the first week of operation. After the first week monitoring will occur weekly at outgoing tide for at least the first four weeks of operation. Long term monitoring may occur biweekly or monthly.

If levels are found to exceed water quality standards for any parameter either during construction/dredging or operation, sampling frequency will increase to calculate the geometric mean, and percentage of time that maximal anomalous readings are occurring.

Flow Chart of Review Process

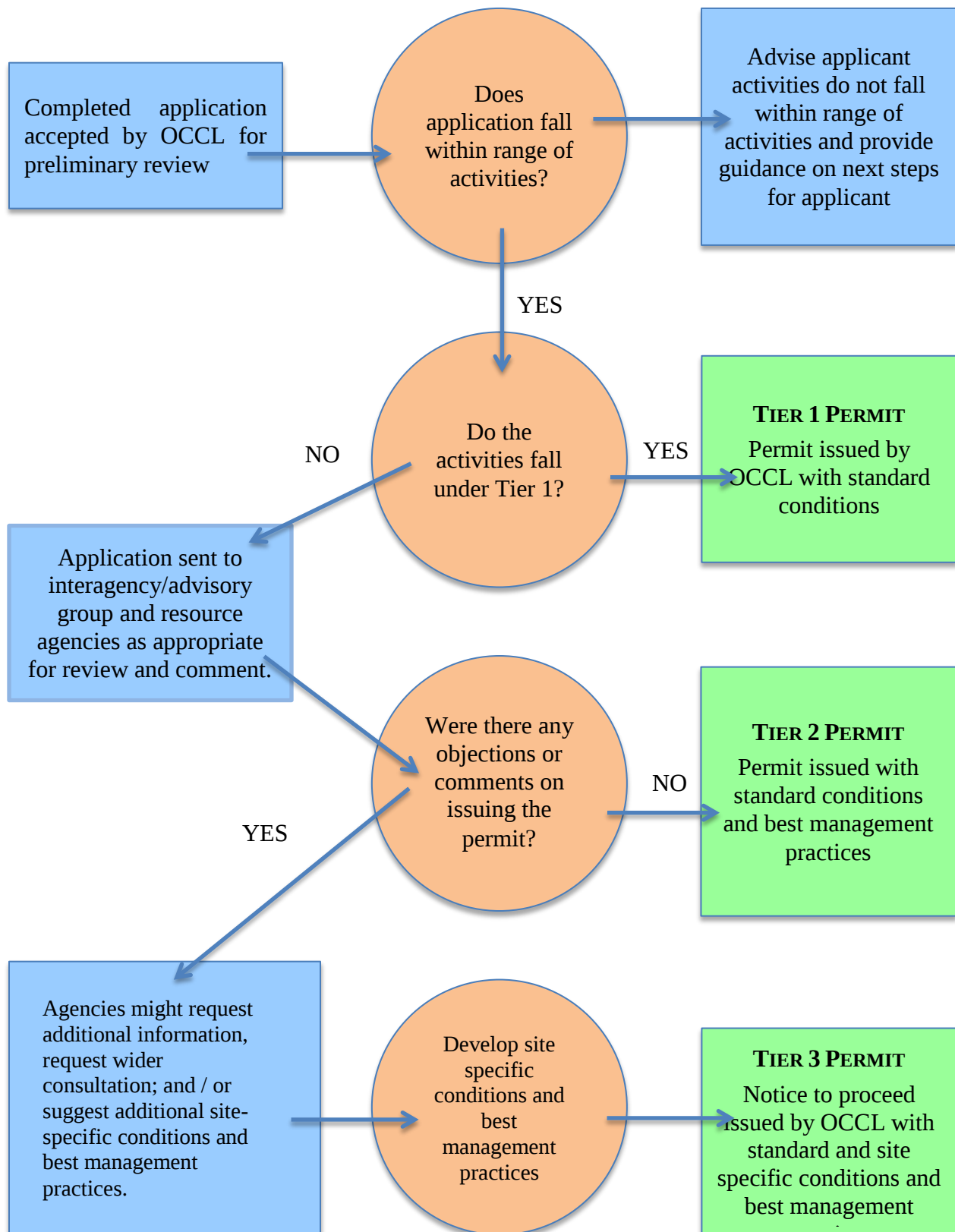


TABLE 1: FISHPOND RESTORATION ACTIVITIES

Activities with potential significant environmental impacts not covered under this EA		New fishpond construction Activities that are likely to have significant, long-term negative impacts on marine life, water quality, or coastal processes/access (e.g. activities excluded from authorization under section 2.3.3) Activities that are likely to result in take of endangered, threatened, or otherwise protected species or significant damage to special aquatic sites such as wetlands, vegetated shallows, mudflats, coral reefs, and seagrass beds Introduction or culture of alien species
Tier III General Conditions, Monitoring and BMPs Additional and Site Specific Conditions;	Legal Authorities Rivers and Harbors Act, §10 CWA §404 CWA §401 ESA § 7 NHPA § 106 NEPA MBTA EFH FWCA CZMA	Fishpond repair, restoration, maintenance, and operation involving work that is in excess of 50 percent of the original fishpond structure , with the caveat that that the Department has the discretion to exclude major projects from the Programmatic Permit due to the potential for significant environmental impacts. Fishpond dredging involving the use of mechanized equipment. Any activity that may moderately affect/alter sandy beaches or sediment deposition.
Tier II General Conditions, Monitoring and BMPs	HRS § 183-44 HRS § 183B HRS §343	Emergency repair Fishpond repair, restoration, maintenance, and operation involving work that is in excess of 10 percent, but less than 50 percent of the original fishpond structure.
Tier I General Conditions, Monitoring and BMPs	Legal Authorities CZMA HRS § 183-44 HRS § 183B HRS § 343	Minor repair, restoration, maintenance and operation of existing fishponds (e.g., replacement of small wall sections, replacement of individual rocks or other wall materials, repair of gates, ‘auwai, minor dredging by non-mechanized means and non-routine maintenance of vegetation), Construction or placement of minor structures (not to exceed 600 square feet) in the Conservation District accessory to the maintenance and operation of a loko i‘a Stocking & harvesting with traditional methods Removal of alien species (e.g. mangroves)
Activities not subject to regulation		Routine maintenance of existing fishpond by hand or with hand-tools and utilizing existing traditional materials

~~TABLE 2: DESCRIPTION OF THE REVIEW PROCESS~~

Activities with potential significant environmental impacts not covered under this EA	Upon review of completed application, applicant is notified that activities are outside the scope of the environmental assessment and/or SPGP and advised to pursue individual permits No notice provided to cooperating agencies
Tier III Additional and Site Specific Conditions; General Conditions, Monitoring and BMPs	Upon review of completed application, applicant is notified that the application is either accepted or that additional information is required Upon receipt of a complete application OCCL forwards application to interagency/advisory group and resource agencies as appropriate for review. Reviewers can respond with one or more of the following: • Request for additional information; • Seek additional review / consultation from cooperating agencies or subject matter area experts; and/or • Identify additional and/or site-specific conditions, monitoring and BMPs. Once the review process is complete, notice is provided to cooperating agencies of findings and/or issuance of authorization to proceed. If no comments or concerns are received within thirty days then the permit will be issued with standard best management practices and conditions.
Tier II General Conditions, Monitoring and BMPs	Upon receipt of a complete application OCCL forwards application to interagency/advisory group and resource agencies as appropriate for review. Reviewers committee can respond with one or more of the following: • Request for additional information; • Seek additional review / consultation from cooperating agencies or subject matter area experts; and/or • Identify additional and/or site-specific conditions, monitoring and BMPs. Once review is complete, notice is provided to cooperating agencies of findings and/or issuance of authorization to proceed.
Tier I General Conditions, Monitoring and BMPs	Upon review of completed application, OCCL issues permit to applicant and may choose to provide BMPs and/or monitoring requirements as conditions on the permit. OCCL provides notice to cooperating agencies.
Activities not subject to regulation	Upon review of completed application, OCCL notifies applicant that activities are not regulated, but provides language to applicant regarding BMPs.

creagan1 - Dannah

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 18, 2015 8:26 AM
To: HLTtestimony
Cc: darakawa@lurf.org
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/18/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
David Z. Arakawa	Land Use Research Foundation of Hawaii	Comments Only	No

Comments: The Land Use Research Foundation of Hawaii SUPPORTS the intent of HB 393, HD1, which waives DOH water quality certification requirement for restoration, repair, and operation of Hawaiian loko i'a (fishponds) that are permitted under the Statewide Programmatic General Permit process, administered by the DLNR.

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creagan3 - Karina

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 17, 2015 4:52 AM
To: HLTtestimony
Cc: paikoman@yahoo.com
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/17/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Lisa Hallett	Individual	Support	No

Comments: Aloha Thank you for reading my testimony. I am in support of Hawaiian fishponds and any support that can be given to their restoration. A waiver for water quality regulation permitting would allow a bit of relief in the magnificent load on restoration of fishponds. Mahalo nui loa, Lisa Andrews Todd Andrews Jessica Andrews

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creagan3 - Karina

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To: HLTtestimony
Cc: burgharc@gmail.com
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/17/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
cheryl	Individual	Support	No

Comments: Anything that helps our host culture sustain their native rights and ways should be done.

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creagan3 - Karina

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 17, 2015 2:34 PM
To: HLTtestimony
Cc: wluna26@aol.com
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/17/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Wilbur Luna	Individual	Support	No

Comments: Hawaiian fishponds have been and continue to be a source of growing and maintaining food not only for Native Hawaiians but for the state population as a whole. The governors, legislature, business and community leaders keep empathizing that Hawaii needs to be independent of foodstuffs being shipped to the islands. Here is yet another way, that the legislature can help facilitate this need. Supporting and voting for the development and maintenance of native fish ponds is a logical way to increase Hawaii's independence from foodstuffs being shipped here. Totally, it will reduce the cost of food to all the citizens of the state. I implore you to vote in favor of HB 393. Mahalo nui loa a me a hui hou!

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From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 18, 2015 12:50 AM
To: HLTtestimony
Cc: albertoh@hawaii.edu
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/18/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Alberto Ricordi	Individual	Support	No

Comments: I support the waiver from DOH water quality certification requirement for restoration, repair, and operation of Hawaiian loko i'a (fishponds).

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creagan1 - Dannah

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 17, 2015 10:05 PM
To: HLTtestimony
Cc: chai.blairstahn@gmail.com
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/17/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Chai Blair-Stahn	Individual	Support	No

Comments: I support this bill because not only will it help revitalize Hawaiian culture, it is also an important step towards food sovereignty and sustainability here in the Islands. Please pass this bill! Thank you.

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creagan1 - Dannah

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 18, 2015 8:07 AM
To: HLTtestimony
Cc: morris.haole@mauicounty.us
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/18/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Morris Haole Jr.	Individual	Support	No

Comments: I support this measure in an effort to protect and foster continued fish pond restoration.

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Sent: Wednesday, February 18, 2015 7:19 AM
To: HLTtestimony
Cc: cualesmile@aol.com
Subject: Submitted testimony for HB393 on Feb 18, 2015 08:30AM

HB393

Submitted on: 2/18/2015

Testimony for HLT on Feb 18, 2015 08:30AM in Conference Room 329

Submitted By	Organization	Testifier Position	Present at Hearing
Constance Keoahunui Uale Warrington	Individual	Support	No

Comments: I support this Bill

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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