Taylor Kellerman, Director  
Diversified Agriculture and Land Stewardship  
Kualoa Ranch  
49-560 Kamehameha Highway  
Kāne‘ohe, HI 96744

Dear Mr. Kellerman,

**SUBJECT: LOKO I‘A PERMIT OA-16-02: MOLI‘I FISHPOND**  
Kualoa Ranch, Hakipu‘u, Ko‘olaupoko, O‘ahu  
TMK (1) 4-9-003:043

The Office of Conservation and Coastal Lands (OCCL) has reviewed the information you sent regarding proposed dredging and other restoration work at Moli‘i Pond on the above subject parcel. The pond was placed on the State Register of Historic Places in 1972.

The pond is thought to be 800 to 900 years old, and has the longest record of continuous operation in the state. Charles Kana‘ina sold the ahupua‘a of Hakipu‘u, including the pond, to the Judd family in 1880. George Uyemura operated the pond from the 1920s to 1999, and Kualoa Ranch has operated the pond since then.

In the late 1800s a wall was built splitting the pond in two, although the wall no longer retains its integrity and fish now travel freely between the two halves. The outer wall is intact, and the original three mākāhā are still functioning. Freshwater sources for the pond include Kailou spring, natural rain channels, and a series of smaller springs sourcing from Hakipu‘u Mauka.

The pond does not contain any known endangered or threatened species.

Moli‘i actively produces ‘ō‘io (bonefish), pāpio (young ulua), lai (queenfish), to‘au (blacktail snapper), Samoan crab, and oysters. Stocking of fish and crabs is done through natural recruitment, with occasional light stocking from the populations in Kāne‘ohe Bay. Weekly harvesting is done through traditional mākāhā trapping, gill nets, pole and line, and crab traps.

In 1986 the Board of Land and Natural Resources approved Conservation District Use Permit (CDUP) OA-1817 for the construction of the pier and the operation of commercial recreational activities in the pond.

Kualoa Ranch proposes to remove accumulated sediment from the bottom of the pond using a mini excavator placed on a floating barge. Only accumulated sediment will be removed, and no activity
will take place on the pond floor. The machine operator will remove dredge spoils using an 18” bucket and then transfer the material to a non-permeable secondary holding bin on the barge. Sediment containment devices will be used in the immediate vicinity of the work area.

The dredging will occur in 8 locations, totaling 29,560 square feet. The dredged material will be taken to a designated spot on the property, outside of the Conservation District.

Kualoa Ranch also proposes to remove mangrove in one corner of the pond to create a protected “pua” pond, or fish nursery. Mangrove will be removed using hand tools.

No change in operations is proposed as part of this application.

OCCL sought comments on the proposal and associated best management plan from DLNR’s Land Division, Division of Aquatic Resources, Division of Forestry and Wildlife, and Historic Preservation; the Office of Hawaiian Affairs; Kua‘aina Ulu ‘Auamo, the Honolulu County Planning Department; the U.S. Army Corps of Engineers; NOAA Fisheries Pacific Islands Regional Office; and the State Department of Health, Environmental Planning Office. The application was also posted on OCCL’s website.

The comments received, along with the applicant’s response, are summarized below:

**DLNR Division of Aquatic Resources (DAR)**

The Division has no major objections to the project, as it is not expected to have significant impacts on water quality provided that all the listed best management practices (BMPs) are followed. The Division is in agreement with the BMPs as described, and would suggest that all silt curtains, barriers, and other sediment containment devices remain in place until turbidity has returned to ambient levels. This would help safeguard against any detrimental algal blooms that could occur with the stirring of the sediment.

**Applicant’s response**

The applicant will follow the Division’s recommendations to leave containment barriers in place until turbidity levels have returned to ambient levels.

**DLNR Land Division**

No comments

**DLNR Division of Forestry and Wildlife (DOFAW)**

No comments

After reviewing the application, OCCL finds that:

1. The proposed work at Möli‘i Pond is consistent with the statewide programmatic general permit for the restoration, repair, maintenance, and operation of loko ʻa (Conservation
District Use Permit ST-3703: Ho‘āla Loko I’a), as approved by the Board of Land and Natural Resources on June 27, 2014;

2. The activities described were covered in the Final Environmental Assessment (FEA) and Finding of No Significant Impact (FONSI) for the Ho‘āla Loko I’a program, which was published on October 23, 2013;

3. The proposal requires the need for a Tier 2 Loko I’a permit signed by the Chair of the Board of Land and Natural Resources;

4. The State Department of Health water quality certifications are waived pursuant to Hawai‘i Revised Statutes (HRS) Chapter 342D WATER POLLUTION, Section 6.5 Hawaiian loko i’a (b) The department shall waive the requirement to obtain water quality certification under this chapter for any person that has received notice of authorization to proceed from the department of land and natural resources office of conservation and coastal lands under the statewide programmatic general permit for the restoration, repair, maintenance, and operation of loko i’a; ¹ and

5. The standard conditions found in Hawai‘i Administrative Rules (HAR) §13-5-42 apply.

Staff supports the DLNR’s Division of Aquatic Resources’ recommendation that sediment containment devices remain in place until any turbidity levels elevated due to construction have returned to ambient levels, and will recommend that the Chair make this a condition of any permit issued.

After careful review of the proposed project, the Department finds that the proposed work will not negatively impact water quality, and authorizes a Tier 2 Loko I’a permit for the dredging and restoration work at Moli‘i Fishpond, Kualoa Ranch, Hakipu‘u, Ko‘olaupoko, O‘ahu, TMK (1) 4-9-003:043, subject to the following standard conditions:

1. The permittee shall comply with all applicable statutes, ordinances, rules, and regulations of the federal, state, and county governments, and applicable parts of this chapter;

2. The permittee, its successors and assigns, shall indemnify and hold the State of Hawai‘i harmless from and against any loss, liability, claim, or demand for property damage, personal injury, and death arising out of any act or omission of the applicant, its successors, assigns, officers, employees, contractors, and agents under this permit or relating to or connected with the granting of this permit;

3. The permittee shall obtain appropriate authorization from the department for the occupancy of state lands, if applicable;

4. All representations relative to mitigation set forth in the application are incorporated as conditions of the permit;

¹ HRS §342D-6.5 was amended by Act 230 (15), Relating to Hawaiian Fishponds, approved by the Governor of the State of Hawai‘i on July 13, 2015. The intent of this Act was to improve state government efficiency and response time in the administration of water pollution control. It allowed most applicants for loko i’a restoration and repair permits to submit a single permit application instead of a series of single-agency applications.
5. The actions outlined in the best management plan submitted with the application are incorporated as conditions of the permit;

6. The permittee understands and agrees that the permit does not convey any vested right(s) or exclusive privilege;

7. In issuing the permit, the department and board have relied on the information and data that the permittee has provided in connection with the permit application. If, subsequent to the issuance of the permit such information and data prove to be false, incomplete, or inaccurate, this permit may be modified, suspended, or revoked, in whole or in part, and the department may, in addition, institute appropriate legal proceedings;

8. Where any interference, nuisance, or harm may be caused, or hazard established by the use, the permittee shall be required to take measures to minimize or eliminate the interference, nuisance, harm, or hazard;

9. The permittee acknowledges that the approved work shall not hamper, impede, or otherwise limit the exercise of traditional, customary, or religious practices of native Hawaiians in the immediate area, to the extent the practices are provided for by the Constitution of the State of Hawai‘i, and by Hawai‘i statutory and case law;

10. Should historic remains such as artifacts, burials or concentration of charcoal be encountered, work shall cease immediately in the vicinity of the find, and the find shall be protected from further damage. The contractor shall immediately contact HPD (692-8015), which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary;

11. Sediment containment devices shall remain in place until any turbidity levels elevated due to construction have returned to ambient levels.

12. Other terms and conditions as prescribed by the chairperson; and

13. Failure to comply with any of these conditions shall render a permit void under the chapter, as determined by the chairperson or board.

Please acknowledge receipt of this approval, with the above noted conditions, in the space provided below. Please sign two copies. Retain one and return the other within thirty days. Should you have any questions feel free to contact Michael Cain at 587-0048.

Sincerely,

Suzanne D. Case, Chairperson
Board of Land and Natural Resources

Receipt acknowledged:

______________________________
Permittee's Signature

______________________________
Date

Copy: DAR, SHPD, County Planning, U.S. Army Corps of Engineers
MEMORANDUM:

To: DLNR
   _ Land Division
   _ Division of Aquatic Resources
   _ Division of Forestry and Wildlife
   _ Historic Preservation Division

   Office of Hawaiian Affairs
   _ Kuaʻaina Ulu ʻAuamo
   _ Hawaiʻi Planning Department
   _ U.S. Army Planning Corps of Engineers
   _ NOAA Fisheries, Pacific Islands Regional Office
   _ Department of Health, Environmental Planning Office

From: Samuel J. Lemmo, Administrator
       Office of Conservation and Coastal Lands

Subject: REQUEST FOR COMMENTS
Mōlīʻi Fishpond Dredging

Applicant: Kualoa Ranch

Location: Hakipuʻu, Koʻolaupoko, Oʻahu

TMK: (1) 4-9-003:043

Please find Loko ʻIʻa Restoration Application OA-16-02 for proposed dredging at Mōlīʻi Pond on the above subject parcel. We would appreciate any comment your office has on the application.

The 125 acre fishpond is on private property owned by Kualoa Ranch, Incorporated, and is in the Resource Subzone of the State Land Use Conservation District. It was placed on the State Register of Historic Places in 1972.

The pond is thought to be 800 to 900 years old, and has the longest record of continuous operation in the state. Charles Kanaina sold the ahupuaʻa of Hakipuʻu, including the pond, to the Judd family in 1880. George Uyemura operated the pond from the 1920s to 1999, and Kualoa Ranch has operated the pond since then.
In the late 1800s a wall was built splitting the pond in two, although the wall no longer retains its integrity and fish now travel freely between the two halves. The outer wall is intact, and the original three mākahā are still functioning. Freshwater sources for the pond include Kailou spring, natural rain channels, and a series of smaller springs sourcing from Hakipu‘u Mauka.

The pond does not contain any known endangered or threatened species.

Mōli‘i actively produces ‘ō‘io (bonefish), pāpio (young ulua), lai (queenfish), to‘au (blacktail snapper), Samoan crab, and oysters. Stocking of fish and crabs is done through natural recruitment, with occasional light stocking from the populations in Kāne‘ohe Bay. Weekly harvesting is done through traditional mākahā trapping, gill nets, pole and line, and crab traps.

In 1986 the Board of Land and Natural Resources approved Conservation District Use Permit (CDUP) OA-1817 for the construction of the pier and the operation of commercial recreational activities in the pond.

Kualoa Ranch proposes to remove accumulated sediment from the bottom of the pond using a mini excavator placed on a floating barge. Only accumulated sediment will be removed, and no activity will take place on the pond floor. The machine operator will remove dredge spoils using an 18” bucket and then transfer the material to a non-permeable secondary holding bin on the barge. Sediment containment devices will be used in the immediate vicinity of the work area.

The dredging will occur in 8 locations, totaling 29,560 square feet. The dredged material will be taken to a designated spot on the property, outside of the Conservation District.

Kualoa Ranch also proposes to remove mangrove in one corner of the pond to create a protected “pua” pond, or fish nursery. Mangrove will be removed using hand tools.

No change in operations is proposed as part of this application.

If no response is received by the suspense date of April 13, 2015, we will assume there are no comments Contact Michael Cain at 587-0048, should you have any questions on this matter.

( ) Comments Attached

( ) No Comments

Signature

Attachment: Loko I‘a application HA-16-01
MEMORANDUM:

To: DLNR
   __ Land Division
   __ Division of Aquatic Resources
   __ Division of Forestry and Wildlife
   __ Historic Preservation Division

From: Samuel J. Lemmo, Administrator
       Office of Conservation and Coastal Lands

Subject: REQUEST FOR COMMENTS
         Mōlī‘i Fishpond Dredging

Applicant: Kualoa Ranch

Location: Hakipu‘u, Ko‘olaupoko, O‘ahu

TMK: (1) 4-9-003:043

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Kualoa Ranch also proposes to remove mangrove in one corner of the pond to create a protected “pua” pond, or fish nursery. Mangrove will be removed using hand tools.

No change in operations is proposed as part of this application.

If no response is received by the suspense date of April 13, 2015, we will assume there are no comments Contact Michael Cain at 587-0048, should you have any questions on this matter.

( ) Comments Attached

✓ No Comments

Attachment: Loko l‘a application HA-16-01
MEMORANDUM

TO: Bruce Anderson, Administrator
DATE: Mar. 17, 2016
FROM: Annette Tagawa, Aquatic Biologist
SUBJECT: Fishpond Permit Application Loko I’a OA-16-02
For Moli‘i Fishpond Dredging

Comment Date Request Receipt Referral Due Date

Requested by: Sam J. Lemmo, Administrator
Office of Conservation and Coastal Lands

Summary of Proposed Project

Title: Request for Comments on Fishpond Permit for Moli‘i Fishpond Dredging,

Project by: Kualoa Ranch

Location: Hakipu‘u, Ko‘olaupoko, O‘ahu, TMK: (1) 4-9-003:043

Brief Description: The applicant proposes to remove accumulated sediment from the bottom of the pond using a mini excavator placed on a floating barge. Only accumulated sediment will be removed and no activity will take place on the pond floor. The machine operator will remove dredge spoils using an 18” bucket and then transfer the material to a non-permeable secondary holding bin on the barge. Sediment containment devices will be used in the immediate vicinity of the work area.

Comments: The Division has no major objections to the proposed project since it is not expected to have significant adverse impact on aquatic resource values in this area provided that all listed Best Management Practices (BMPs) be adhered to. The Division is in agreement with the BMPs that have been suggested by the applicant and would like to emphasize the adherence to having all silt fences, curtains, and other sediment containment devices remain in place until any turbidity levels elevated due to construction have returned to ambient levels. This is would
safeguard against the occurrence of any detrimental algal blooms that may occur with the stirring of the sediment.

Thank you for providing DAR the opportunity to review and comment on the proposed project. Should there be any changes to the project’s plans, DAR requests the opportunity to review and comment on those changes.
MEMORANDUM:

FROM: Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

TO: DLNR
   Land Division

SUBJECT: REQUEST FOR COMMENTS
Mōlī'i Fishpond Dredging

APPLICANT: Kualoa Ranch
LOCATION: Hakipu'u, Koʻolaupoko, Oʻahu
TMK: (1) 4-9-003:043

Please find Loko Iʻa Restoration Application OA-16-02 for proposed dredging at Mōlī'i Pond on the above subject parcel. We would appreciate any comment your office has on the application.

The 125 acre fishpond is on private property owned by Kualoa Ranch, Incorporated, and is in the Resource Subzone of the State Land Use Conservation District. It was placed on the State Register of Historic Places in 1972.

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In the late 1800s a wall was built splitting the pond in two, although the wall no longer retains its integrity and fish now travel freely between the two halves. The outer wall is intact, and the original three mākāhā are still functioning. Freshwater sources for the pond include Kailou spring, natural rain channels, and a series of smaller springs sourcing from Hakipu‘u Mauka.

The pond does not contain any known endangered or threatened species.

Mōlī‘i actively produces ʻōiʻo (bonefish), pāpio (young ulua), lai (queenfish), to‘au (blacktail snapper), Samoan crab, and oysters. Stocking of fish and crabs is done through natural recruitment, with occasional light stocking from the populations in Kāne‘ohe Bay. Weekly harvesting is done through traditional mākāhā trapping, gill nets, pole and line, and crab traps.

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Kualoa Ranch also proposes to remove mangrove in one corner of the pond to create a protected “pua” pond, or fish nursery. Mangrove will be removed using hand tools.

No change in operations is proposed as part of this application.

If no response is received by the suspense date of April 13, 2015, we will assume there are no comments Contact Michael Cain at 587-0048, should you have any questions on this matter.

( ) Comments Attached

(✓) No Comments

Signature

Attachment: Loko Iʻa application HA-16-01
April 25, 2016

Samuel J. Lemmo, Administrator
Department of Land and Natural Resources
Office of Conservation and Coastal Lands
P.O. Box 621
Honolulu, HI 96809

Re: Request for Comments on the Loko I'a Fishpond Restoration Application for the Restoration of Mōli‘i Pond
External Reference No. Loko I'a HA-16-02
Hakipu‘u Ahupua‘a, Ko‘olaupoko Moku, O‘ahu Mokupuni
Tax Map Key (1) 4-9-003:043

Aloha Mr. Lemmo:

The Office of Hawaiian Affairs (OHA) is in receipt of your March 21, 2016 letter requesting comments on the Loko I‘a Restoration Application (Application) for the Mōli‘i Pond (Mōli‘i). Mōli‘i is on private property owned and managed by Kualoa Ranch, Inc.

Kualoa Ranch is seeking a Tier 2 permit under the Application. A Tier 2 permit applies to fishponds that need a moderate level of repair and restoration, allowing for the use of mechanized equipment and the removal of sedimentation in select areas. If the repair and restoration efforts exceed 50% of the dimensions of the original structure, then a Tier 3 permit would be required under the Application.

A Tier 2 permit is appropriate for the restoration of Mōli‘i as the dredging is between 10% and 50% of the entire structure. The restoration work entails dredging sediments with a mini excavator placed on a floating barge. The dredged material will be placed in a designated area on Kualoa Ranch property. Additionally, mangrove will be removed using only hand tools.
Samuel J. Lemmo, Office of Conservation and Coastal Lands
April 25, 2016
Page 2

OHA has reviewed the best management practices within the Application and the requirements for a Tier 2 permit. We have no concerns at this time, and we look forward to participating in the comment process for the conservation district use application, and the U.S. Army Corps of Engineers permits.

As with all subsurface ground disturbances, OHA does request assurances that should iwi kūpuna or Native Hawaiian cultural deposits be identified during any ground altering activities, all work will immediately cease and the appropriate agencies, including OHA, will be contacted pursuant to applicable law.

Mahalo for the opportunity to comment. Should you have any questions, please contact Jeannin Jeremiah at 594-1790 or by email at jeanninj@oha.org.

‘O wau iho nō me ka ʻoia ʻiʻo,

[Signature]
Kamanaʻopono M. Crabbe, Ph.D.
Ka Pouhana, Chief Executive Officer

*Please address replies and similar, future correspondence to our agency:

Dr. Kamanaʻopono Crabbe
Attn: OHA Compliance Enforcement
560 N. Nimitz Hwy, Ste. 200
Honolulu, HI 96817
Fishpond Name: Molii Fishpond  
Date: 2016 MAR 3 11:05
Applicant Name: Kualoa Ranch

Pond location: Kualoa Ranch, Oahu
Nearest Tax Map Key(s): 4-9-03:43
Ahupua'a: Hakipuu  
District: Koolaupoko
Island: Oahu
Commencement Date: April 2016  
Completion Date: July 2016
Wall length: 4000 ft  
Pond surface area: 125 acres

Work Summary

- Operations only
- Construction of accessory structures
- Minor repair and restoration of pond walls, ‘auwai, mākahā, etc.
- Moderate repair and restoration (10% to 50% damage)
- Major repair and restoration (greater than 50% damage)
  - Linear feet of wall to be repaired (rocks on site):
  - Linear feet of wall to be restored (new rock):
  - Source of new rock:
  - Amount of “fill” (expansion beyond original footprint):
- Dredging using mechanized equipment
  - Estimated volume of dredging: 2189 cubic yards
- Vegetation removal using mechanized equipment
  - Estimated acreage:
- Emergency repair
**REQUIRED SIGNATURES**

**Applicant**

Name / Hui: Kualoa Ranch  
Street Address: 49-560 Kamehameha Highway  
Kaneohe, Hawaii 96744  
Contact Person & Title: Taylor Kellerman: Director, Diversified Agriculture and Land Stewardship  
Phone: 808-800-6319  
Email: tkellerman@kualoa.com  
Interest in Property: Steward  

Signature: [Signature]  
Date: 3/1/2016

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

**Landowner (if different than the applicant)**

Name:  
Title; Agency: DLNR  
Mailing Address:  
Phone:  
Email:  

Signature:  
Date:  

*For State-owned ponds, the government entity with management control over the parcel shall sign as landowner.*

**Agent**

Agency:  
Contact Person & Title:  
Mailing Address:  
Phone:  
Email:  

Signature:  
Date:  

**For DLNR Managed Lands**

**State of Hawai‘i**  
Chairperson, Board of Land and Natural Resources  
Department of Land and Natural Resources  
P.O. Box 621  
Honolulu, Hawaii 96809-0621
DESCRIPTION OF THE LOKO I'A

Please discuss the current physical and environmental conditions of the loko i'a. Please also note if any endangered or threatened species are found in the pond.

Molii Fishpond is located on the north side of Kaneohe Bay in the ahupuaa of Hakipuu and is owned by Kualoa Ranch. Fresh water sources for the ponds are Kailou spring and naturally occurring rain channels, and a system of smaller springs sourcing from Hakipuu Mauka. Salt water source for the pond is Kaneohe Bay. Mauka Areas are zoned Agriculture and have minimal urban impact.

Presently the entire wall is intact and contains varying degrees of integrity. Lateral sand migration from Kualoa Beach Park (formerly owned by Kualoa Ranch) resulted in the deposit of sand on the Makai side of the wall during the 20th century. This deposit created a natural accretion that exists today and contains various coastal flora. The three original Makaha remain functional and serve as the main intake sources for makai waters. There is little flora or accretion near the portion of wall containing these operational Makaha. There are two non-functioning Makaha that are believed to have been added in the late 1800's.

The pond contains no known endangered species, and continues to operate as a working Loko I'a with weekly harvests of fish and shellfish. The site is also utilized for visitor education regarding ancient Hawaiian aquaculture method.

HISTORY OF THE LOKO I'A

The Molii Fishpond wall was built before recorded history and it is thought to be between 8-900 years old. There is evidence of repairs done to the wall since its construction, and originally it contained 3 makaha all of which are operational today. The Judd family purchased the ahupuaa of Hakipuu in 1880 from the estate of Charles Kanaina and the sale included Molii Fishpond. Currently it has the distinction of having the longest record of continuous operation in the State of Hawaii. This was possible through its location, ownership, and dedicated konhiki/operators. In the late 1800s a wall and two additional Mahaka were built by the leasing family. The wall separates the pond into two halves, although current integrity is not continuous and species can pass freely from one half to another. The added Makaha are no longer functional. During the 20th century, erosion from north of the pond created a small land mass on the outside of the wall that exists today. George Uyemura operated the pond for 72 years until 1999, and Kualoa Ranch has continued to operate it to the present, most recently adding oysters as an alternative aquaculture crop and water quality enhancement agent. The pond was listed under the Historic Register of Historic Place Listings on Oahu in 1972.

PROPOSED WORK PLAN

Please provide a summary of the work that is being proposed under this permit. Please note any use of mechanized equipment.

-Elimination of sediment around select areas of the pond that has accumulated on the bottom to improve depth and clarity. This would be done using mechanized digging equipment positioned on a floatation device.
Reclamation of a Pua Pond for better fin fish population control including Mangrove and benthos removal. Mangrove removal will occur only in location #6 and will be done using hand tools. The cut material will then be removed from the pond and used as green waste on property.

Description of Mechanical Dredging:

The process of dredging will utilize a mini excavator (see Figure 1) placed on a floating barge that is stablized over the proposed dredge area. The operator of the machine will remove dredge spoils from the pond floor using an 18" bucket and then transfer this material into a non-permeable secondary holding bin also located on the barge. Turbidity and sediment from the area that is actively being dredged will be minimized and contained to the immediate vicinity of the authorized activity through the appropriate use of effective sediment containment devices. Once the secondary holding bin is at capacity the barge will then be relocated to shore where the secondary holding bin will be offloaded and replaced with an empty one and the dredging process will resume. The full bin will then be used to transport the spoil material to the designated location on property (see map 1). Precautions will be taken during the offloading process to ensure operations shall be conducted so as to prevent discharge or accidental spillage of dredge material. Only accumulated sediment will be removed, no activity will take place at or below the pond floor. To ensure this, the equipment operator will receive additional training pertaining to this topic.

There are a total of 8 proposed locations for mechanical dredging (See map 2). The square footage of each proposed area is summarized below (see maps 3-6 for location detail)

Location 1: 1900 ft²
Location 2: 7800 ft²
Location 3: 5000 ft²
Location 4: 3500 ft²
Location 5: 1400 ft²
Location 6: 2400 ft²
Location 7: 810 ft²
Location 8: 6750 ft²

Total: 29,560 ft². The Molii Pond's total footprint is 125 acres, therefore proposed site total is 0.005% of the total surface area.

Average depth of Material to be removed is 2', which equals an approximate volume of material to be removed at 2189 cubic yards.

Proposed Operations Plan

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

The Molii Fishpond actively produces Oio, Papio, Poalu, Lai, Toau, Samoan Crab, and Oysters.
Weekly Harvesting is done utilizing a combination of traditional Makaha trapping, gill nets, pole and line, and crab traps. Present harvest strategy is to focus on predator and invasive species in order to create habitat for the eventual restoration of native herbivore species such as ama'ama and awa.

Oyster cultivation in the pond is certified by the Department of Health, and was implemented in part to control algae blooms thus improving water quality for fin fish. The oysters are also harvested on a weekly basis.

Stocking methods utilized for fish and crabs are natural recruitment with occasional light stocking of the natural fish stock in Kaneohe Bay.

Animal husbandry methods are based on natural habitat preservation. No supplemental feed is added to the pond.
CONSISTENCY WITH HO'ALA LOKO I'A PROGRAM

Please discuss how this proposal is consistent with Conservation District Use Permit (CDUP) ST-3703 (available online at dlnr.hawaii.gov/special-projects) and which tier-level the project falls under.

Kualoa Ranch is seeking a Tier 2 permit for the manual and mechanical removal of sedimentation in select areas, and re-establishment of pua ponds.

According to CDUP ST-3703, 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. The Second Tier activities include dredging using mechanized equipment. There will be no expansion of the original wall’s footprint and or changes to the original structure.

BEST MANAGEMENT PRACTICES

Please discuss the BMPs that will be followed to protect both the environment and the integrity of the pond (users’ guide forthcoming).

-Environmental monitoring will be followed to check daily for protected species, although none have been identified in the area.

-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.

-Project footprints must be limited to the minimum area necessary to complete the project.

-Cultural and archeological monitors will be on site, and workers will be receive orientation regarding the historical and cultural significance of the area.

-Turbidity and sediment from project-related work, including work relating to system structures, will be minimized and contained to the immediate vicinity of the authorized activity through the appropriate use of effective sediment containment devices.

-Visual monitoring will be conducted ongoing throughout the construction and be documented with photographs and written descriptions, if necessary.

-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.

-All debris and material removed from the marine/aquatic environment shall be disposed of at an approved upland or alternative disposal site. No contamination (trash or debris disposal, alien
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]
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

[Signature]
Signature of applicant(s)
Map 5

Location 4

Location 3

200 meters

70 feet