

*Kaho‘olawe Island Reserve Commission*  
*Kūkulu ke ea a Kanaloa - The life and spirit of Kanaloa*



*State of Hawai‘i*



# KAHO‘OLAWE ISLAND RESERVE FY16 YEAR-IN-REVIEW

*July 2015 — June 2016*

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# ALOHA

# INSTAGRAM FY16: @KIRCKAHOOLAWE



What a year we had in 2016! Last year's first-ever funding by the State of Hawai'i was just adequate to continue our programs and operations at a level where prior work and facilities could be maintained, while this year's supplemental funding allowed us to progress with our natural, ocean and cultural resources management efforts. We are extremely grateful for this support.

Just as our on-island programs adapt to the challenges that face Kaho'olawe, (e.g. remote location; harsh, hot, dry, windy physical environment; ongoing presence of unexploded ordnance), staff and commissioners have adapted to a new financial reality. The annual budget averaging \$2.7M in recent years was reduced to \$1.6M. Had supplemental funding not been secured, our projects and operations would have suffered.

As the County's KIRC representative, I am honored that Mayor Arakawa and the County Council have supported funding for various Kaho'olawe projects: beginning in FY11, with an initial grant of \$5,000 for native plant seedlings; \$25,000 between FY12 - FY16 (\$100,000 total to date) to convert Honokanai'a's base camp facilities to photovoltaic energy; FY15's \$20,000 for the Mahina'ai Nights program at the Kihei Boat House, in partnership with the Hawai'i Tourism Authority; and FY16's \$20,000 for a new trailer for the 'Ohua landing craft— our lifeline between Maui and Kaho'olawe.

Thirty to fifty percent of KIRC's Kaho'olawe volunteers come from Maui County annually, totaling thousands over the years. After personnel cutbacks and a first-ever reduction in volunteer work trips due to manpower limitations in FY15, KIRC has been able to restore some staff positions and resume a more robust volunteer program in FY16. This benefits Maui County's students, halau, canoe clubs, businesses, non-profits, community groups and individuals who have been enriched and enlightened by their experiences on, and giving to, Kaho'olawe. Maui County's support of the KIRC is reciprocated many times over by what Kaho'olawe provides in return. We look forward to this continued relationship in the years to come.

— Michele McLean, KIRC Chair



One of our key objectives in creating financial sustainability for the KIRC is to establish permanent funding for Kaho'olawe within the Hawai'i State budget. We were fortunate this year to have received financial support from the legislature in the form of Act 84/SLH2015 for fiscal years 2015 and 2016, with additional supplemental funding for fiscal year 2016 in Act72/SLH2016.

This funding has been critical to the continuation of our restoration programs, as the initial federal investment made in 1993 is nearly depleted. While actively managing Kaho'olawe's vast resources, our conservation and education work provides a unique opportunity to introduce, encourage and develop the next generation of land, ocean and cultural resource managers through an integrated mauka-to-makai volunteer program that features hands-on experience within a cooperative natural and cultural resource management system. Our consolidated authority for the Island and its surrounding waters allows the creation of an exceptional workforce development program for Hawai'i's future natural and cultural resource workforce, leaders and supporters that will be sorely needed to protect Hawai'i moving forward. Intergenerational volunteers gain knowledge in the KIRC's ocean and land management practices as they contribute to Kaho'olawe's restoration and develop a lifelong interest in conservation. College students in the KIRC's Hui Kāpehe internship program gain practical and valuable certificate training to prepare them for entry into the conservation workforce, while graduate students at the University of Hawai'i at Mānoa are applying their engineering degrees to research solutions to Kaho'olawe environmental issues.

We look forward to an exciting new year as we help prepare the next generation to carry on the work handed to us from our kūpuna.

— Michael K. Nāho'opī'i KIRC Executive Director



Fountain grass survey



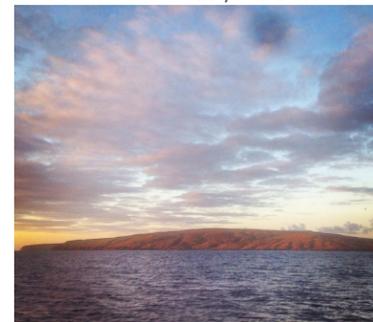
Fuel operations



Rock/ mulch corridors



Pu'u honua



Kaho'olawe



UH Law volunteers



Oral history interview with U.S. Navy



Kihei Charter School volunteers



Supply delivery



Kipuka

## WHO WE ARE

### Kūkulu Ke Ea A Kanaloa

*The life & spirit of Kanaloa builds and takes form*

Established by the Hawai'i State Legislature in 1994, the mission of the Kaho'olawe Island Reserve Commission (KIRC) is to implement the vision for Kaho'olawe Island in which **the kino (body) of Kaho'olawe is restored and nā poe o Hawai'i (the people of Hawai'i) care for the land.** The organization is managed by a seven-member Commission and a committed staff specializing in five core programs: Ocean, Restoration, Cultural, Operations and Administration.

## WHAT WE DO

- The OCEAN Program manages all marine resources within the Reserve.
- The RESTORATION Program restores native, land-based habitats and watersheds.
- The CULTURAL Program provides for the expansion of meaningful, cultural use of the island.
- The OPERATIONS Program provides transport, maintenance, manpower and safety.
- The ADMINISTRATION Program manages volunteers, GIS, outreach, collections, fund development, finances and human resources.

## WHY WE DO IT

*The KIRC Vision:*

The kino of Kanaloa is restored. Forests and shrublands of native plants and other biota clothe its slopes and valleys. Pristine ocean waters and healthy reef ecosystems are the foundation that supports and surrounds the island.

Nā po'e o Hawai'i care for the land in a manner which recognizes the island and ocean of Kanaloa as a living spiritual entity. Kanaloa is a pu'u honua and wahi pana where native Hawaiian cultural practices flourish.

The piko of Kanaloa is the crossroads of past and future generations from which the native Hawaiian lifestyle is spread throughout the islands.



Hui Kāpehe



Mahina'ai Night, Kihei Site



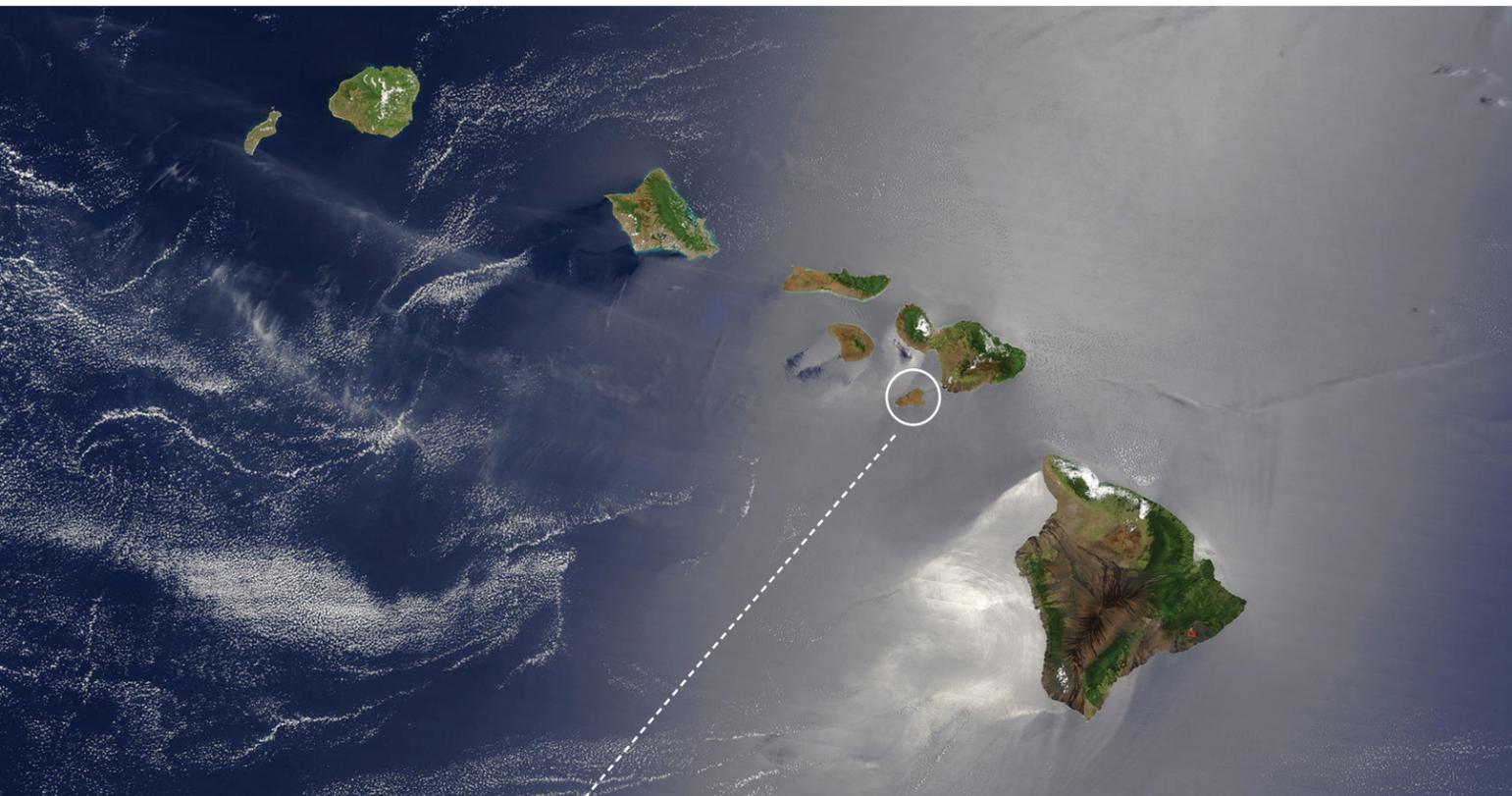
Hardpan



Volunteers at Base Camp

# KAHO'OLAWE ISLAND RESERVE

# CHALLENGES



Kaho'olawe is the smallest of the eight main islands in the Hawaiian Archipelago. Eleven miles long, seven miles wide and comprised of 28,800 acres, the island is of volcanic origin with the highest elevation of 1,477 feet. Its slopes are fissured with gulches 50 to 200 feet deep. Approximately 30% of the island is barren due to severe erosion. Formidable cliffs dominate the east and south coast.

From 1941 to 1994, Kaho'olawe and its surrounding waters were under the control of the U. S. Navy; used with allies as a live-fire training area. Despite clearance efforts, unexploded ordnance (UXO) is still present and continues to pose a threat to the safety of anyone accessing the island or its waters.

A decades-long struggle by the people of Hawai'i, particularly the Protect Kaho'olawe 'Ohana (PKO), succeeded in stopping the bombing of Kaho'olawe and helped to spark the rebirth and spread of Native Hawaiian culture and values. A 1994 act of Congress conveyed the island back to the State of Hawai'i, although the Navy was held responsible for a 10-year cleanup of UXO and retained control over access to the island until November 2003.

A treasured resource for all of Hawai'i's people, Kaho'olawe is of tremendous significance to the Native Hawaiian people. In recognition of the special cultural and historic status of Kaho'olawe, the island and the waters within 2 nautical miles of its shores were designated by the State of Hawai'i as the Kaho'olawe Island Reserve in 1993; established for the preservation of traditional Native Hawaiian cultural, spiritual and subsistence purposes, rights and practices. This includes preservation of Kaho'olawe's archaeological, historical, and environmental resources; rehabilitation, revegetation, habitat restoration; fishing and education.

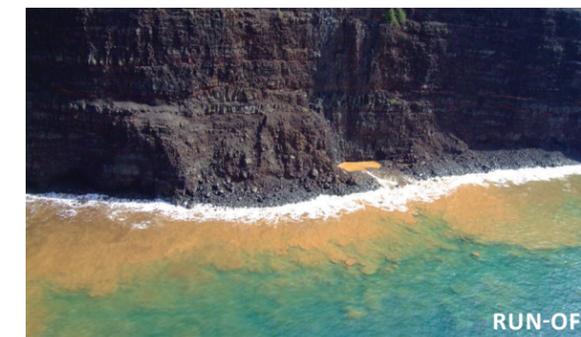
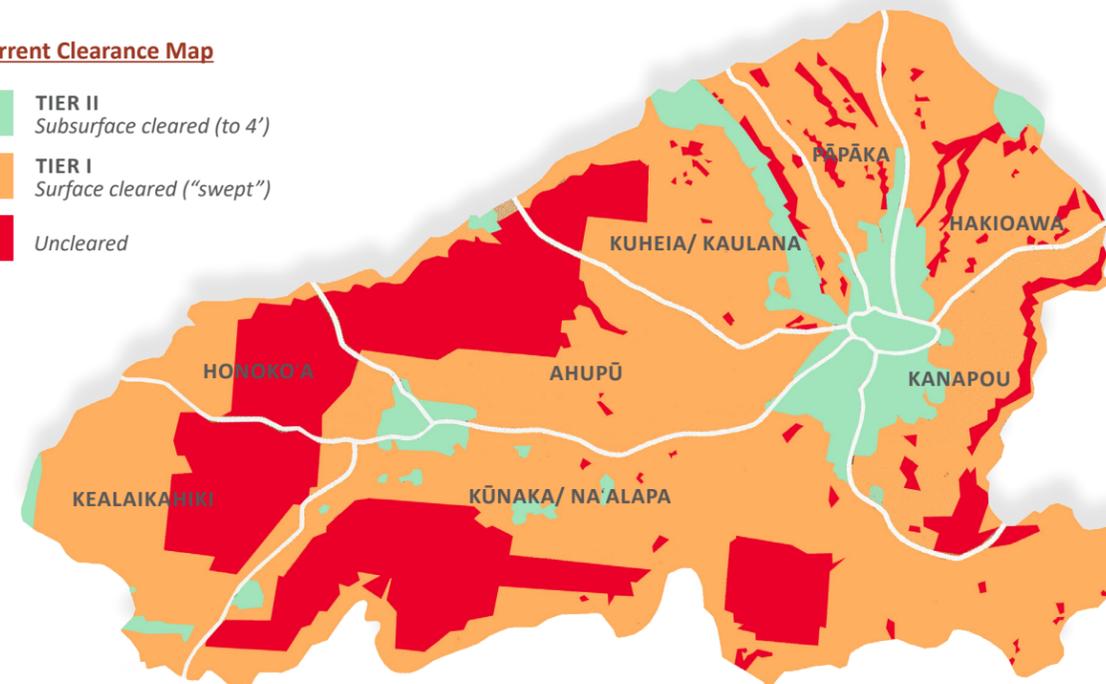
In 1994, the Kaho'olawe Island Reserve Commission (KIRC) was established by the State of Hawai'i, under the Hawai'i Revised Statutes, Chapter 6K, to manage Kaho'olawe, its surrounding waters, and its resources, in trust for the general public and for a future Native Hawaiian sovereign entity.

The KIRC gives dimension to its purpose within its vision statement, which calls not only for the Reserve's environmental restoration, but also for the restoration and growth of Native Hawaiian cultural practices through human access and interaction within the Reserve.

Decimated of its natural environment through years of **over-foraging** and military **bombing**, an estimated 1.9 million tons of soil is lost annually on Kaho'olawe to **erosion**. Severely eroded landscapes cover one-third of the island, with **runoff** choking the Reserve's pristine reefs and significantly impacting the ocean ecosystem. The Reserve's inventory of 3,000 historic sites and features — all part of the National Register of Historic Places — are in constant need of **protection** from these damaging conditions. Despite an extensive, 10-year cleanup by the Navy, **unexploded ordnance (UXO)** litters one-third of the island plus all surrounding waters, leaving areas life-threatening and off-limits.

### Current Clearance Map

- TIER II  
Subsurface cleared (to 4')
- TIER I  
Surface cleared ("swept")
- Uncleared



## BACKGROUND



"This was life changing, for both myself, my colleagues and the students we accompanied. The hard work of the KIRC staff and the cultural significance cannot be quantified, it is immeasurable. The experience on Kanaloa gave my students, colleagues and myself an opportunity to live our schools creed "Whenever you can, HELP!" in a significant way." Michelle Bradley, Volunteer

Photo: Bryan Berkowitz, Volunteer

## FREQUENTLY ASKED QUESTIONS

### "What happened to the money?"

Until Fiscal Year 2016, KIRC funding came largely from a limited trust fund established in 1994 during the federal unexploded ordnance cleanup of Kaho'olawe. This federal appropriation totaling \$44 million, (AVG: \$2M per year), though considerable, was not substantial enough to establish an endowment for the long-term restoration of Kaho'olawe. Today, the KIRC appeals to the State of Hawai'i for support through legislative bills; to grant makers for specific project support; and to individuals through donations, memberships and permit fees.

### "Did you clean up all of the bombs?"

The United States Navy is forever responsible for removing all unexploded ordnance (bombs) from the land and waters of Kaho'olawe — and the liability associated with its presence. The KIRC remains committed to that position and relies on the Federal Government to fulfil their obligation. Upon the 2004 completion of the Navy's cleanup, approximately 75% of the surface of the island was swept of ordnance with only 10% cleared down to the depth of four feet (see p.4). Areas that have not been cleared remain "DANGEROUS TO THE PUBLIC AND ARE NOT SAFE." As formally agreed by the Navy and State, the Navy will return to dispose of any new unexploded ordnance (UXO) found in cleared areas. The KIRC has made regular requests to our Congressional delegation for Federal funds for the Navy to complete their obligation.

### "What do you do out there?"

In addition to a variety of projects to restore Kaho'olawe's devastated landscape; protect its critical natural and cultural resources; and make vital improvements to the island's infrastructure, we are developing an integrated *mauka to makai* resource management system that balances the technical aspects of modern conservation principles with a traditional cultural perspective.

### "Can I fish over there?"

Trolling is permitted on two scheduled weekends each month in waters deeper than 30 fathoms (180 feet). No other fishing, ocean recreation or activities are allowed within the Reserve. (Visit [kahoolawe.hawaii.gov/announce](http://kahoolawe.hawaii.gov/announce) to download a Trolling Right of Entry Registration Packet). The rules governing Reserve waters are enforced by the State of Hawai'i, Department of Land and Natural Resources, Division of Conservation and Resources Enforcement (DOCARE), the KIRC and the U.S. Coast Guard. Any person violating these rules is guilty of a petty misdemeanor and shall be fined up to \$1,000 or imprisoned for up to 30 days. The KIRC may also assess administrative fines of up to \$10,000 per offense.

### "Why don't you take more people?"

The KIRC's work on Kaho'olawe is critically dependent upon its volunteers. We strive to make the most of our limited volunteer opportunities, but we are primarily restricted by available funding, safety and weather conditions. The number of requests we receive to go to Kaho'olawe far exceeds our ability to take everyone, therefore we ask for your patience and understanding.

### "How can I help?"

Pick your favorite way/s to connect with us (social media, newsletter, email list) to learn about work days and community events at our Kīhei Boat House site; join the Kaho'olawe volunteer waitlist; invite the KIRC to your space as a (free) speaker; read/learn about/ share our online library and learning materials; testify at one or more legislative hearings; create a Kaho'olawe-inspired work of art to be shared; become a member; enroll as an intern; or let us know your own idea. (See p. 25)

**13**  
years managing Kaho'olawe

**28,800**  
acres of land

**410,000**  
native plants (re) introduced

**1,477**  
feet: highest elevation

**3,000**  
cultural sites listed on the National Register of Historic Places

**11,826**  
volunteers escorted & trained on-island

**45**  
tons of marine debris removed

**! WARNING! !**  
**UNEXPLODED ORDNANCE DANGER**

Entrance into Kaho'olawe Island Reserve can cause **SERIOUS INJURY** or **DEATH!**

Unauthorized entrance into Kaho'olawe and into the water within two miles of Kaho'olawe is prohibited

### EARLY CONTACT

1778: British ships under command of Captain Cook arrive in the islands.  
1793: Captain George Vancouver gives Chief Kahekili of Maui a gift of goats, which are then placed on Kaho'olawe.

### MILITARY PERIOD

1941: Kaho'olawe taken by U.S. Navy.  
1976: Protests and occupation begin.  
1981: Kaho'olawe placed on National Register of Historic Places.  
1990: President George H.W. Bush stops bombing.  
1993: U.S. Congress votes to end military role on Kaho'olawe, KIRC is created, Title is transferred to the State of HI.

### CLEAN WATER ACT

2004 — 2016: The Hawai'i Department of Health's Polluted Runoff Control Program provides nearly \$1.9 million in CWA section 319 funding, supplemented by nearly \$1.9 million in matching funds from volunteer restoration activities. Collectively, these funds allow KIRC to make considerable progress in its effort to begin restoring 2 targeted watersheds by implementing innovative methods to minimize erosion and reduce sediment loads moving from the land into the ocean.

### RANCHING PERIOD

1858: Government leases Kaho'olawe to R.C. Wyllie and Elisha Allen for 20 years.  
1859: Approximately 2,000 sheep are released on island.  
1910-1918: Governor Walter Frear makes island a Forest Reserve under control of the Board of Agriculture.

### UXO CLEANUP

1997—1998: U.S. Navy awards contracts for the removal of unexploded ordnance on Kaho'olawe and commences the Kaho'olawe UXO Clearance Project.  
2003: Transfer of access control is returned from the U.S. Navy to the State of Hawai'i in a ceremony at 'Iolani Palace.  
2004: U.S. Navy ends the Clearance Project.

### ALOHA KAHO'OLAWA

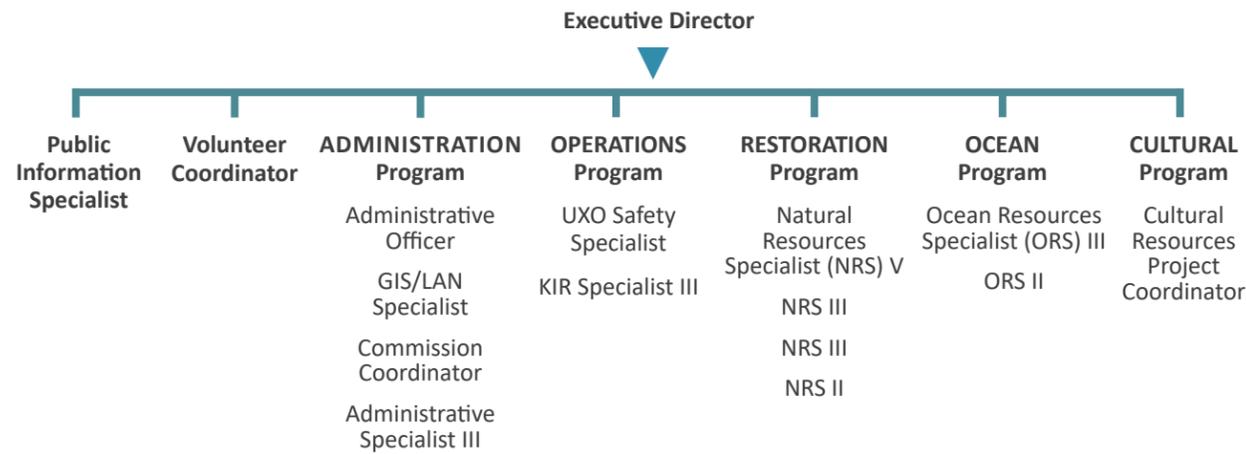
2013— Present : Program designed to create a sustainable funding plan through the State of Hawai'i as the federal Trust Fund recedes. Initial outcomes include a membership program, community building events at the KIRC's Kīhei site and Kaho'olawe's first appropriation of General Funds.

## ORGANIZATIONAL STRUCTURE



FY16 commissioners from left: Amber Nāmaka Whitehead (PKO), Joshua K. Kaakua (PKO), C.M. Kaliko Baker (PKO), Michele McLean (Maui County), Hōkūlani Holt (NHO), Suzanne Case (DLNR) and Carmen Hulu Lindsey (OHA).

By statute, the Commission consists of 7 members appointed by the Governor provided that 1 is a member of the Protect Kaho'olawe 'Ohana (PKO); 2 are appointed from a list provided by the PKO; 1 is a trustee or representative of the Office of Hawaiian Affairs (OHA); 1 is a county official appointed from a list provided by the Mayor of the County of Maui; 1 is the Chairperson of the Board of Land and Natural Resources (DLNR); and 1 is appointed from a list provided by Native Hawaiian Organizations (NHO). KIRC staff is comprised of:



## STAFF

"The KIRC staff were very good at stressing the importance of working together, working hard (but still having fun), respecting each other, and taking care of the land. At every cultural site or worksite, our group approached the place with respect and wanting to make a positive change to make the place better before we left the island." — Keith Ideoka, Volunteer



Staff from left: Grant Thompson (KIR Specialist III), Lyman Abbott (NRS III), Carmela Noneza (GIS/ LAN Specialist), Cassie Smith (Volunteer Coordinator), Paul Higashino (NRS V), Dean Tokishi (ORS III), Lopaka White (NRS II), Jennifer Vander Veur (ORS II), Terri Gavagan (Commission Coordinator), James Bruch (NRS III), Kelly McHugh (Public Information Specialist), Mike Nāho'opi'i (Executive Director), Bart Maybee (UXO Safety Specialist).

### HAPIOAWA WATERSHED RESTORATION

A decade-long partnership with the Department of Health has addressed 500 acres of the Reserve's hardpan with native plantings, erosion control and non-native species removal. These efforts help to prevent erosion, permanent loss of archaeological sites, fatal impacts to near-shore coral reef communities and pollution of global waters.

### THE KAHO'OLAWA LIVING LIBRARY

KIRC Virtual Museum Pilot Project  
Designed in collaboration with cultural and library science consultants, this online database presents a community-curated collection of archived items for educational use. An interactive application ("app") for mobile access will be released in FY17, with a searchable map, oral histories and historical information pertaining to each of Kaho'olawe's 'ili.

### BASE CAMP SELF-SUSTAINABILITY

Now in its 4<sup>th</sup> year of sponsorship through Maui County's Office of Economic Development, a photovoltaic system now powers

off-grid volunteer housing and infrastructural units. An FY17 project will power a security system, with a full redesign of Base Camp's energy system underway through State of Hawai'i Capital Improvement Project (CIP) funding.

### KAHO'OLAWA ISLAND SEABIRD RESTORATION PROJECT

Through a collaboration with Island Conservation, and funded by the National Fish and Wildlife Foundation, a long-range faunal restoration plan is being implemented to restore the Reserve as a sanctuary for rare and endangered wildlife species in Hawai'i.

### HUI KĀPEHE

Currently in its 3<sup>rd</sup> year, the KIRC's Hui Kāpehe program offers concentrated work-related experience, community service learning, and job shadowing opportunities in career and technical education (CTE) that focus on sustainability and Hawaiian culture. Part of a national DOE initiative, college students gain hands-on experiences in each of the KIRC's core programs as a prerequisite, then engage in a paid internship in the area of their choosing.

### KAHO'OLAWA BIOSECURITY

Through grant support by the Hawai'i Invasive Species Council, the KIRC is designing plans for preventing new Invasive Alien

Species (IAS) from entering the Reserve while targeting existing IAS for control and eradication. With protocols for shipping materials, accessing the Reserve and more, the focus is on 5 main areas: Prevention > Detection > Quarantine > Eradication > Education.

### SUSTAINING COMMUNITY ACCESS: THE 'ŌHUA

An economic necessity, the KIRC's 'Ōhua landing craft became its primary means of cargo, personnel and volunteer transport in 2007. Due to age, frequency of use and extreme weather conditions, our Operations team applies much of their time and energy today to maintaining the vessel. With recent funding through Maui County and State Bill #2034, we are implementing major repairs and maintenance of this critical connection to Kaho'olawe.

### COASTAL RESTORATION PROJECT

A project initiated in 2012 through the Hawai'i Community Foundation, thousands of community volunteers representing schools, cultural centers, conservation organizations and others have planted 15,000 drought resistant, salt tolerant natives at Honokanai'a and are expanding to Keanakeiki and Kealaikahiki. Landscapes have been stabilized around significant cultural sites and the Ocean team continually removes invasive roi, to'au and ta'ape; all fish that prey on native species.

### THE KAHO'OLAWA EDUCATION & OPERATIONS CENTER

Our Kihei, Maui Site  
Designated to the KIRC in 2002 as the future site of a primary operations, information and cultural learning center, the KIRC's 8-acre Kihei Boat House property now hosts community work days, school outreach programs, an educational walking trail, native plant nursery and traditional hale. Through a wide range of grant supporters, a living model of Kaho'olawe activity is being developed in order to enable access to the broader community, (see p. 24).

### RESERVE MARINE DEBRIS REMOVAL

In June 2015, the KIRC was awarded a portion of a new DLNR grant through the Japanese Tsunami Marine Debris Program/ NOAA. An adjunct to the two-year partnership that contributed to the removal of 43 tons of marine debris from Kaho'olawe (2013-2015), this initiative supported exemplary partners in tackling marine debris challenges and finding proactive solutions to help eliminate debris through research, removal, prevention, emergency response and coordination. The KIRC will allocate FY17 State CIP funds to continue this important work to protect Reserve and global waters.

# FY16 OCEAN PROGRAM



Kanapou

Removed invasives, prior to study

### MARINE DEBRIS REMOVAL

In August of 2015, the Ocean team completed a 2-year grant project with the National Oceanic and Atmospheric Administration (NOAA) Marine Debris Program. Through the training, management and safe access of hundreds of volunteers as well as aerial surveys, classroom education sessions and labor-intensive transport operations, 43 tons of marine debris was removed from Kaho'olawe. Due to the project's successful completion, a new DLNR grant through NOAA's Japanese Tsunami Marine Debris (JTMD) Program enabled an additional volunteer access in December, resulting in an additional 2 tons of marine debris removed. The KIRC continues to seek partnerships like these geared to support exemplary organizations in tackling marine debris challenges through research, removal, prevention, emergency response and coordination.

### NATIVE RESOURCE PROTECTION

Based on the success of a 2-year grant partnership through the Hawai'i Community Foundation's Community Restoration Partnership, an additional \$50,000 grant was awarded this year to, in part, remove 250 pounds of invasive fish within the Kealaikahiki 'ili – thereby easing predation pressure on delicate native fish and invertebrate species. To date, removal is on schedule and Ocean staff have collected drone footage at Honokanai'a and Honokanaeae as part of a pre-condition report. Volunteer partnerships have been critical to this work. (See page 11).

### CAREER & TECHNICAL EDUCATION TRAINING

Throughout FY16, Native Hawaiian college interns training to become competitive in the workplace through CTE (career & technical education) offered by the KIRC's Hui Kāpehe program studied under Ocean staff. Ranging from coastal ecosystem identification practicums and invasive roi, ta'ape and to'au dissections on Kaho'olawe to SCUBA and marine ecosystem certification classes held on Maui, interns received rigorous and culturally-appropriate guidance from a passionate team.

### COLLABORATION

This year, the Ocean team worked with the Department of Aquatic Resources to install temperature loggers at Honokanai'a and Honokoa that will be compared with other DAR study sites to monitor Maui Nui water temperature changes over time; NOAA's Hawaiian Monk Seal Research Program's Main Hawaiian Islands Division to monitor, track and tag endangered monk seals on Kaho'olawe; NOAA's Marine Debris Program for the 2016 Green Kids Conference to help educate 4<sup>th</sup>-grade Maui students about the benefits of a greener lifestyle for both themselves and the environment; and University of Hawai'i's wave energy research and monitoring project in order to seek alternative power sources for Kaho'olawe.

"I learned about the importance of sustaining the work being done to ensure that future generations have the ability to partake and understand all that the island has to offer culturally." — Clarence Yamamoto, Volunteer



### SUSTAINABILITY

Because Reserve waters are protected by law, the region acts as a fish sanctuary that works to replenish fish stocks throughout the islands, particularly around Maui and Lana'i. To fully understand fish population dynamics, the Ocean team monitors fish habitat, growth rates and travel with the help of community volunteers and our permitted trolling program.

### MANAGEMENT

As a Reserve, Kaho'olawe is rich with marine life that includes manō (sharks), nai'a (dolphins), hāhālua (mantarays) and koholā (humpback whales). 'Ilioholoikauaua (monk seals), honu (turtles), and manu kai (seabirds) also utilize the Reserve's coastal habitats. Counts by land, sea and air aim to establish a distribution and abundance baseline that will help determine whether numbers increase as a result of their protection.

### RESTORATION

More than 40 tons of marine debris have been removed from Kaho'olawe over the past 3 years, specifically from Kanapou, Puhianenu and 'Oawawahie; 3 bays notorious for debris aggregation. A portion of the debris is subsequently repurposed on Maui for recycled arts and other educational programs. Grant-funded aerial surveys help to monitor the rate of influx of marine debris re-introduction, thereby setting focal points for future removal projects.

### MONITORING

Coastal hikes and underwater surveys help to collect quantitative and qualitative information that is analyzed for seasonal trends and environmental abnormalities. Partners including The Nature Conservancy, NOAA (Humpback Whale Sanctuary, Maui) and University of Hawai'i have helped us inventory near shore fish populations, coral abundance and more to support ongoing monitoring and detect changes in environmental populations.

## FY16 RESTORATION PROGRAM



Volunteers at DOH project site

### VOLUNTEER CROSS-TRAINING

Due to FY16 budget cuts, restoration work trips were scaled back and adjusted to accommodate groups with the mission and manpower to best leverage current grant projects. Volunteers from Hawai'i Army National Guard (July 2015), University of Hawai'i, Mānoa: Ethnobiology Society and Queen Lili'uokalani Children's Center, Maui (October 2015), Maui Invasive Species Committee and East Maui Watershed Partnership (November 2015), Maui Nui Seabird Recovery Project (January 2016), Seabury Hall (February 2016), University of Hawai'i at Mānoa, William S. Richardson School of Law (March 2016) and Four Seasons Resort Maui (May 2016) joined us on-island to work on native plantings, erecting rock corridors, installing filter fabric check dams and wattles and surveying for invasive alien species (IAS).

### SEABIRD RESTORATION

In FY16 the **Kaho'olawe Island Seabird Restoration Project** team completed *A Business Plan for the Restoration of Hawaiian Bird Life & Native Ecosystems on Kaho'olawe*, and, through a new grant partnership with Island Conservation and the National Fish and Wildlife Foundation, began implementation. Monthly data collection and field work accesses complemented inter-agency partnerships with United States Geological Service/ Pacific Island Ecosystem Research Center, United States Fish and Wildlife Service, Honolulu and USFWS National Raptor Program, and the Pacific Cooperative Studies Unit /Maui Nui Seabird Recovery Project — established in the form of Project Working Groups. Three Working Groups were formed to specifically address Non-Target Species and Conservation Measures, (Hawaiian Short-Eared Owl, Hawaiian Hoary Bat and Hawaiian Seabirds).

### DOH

The KIRC's Hawai'i Department of Health, Clean Water Branch grant project outplanted 5,000 shrubs and grasses of 10 native Hawaiian species in FY16. Two native species, Ma'o (*Gossypium tomentosum*) and the endangered 'Ohai (*Sesbania tomentosa*), were germinated from Kaho'olawe seed at Native Nursery, LLC in Kula, Maui, with 'Ohai at a 43.2% germination rate. This technique has been deemed a success and can be replicated in other Reserve areas with Tier I UXO clearance status. By reducing rapid erosion rates in the project site, restoration efforts proved to be beneficial to the archaeological sites in the area.

### COASTAL RESTORATION

FY16 saw the closing of our second Community Restoration Partnership project with **Hawai'i Community Foundation** and a new project expansion into Kealaikahiki. 3,780 volunteer hours contributed to the outplanting of 5,000 native plants and removal of 500 lbs of non-native/ invasive fish. Moving into FY17, this is the KIRC's primary planting project on Kaho'olawe.

Left: Volunteers at coastal restoration project site



"This work has great significance, ecologically and culturally. Kaho'olawe is a big challenge compared to others that I have worked on because it needs so much restoration work. Revegetation on most of my other island projects is not an issue because it can be done without human assistance. But the size of Kaho'olawe is just great because it encompasses many different habitat types. If we succeed in our eradication and restoration efforts, this will be one of the largest advancements we've seen in the field." — eradication and biosecurity expert Peter McClelland, New Zealand



Logo created by Baldwin High School students (see p. 26)



### PLANTINGS

Kaho'olawe is being planted with native species that include trees, shrubs, vines, grasses, and herbs. More than 400,000 native plants have been reintroduced to date. Only about 820 acres of the 12,800 most severely eroded acres can be replanted; the remaining land is barren hardpan-soil compacted so severely by erosion that it cannot readily absorb water.

### BIOSECURITY

Preventing Invasive Alien Species (IAS) and eradicating target species are key to the restoration of Kaho'olawe. Our new, comprehensive biosecurity plan focuses on prevention, detection, quarantine, eradication and education. Activities include biological inventories on the island and at ports of departure, development of best management practices for our Maui nursery and ongoing control projects for rodents and khaki weed.

### FAUNAL RESTORATION

As a federally protected Reserve, Kaho'olawe is a sanctuary for rare wildlife species in Hawai'i where human disturbance, development, and light pollution are negligible. Recognized as a top-ranked site for reintroduction and establishment of rare birds, restoring populations of these and other native wildlife will significantly advance opportunities for participation in and awareness of traditional Native Hawaiian cultural practices.

### TRAINING

KIRC's consolidated authority for the Island and its surrounding waters allows for an exceptional workforce development program for the future conservation leaders and supporters needed to protect Hawaiian natural and cultural beauty. By working with monthly volunteer groups and regularly with Native Hawaiian Hui Kāpehe interns, the Restoration team shares our biggest challenges and best practices with the next generation of Reserve stewards.

## FY16 CULTURAL PROGRAM



Kāpehe studying on island

### HUI KĀPEHE PROGRAM

**hui:** association, institution, organization, joint ownership, partnership, team. **kā.pehe:** fellow worker, associate, assistant.

Part of a national initiative to prepare Native Hawaiian college students to be a competitive force in the workplace through completion of culturally-appropriate career and technical education programs, Hui Kāpehe is a KIRC internship program funded through the Native Hawaiian Career and Technical Education Program (NHCTEP), in partnership with Alu Like Inc.

Interns engage in a 300-hour training period through the KIRC's core programs (Ocean, Restoration, Cultural, Operations and Administration) as a prerequisite, then go on to receive a competitive salary for a 100-hour internship in the area of their choosing. Additionally, they receive tailored learning and support to equip them with essential skills for success and reimbursement for professional certifications upon completion of the program.

Through a unique partnership developed with UH Maui College, a team of paid Hui Kāpehe coordinators operate from the college campus. Working closely with KIRC and Alu Like staff, they monitor performance, help set kāpehe objectives and co-evaluate performance.

**43 total college students** participated in the program between July 1, 2015 and June 30, 2016, with activities including: camp establishment at Luamakika and backhoe operation training (Kaho'olawe); reforestry efforts (Kīpahulu Forest Reserve, Haleakalā National Park); papa ku'i 'ai and pohaku ku'i 'ai workshops; KIRC native plant nursery irrigation and hale work (Kīhei); 'upena (fishnet) making; and camping excursions teaching cultural practices through plants and imu.

*The KIRC has been awarded \$269,113 to continue this program for the term September 2016 through August 2017. FY17 goal: 50 Native Hawaiian students complete the program.*



Working on the hale at the Kīhei site

### HŌ'OLA IĀ KAHŌ'OLAWE

Part of a calendar-year 2015 grant through the Maui County Product Enrichment Program (CPEP), 8 free events were produced in FY16 at the KIRC's Kīhei, Maui site designed to strengthen connections between Kaho'olawe and Maui communities.

**Kāko'o iā Kaho'olawe Work Days** invited participants to make an active contribution to the restoration of Kaho'olawe by working on the site's walking trail and native plant nursery to propagate plants for Kaho'olawe. Three events were held in FY16 with a total participation of 40.

**Mahina'ai Nights** offered a guided tour of the trail while KIRC program leaders shared their Kaho'olawe experiences. Guests then gathered at the KIRC's native plant nursery, where historical artifacts from Kaho'olawe were on display, and enjoyed live entertainment provided by University of Hawai'i Maui College's Institute of Hawaiian Music. Five events were held in FY16 with a total participation of 160.

Through this program, we met hundreds of individuals that could not readily meet the physical, time or financial commitments incurred by an on-island volunteer work trip, but were eager to be involved.



Kāko'o iā Kaho'olawe Work Day



### KĀPEHE FEEDBACK

"I learned skills to remain safe on a construction site, when working with various tools, about personal protective equipment I can use to stay safe in different worksites and how to safely handle a chainsaw. This certification will help in my work with renovating my friend's 'ohana."

"I learned that global warming is changing the acidity of the ocean and this will cause damage to sea animals with shells like 'opihi. They use the calcium from the ocean to build their shells, but with rising acid levels, this will break them down."

"I learned to sit still and have a personal insight of my life and the life of those that tried their best to give me and my 'ohana the opportunity of history."

"I learned that hard work will one day pay off."

"I learned that forgiveness is not just for human beings but for the 'aina who suffered much at the hand of man. Forgiveness is a process of healing and acknowledgment of wrong-doing whether or not you participated. This kuleana belongs to all who live and care about Hawai'i and all that it means to malama e aloha 'aina."

"I learned how to move forward and focus."

"I enjoyed learning about how the traditional Hawaiian culture and beliefs are tied with the decisions we make now and can be integrated with current knowledge. I learned a lot about the history and culture of Kaho'olawe and in particular about restoration efforts. I also learned a little about native plants. Of course I also learned about ingenuity."

# FY16 OPERATIONS PROGRAM



Honokanai'a Base Camp



Kāhei Site



'Ōhua



ORDNANCE DISPLAY

Kaho'olawe was returned to the State of Hawai'i with minimal on-island infrastructure and no ports or harbors. For the KIRC to fulfill its mandate and mission to restore Kaho'olawe, it must provide its own support structure to include transportation, water, electricity, housing and waste disposal. Some of the key operations components include the Honokanai'a Base Camp on Kaho'olawe, the future KIRC Education & Operations Center at Kīhei, the KIRC Landing Craft: 'Ōhua and Unexploded Ordnance (UXO) and Industrial Safety.

### HONOKANAI'A BASE CAMP

The KIRC's Base Camp functions as a repair facility to maintain equipment and vehicles used to actively manage and restore Kaho'olawe and to feed and house the KIRC workforce (staff and volunteers). It requires specialized, multi-faceted technicians skilled in basic operations support services such as potable water production and distribution; multi-vehicle and heavy equipment maintenance and repair; road construction; communications equipment maintenance; electrical power generation and distribution and other facility support and maintenance services. As a complete standalone facility, the Camp must produce its own electricity and water and handle its own waste disposal.

### KIRC EDUCATION & OPERATIONS CENTER AT KIHEI

Serving the public as the gateway to Kaho'olawe, the KIRC's 8-acre Kīhei, Maui property was designated by executive order in 2002 as the future site of its primary operations, information and cultural learning center; a vision that will call on the support of many in the coming years. The future building and facilities will include office space for KIRC staff, historical and interactive exhibit space about Kaho'olawe, workshops, classrooms and community meeting spaces. As this site is developed there will be increasing potential to create a social enterprise to fuel our mission work. By building capabilities to offer classes, performances, lectures, exhibitions, space rentals, banquets and more, the Kīhei Center will present a vast array of relevant revenue-generating opportunities that can directly fund Kaho'olawe restoration, preservation, protection and access.

### KIRC LANDING CRAFT, 'ŌHUA

Connecting Kaho'olawe to facilities on Maui is the most important aspect of the KIRC's logistics system. Transporting the critical materials, supplies, equipment and personnel needed to accomplish the work on Kaho'olawe requires a dedicated and highly trained crew operating various ocean vessels to ensure the right supplies arrive when needed. Built in 2007 and capable of carrying up to 5 tons of cargo (approximately 40 passengers without cargo), the 39-foot 'Ōhua is the KIRC's primary means of transport to and from Kaho'olawe for our volunteer force, staff, Base Camp support, cargo, fuel and more. The introduction of ocean-based transport was a key factor in significantly reducing overhead costs while improving logistics efficiency, ultimately phasing out previously utilized helicopter transport.

### UXO AND INDUSTRIAL SAFETY PROGRAM

With live unexploded ordnance remaining on Kaho'olawe and a residual risk of unexploded ordnance in cleared areas, a vigorous safety program is required. This includes not only unexploded ordnance (UXO) safety procedures and training, but also industrial and construction safety plans, procedures and training to effectively manage Base Camp and field operations.

(Photos by volunteer Bryan Berkowitz)



### INFRASTRUCTURE SUPPORT

A 22-building base camp at Honokanai'a includes facilities to house and feed our volunteer work crews; generate electrical power; store fuel for on-island vehicles and the generator; and run a potable water system that uses a reverse osmosis plant to generate fresh water from the ocean. We also have a fully functioning repair facility that maintains our collection of military trucks and all-terrain vehicles and services a wide selection of heavy-equipment construction machinery used to build and repair over 20 miles of improved roads on Kaho'olawe.

### MAUI BASE

Our Kīhei Boat House site serves as the staging area/meeting point for all materials and work crews traveling to and from Kaho'olawe. Operations include fuel preparation, biosecurity inspection, equipment and supply inventory, safety training, volunteer orientations, all-terrain vehicle and boat repair and outreach activities affiliated with our traditional hale, native plant nursery and educational walking trail at the site.

### LOGISTICS SUPPORT

Transporting materials, equipment and personnel is one of the chief functions of the Operations Program. In order to accomplish this mission, the Operations Program maintains variety of heavy equipment, vessels and vehicles ready to respond to our field program's needs. When needed, two 500-gallon fuel bladders and an offshore pumping rig allow us to quickly and safely transport fuel to the base camp via the 'Ōhua.

### SAFETY

Including both industrial and explosive safety programs, the Operations team maintains vital communications with the Island. Servicing provisions for medical emergencies and natural disaster preparedness, the program also focuses on UXO identification, group management, and explosive safety and emergency response procedures through our unique Access Guide Training and Qualification Program.

# FY16 ADMINISTRATIVE PROGRAM



Rep. Maile Shimabukuro with Hui Kāpehe interns & Mike Nāho'opi'i

A highly specialized team, KIRC staff cares for an entire island — acting as the local board of water supply, electric company, public works department, telephone and radio communications provider, and department of transportation — while simultaneously engaging community groups in the cultural, scientific and educational offerings of this special place. Highlights of this fiscal year include:

### FY16 LEGISLATIVE SESSION

After a long campaign to garner financial support that could serve as a sustainable alternative to the former Kaho'olawe Rehabilitation Trust Fund, we were granted a reprieve in the 2015 session through Act 84, establishing \$1,000,000 in general funds for fiscal years 2016 and 2017. While this was much needed funding, it was not enough to continue full operations on Island. We made best use of this support by significantly reducing our costs — which translated into work trip reductions, staff cuts and furlough days. Though tough, we were able to survive on a shoestring budget through fiscal year 2016. But to succeed in moving forward, we needed additional support.

### EDUCATIONAL FORUMS

This year, the KIRC directly collaborated with Maui Police Department's Summer Leadership Program, Punahou School, Maui County Arborist Committee's Exceptional Tree program, the International Union for Conservation of Nature (IUCN) World Conservation Congress 2016 through the "Kanu Kaho'olawe: Replanting, Rebirth" exhibit by Jan Beckett & Carl Pao, Baldwin High School for cultural and restoration program integration, Maui Nui Botanical Gardens' Arbor Day and the Association of Fundraising Professionals' Aloha Chapter Philanthropy Day. Direct participation in these forums is estimated at 880 and allows us to engage the public in the importance of our work.

### WALKING TRAIL EVENTS

An additional 200 individuals joined us at the site of our *Kaho'olawe Educational Walking Trail* during three Kāko'o iā Kaho'olawe Work Days and five Mahina'ai Nights. With informational signs posted at each area listed on p.24, the trail is designed to connect Maui residents and visitors to the healing process of Kaho'olawe. Future plans are being developed to revive these events through our Hui Kāpehe program.

### THE LIVING LIBRARY

In 2014, the KIRC received a 2-year federal grant sponsoring a virtual museum pilot program: the *Kaho'olawe Living Library*. Supported by key library science specialists and a range of community surveys exhibiting a clear demand for library and archived materials — most emphasizing the importance of "sharing cultural wealth for all generations in a unique manner that can be blended in spite of differences and changes over the years" — we have successfully archived and digitized a collection of publicly searchable images and documents for academic, professional and personal development. (Click "Living Library" at [kahoolawe.hawaii.gov](http://kahoolawe.hawaii.gov)). A mobile app will be developed in FY17 to transform the Living Library into a fully functioning map of Kaho'olawe that enables the user to virtually explore the Reserve and to discover the archived collection. The app will also include "oral history" video segments with stories told by key Kaho'olawe participants — now offering a new means of access to Kaho'olawe.



Cultural Program lesson at Baldwin High School



Mike Nāho'opi'i & Kelly McHugh at Mahina'ai Night

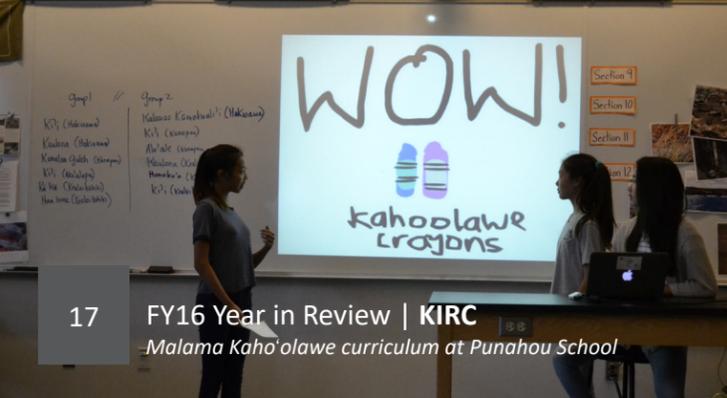
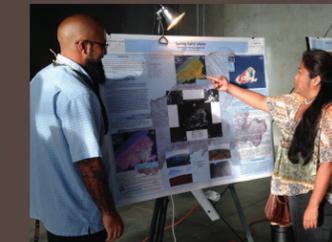
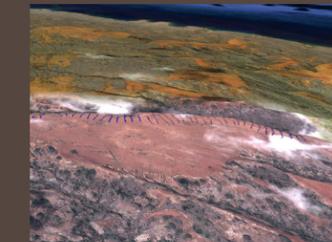


Photo: Ryan Piro (KIRC staff with Governor Ige)



### FISCAL MANAGEMENT

Serves as the focal point for the KIRC's financial matters by providing direction, planning, reporting, accounting and policy oversight to increase the value of overall programs. Positions the KIRC as a source of collaboration and continuous learning through fund development initiatives that are geared towards self-sufficiency. Works closely with legislators to present specific strategies for long-term sustainability.

### COLLECTIONS

The KIRC collects, preserves and enables access to the public records, historical manuscripts, photographs and other materials that contribute to the understanding of Kaho'olawe history. As the State's largest repository of knowledge on Kaho'olawe, our library and archives house thousands of these objects. As the only major island in the Pacific that has been archaeologically surveyed from coast to coast, our inventory contains 3,000 historic sites and features and encompasses a vast collection of distinct archival materials — all in need of proper preservation in order to be shared with the public.

### OUTREACH

Public information, communications and regular one-on-one interactions are key to informing our community and decision-makers about the important work we are doing to improve the lives of the people of Hawai'i. Through our *Ko Hema Lamalama* newsletter, e-news bulletins, regular press releases, fact checking for media outlets, written testimony, conventions, events, speaking engagements, classroom visits, social media and more, this work is fundamental to building and sustaining relationships with our community.

### GIS MANAGEMENT

KIRC Geographic Information Systems (GIS) allow us to analyze results in a given geographic space in order to better prescribe action (e.g. maintenance and planting schedules as well as fuel and work force efficiency). Elements include creating maps and graphs based on Navy cleanup areas; application development; gathering, analyzing, and integrating spatial data from staff; compiling geographic data from field observation, satellite imagery, aerial photographs, and existing maps; and managing all system hardware, software, plotter and drone activity.

## 2016 LEGISLATIVE SESSION REVIEW

### WHAT WE SUPPORTED THIS SESSION:



**HB2034:** Introduced by Representative Yamane  
**SB2582:** Introduced by Senator English  
 A direct appropriation General Fund request for FY2017 to support restoration of and access to Kaho'olawe.



**HB2035:** Introduced by Representative Yamane  
 Promoting a 3-year photovoltaic desalinization pilot project to evaluate A) efficiency and cost-saving opportunities; B) conservation, sustainable-development and water security benefits; and C) potential for technological development and future Statewide implementation.



**HB2200:** Introduced by Representative Yamane  
 Applying a percentage of Public Land Trust funds to facilitate the continuing preservation, restoration and appropriate use of Kaho'olawe for the betterment of Native Hawaiians.

### WHAT HAPPENED

On June 17, 2016, Governor David Ige signed House Bill 2034 into law as Act 72. This bill provides \$450,000 of the \$600K requested for FY16 and is critical to ensuring that the KIRC will be able to continue its work. Mahalo to all that provided testimony and helped to spread **Aloha Kaho'olawe!**

This bill passed through the House and passed through three Senate Committees but did not make it to a final vote.

This bill passed through the House but did not receive a hearing in the Senate.

## 2016 VOLUNTEER PROGRAM



"Maybe a few of those seedlings will make it. I now look out at the island and hope for rain there. As dedicated as the staff is, I hope that in ten years it has expanded and has the funds and energy to continue." —anonymous volunteer



Rep. Ryan Yamane & Mike Nāho'opi'i

### HOW CAN I HELP



**SUBMIT** testimony online: Register with the Hawai'i Legislature at [capitol.hawaii.gov](http://capitol.hawaii.gov) for hearing notices or look for our announcements at [facebook.com/kircmaui](https://facebook.com/kircmaui).



**ATTEND** Hearings: Testifying at the Legislature is an empowering way to influence legislation. The Legislature's website ([capitol.hawaii.gov](http://capitol.hawaii.gov)) will have information about the status of our bills and related hearings throughout the session.



**HOST** a talk story session in your classroom, office or club to learn more about the KIRC and our programs. Contact [kmchugh@kirc.hawaii.gov](mailto:kmchugh@kirc.hawaii.gov) to arrange for a member of our staff to get all of your questions answered!



**ENCOURAGE** your friends, co-workers and relatives to support funding for Kaho'olawe. Write letters to your newspaper, call in to radio programs, or become a social media activist. Many elected officials have Facebook and Twitter pages where they regularly post and respond to constituents.



**MEET** your legislators and their assistants in person; you can have a much greater impact when you build relationships with your legislators and their staff. Remember: legislators represent you. Get to know them and share your thoughts on issues that you care about.

### CRITICAL FACTORS FOR FINANCIAL SUCCESS

Build the **KIRC's Kaho'olawe Education & Operations Center** at Kihei, Maui as the key facility to generate sustainable funding for the Island's long-term restoration and to establish a permanent, public gateway to Kaho'olawe.

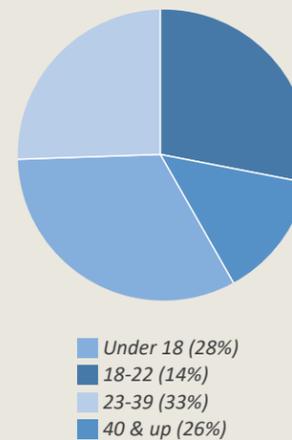
Establish a dedicated State funding requirement; **securing a permanent workforce** to restore and actively manage the Kaho'olawe Island Reserve.

Create a **diversified income generating portfolio** to achieve financial sustainability and to weather future fiscal changes.

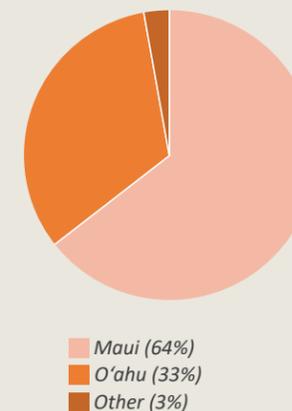
The KIRC has been tasked with a monumental endeavor that has and will continue to require thousands of hands over several generations to accomplish. By partnering with communities, school groups, professional organizations and conservation agencies, the KIRC works to foster a culture of stewardship and conservation for Kaho'olawe and for all of Hawai'i's cultural and natural resources.

To date, more than 10,000 volunteers from all walks of life have been welcomed, trained and safely engaged in the restoration of hundreds of acres of Kaho'olawe wetlands, watersheds and reefs, out-planting nearly 1/2-million Native plants. Countless others have actively participated in education and outreach efforts both on and off-island, inspiring residents and visitors with the history, culture and ecology of Kaho'olawe.

BY AGE



BY GEOGRAPHIC



During FY16, 657 volunteers accessed Kaho'olawe through 29 individual service trips; 401 with KIRC and 256 with PKO. As a comparison, FY15 saw 791 volunteers and FY14 saw 1,142 volunteers. Only with continued funding through the 2017 Legislative Session will we see that number begin to increase again; therefore enabling the current level of impact we can feasibly make on and for the Reserve.

### FY16 VOLUNTEER GROUPS

- East Maui Watershed Partnership
- Four Seasons Resort Maui
- Google Maps
- Hawai'i Department of Land and Natural Resources
- Harmer Communications
- Hawai'i Army National Guard
- Hui Kāpehe, a KIRC internship program offered in collaboration with University of Hawai'i Maui College
- Island Conservation
- Kanapou Marine Debris Volunteers
- Kihei Canoe Club
- Kihei Charter School
- Maritime Careers Exploration, Marimed Foundation (Makani Olu)
- Maui Invasive Species Committee
- Maui Nui Seabird Recovery Project
- Mililani High School
- The National Oceanic and Atmospheric Administration
- Protect Kaho'olawe 'Ohana
- Queen Lili'uokalani Children's Center
- Seabury Hall
- University of Hawai'i at Mānoa, William S. Richardson School of Law
- University of Hawai'i at Mānoa, Ethnobiology Society

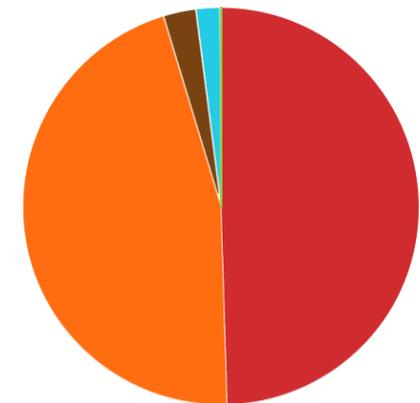
# FY16 GRANTS

# FY16 FINANCIALS

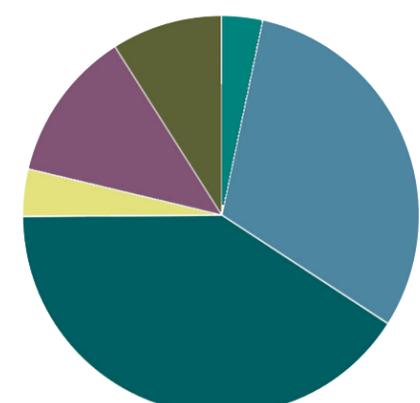
TERM	FUNDER'S GRANT PROGRAM	KIRC'S GRANT PROJECT
Apr 2013- Jun 2016	Hawai'i Department of Health, Clean Water Branch <i>NOTE: Initially a \$204,187.61 grant with a project period of 4/13 — 6/15, a 12-month extension was offered in 6/15, including an additional appropriation of \$90K.</i>	"Reducing Excessive Sedimentation in the Hakoawa Watershed of Kaho'olawe Island by Restoring Native Ecosystems": \$294,187.61 to diminish the ecological impact on reef communities via native plantings and other erosion control methods.
Jul 2013- Aug 2015	National Oceanic and Atmospheric Administration (NOAA) Marine Debris Program	"Marine Debris Removal on Kaho'olawe": \$100,529.98 to remove 10 tons of marine debris from 'Oawawahie, Kanapou and Puhianenu.
Sep 2014- Dec 2015	Alu Like, Inc. Native Hawaiian Career and Technical Education Program in partnership with the U.S. Department of Education (DOE)	"Hui Kāpehe": \$269,113 to continue a Native Hawaiian internship program in career and technical education.
Oct 2014- Sep 2016	Native Hawaiian Museum Services (NHMS), Institute of Museum and Library Services (IMLS)	"Virtual Museum Pilot Program": \$49,935 to archive and digitally publish a sample collection of Kaho'olawe images for public access.
Jan 2015- Sep 2015	Hawai'i Council for the Humanities (HCH) Preservation and Access Grant Program	"Virtual Museum Pilot Program": \$5,000 for program outreach.
Jan 2015- Dec 2015	Hawai'i Community Foundation's Community Restoration Partnership (HCF CRP)	"The Healing of Kaho'olawe: Building Community to Restore Honokanai'a": \$50,000 to expand coastal and marine restoration at Honokanai'a.
Jan 2015- Dec 2015	The Maui County Product Enrichment Program (CPEP), a cooperative partnership through the Hawai'i Tourism Authority (HTA) and County of Maui	"Hō'ola iā Kaho'olawe Event Series": \$20,000 to produce 12 Kāko'o iā Kaho'olawe Work Days + 7 Mahina'ai Night/full moon outreach events at the Kīhei site.
Jun 2015- Dec 2015	Japan Tsunami Marine Debris (JTMD) project funds, administered by NOAA Marine Debris Program	"Marine Debris Removal on Kaho'olawe": \$31,738.80 to access + remove 2 tons of marine debris from Kanapou.
Jul 2015- Jun 2017	The National Fish and Wildlife Foundation (NFWF) Keystone Initiative	"Kaho'olawe Island Seabird Restoration Project": \$150,000 to implement a collaborative business plan for invasive vertebrate removal with Island Conservation.
Sep 2015- Aug 2016	Alu Like, Inc. Native Hawaiian Career and Technical Education Program in partnership with the U.S. Department of Education (DOE)	"Hui Kāpehe": \$269,113 to continue our Native Hawaiian internship program (target = 60 students).
Sep 2015- Dec 2016	Hawai'i Invasive Species Council (HISC)	"Biosecurity Implementation Plan for the Island of Kaho'olawe": \$49,066 for a published plan + 200 acres surveyed on island + rodent control bait stations + education at Kīhei site.
Jan 2016- Dec 2016	Hawai'i Tourism Authority's Kūkulu Ola Living Hawaiian Culture Program (HTA)	"KIRC Virtual Museum": \$45,200 to create a mobile application ("app") and oral history component.
Jan 2016- Dec 2016	Office of Economic Development, County of Maui (OED)	"Sustaining Community Access to Kaho'olawe: The 'Ōhua": \$20,000 to replace trailer.
Apr 2016- Mar 2017	Hawai'i Community Foundation's Community Restoration Partnership (HCF CRP)	"The Healing of Kaho'olawe: Building Community to Restore Kealaikahiki": \$50,000 to maintain Honokanai'a native ecosystem project + expand by 12 acres in Kealaikahiki.
Jun 2016- Jun 2017	Office of Economic Development, County of Maui (OED)	"Sustainable Security and Program Management for Kaho'olawe Base Camp": \$25,000 to continue PV program at Honokanai'a Base Camp



Simplified financial statement for FY ending 6/30/16



SUPPORT & REVENUE	FY14	FY15	FY16
General Fund Appropriations			\$799,575
Program Grants	\$193,326	\$366,698	\$739,244
Charitable Contributions	\$5,175	\$10,689	\$42,825
Other Income	\$82,575	\$84,840	\$31,595
Interest on Trust Fund	\$13,470	\$60,365	\$1,149
<b>Total Support &amp; Revenue</b>	<b>\$294,546</b>	<b>\$522,592</b>	<b>\$1,614,388</b>



OPERATING EXPENSES	FY14	FY15	FY16
Commission	\$57,825	\$63,993	\$53,209
Admin & Support Services	\$771,889	\$801,720	\$498,950
Reserve Operations	\$1,296,711	\$1,429,470	\$657,115
Ocean Program	\$166,514	\$212,709	\$61,521
Restoration Program	\$370,668	\$399,807	\$198,244
Cultural Program	\$82,554	\$215,681	\$145,124
<b>Total Operating Expenses</b>	<b>\$2,746,162</b>	<b>\$3,123,380</b>	<b>\$1,614,163</b>

As stated in the Federally-mandated Kaho'olawe Island Conveyance Commission final report to Congress in 1993, "in the short term, federal funds will provide the bulk of the program support for specific soil conservation projects and related activities. In the longer term, however, State revenues will be needed to continue and enhance those activities initiated with federal funds." For the past 22 years, federal funding has allowed the KIRC to establish many of its innovative programs that emphasize ancestral and traditional knowledge, provide a cultural approach of respect and connectivity to the environment, and integrate ancient and modern resource management techniques. Moving forward, we will turn to the State to help carry forth this obligation.

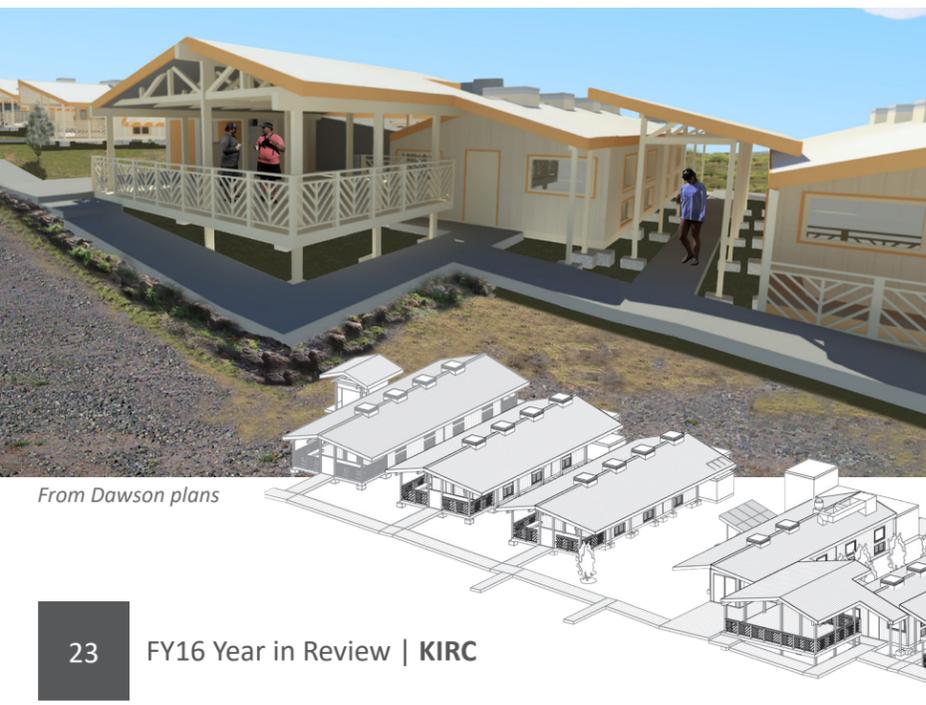
TRUST FUND BALANCE	FY14	FY15	FY16
Beginning Balance	\$5,574,767	\$3,123,151	\$522,362
Support & Revenue	\$294,546	\$522,592	\$1,614,388
Operating Expenses	\$2,746,162	\$3,123,380	\$1,614,163
<b>Ending Balance</b>	<b>\$3,123,151</b>	<b>\$522,362</b>	<b>\$522,587</b>



## FUTURE PLANS: HONOKANAI'A BASE CAMP



Drone image of Honokanai'a Base Camp



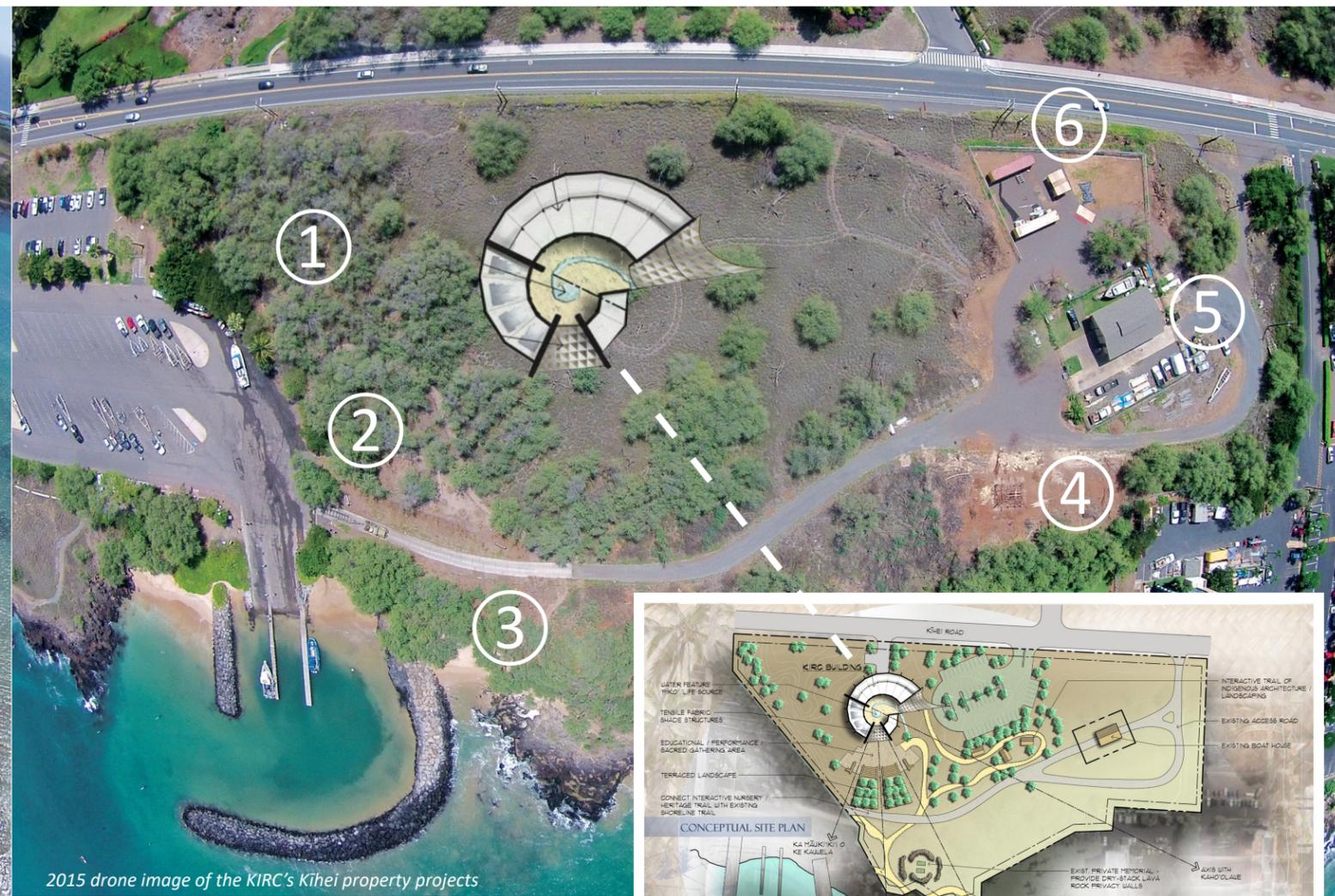
From Dawson plans

### STATUS OF PV

FY16 focused on reviewing design and construction proposals for our Honokanai'a *Renewable Energy and Energy Conservation* project. After a year-long contracting process, the KIRC and DLNR Engineering Division selected Dawson Technical, LLC as the design-build firm that will make this project a reality. As stated by Dawson, "the primary goal of this project is to establish the building blocks for energy independence and sustainability with reduced reliance on fossil fuels for the future of Kaho'olawe." The team's preliminary designs include installing 88 kilowatts of photovoltaic panels, 60 kilowatts of battery backup, a redesign of the existing reverse osmoses desalination plant and renovations to the dining hall and kitchen to increase natural ventilation and create a new, open-air dining lanai.

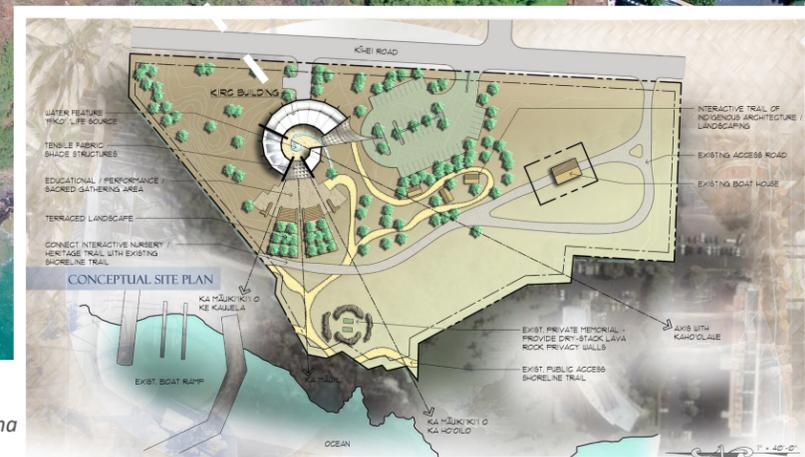
We are planning to begin construction in FY17 with completion by the end of FY18.

## KĪHEI SITE



2015 drone image of the KIRC's Kīhei property projects

- 1 Cultural Site: *Wahi Kūpuna*
- 2 Restoration Site: *Wahi Hō'ola 'Āina*
- 3 Ocean Site: *Wahi Mālama Kai*
- 4 House of Learning: *Hale Kalamalama*
- 5 Boat House: *Hale 'Ōhua*
- 6 Nursery: *Hale Ho'oulu Mea Kanu*



Conceptual site plan created in 2008



The FY15 State budget included \$500,000 in capital improvement project (CIP) funding to begin the design process for the future KIRC Education & Operations Center at Kīhei. This facility will be an import key factor in the KIRC's future ability to manage the Kaho'olawe Island Reserve, establish a Maui-based gateway to the collections and history of Kaho'olawe and create a means of financial self-sufficiency and sustainability. Once funds are released, the KIRC will be seeking a design team to help us complete our vision.

Left: Executive Director Mike Nāho'opi'i, Chairperson Michele McLean, Governor David Ige, Sen. Roz Baker and Maui Mayor Alan Arakawa at the FY16 bill signing of HB2034 into law as Act 72 during an event that took place at our Kīhei site.

## FY16 DONOR LIST

Amidst the challenging transition from a federally funded organization to one that is now working very closely with Hawai'i state legislators to create a sustainable funding plan, the KIRC necessitated a dramatic cut in on-island operations during FY16. During this time, charitable grants have supported a stronger focus on outreach and education programs that enable access through storytelling, a virtual museum, public information and a long menu of events and experiences offered at the Kihei Boat House property. While these offerings have the capacity to reach an exponentially higher number of individuals, (and will remain in place), on-island work accesses continue to be in great demand — posing an unreachable cost to the KIRC while fundraising is addressed.

It is through YOUR support of the Aloha Kaho'olawe membership drive, now in its second year, that we have been able to secure the first-ever direct appropriation of general funds since being established by the State of Hawai'i in 1994; you are critical to our efforts to protect, restore and preserve the ocean and land of this important cultural reserve.

Mahalo to the following outstanding individuals for helping to continue restoration of and access to Kahoolawe for this and future generations!

### **PATRON** \$500 +

Edna Marie Kong  
Law Living Trust  
Rebecca Zalke  
Mahina Lealalo  
Margaret Enomoto  
Four Seasons Resort Maui at Wailea  
Institute of Hawaiian Music, University of Hawaii Maui College

### **BENEFACTOR**

\$100 - \$499

Aqua Engineers, Inc.	Calvin Ichinose
Milton Arakawa	Patricia Justice
Linda Jean Berry	Jerome V. Tiger Metcalfe
Leita Davis	Harry & Hilari Seery
James & Karen Dewinter	Leona Seto-Mook
Keoni Fairbanks	Jean Sun Shaw
P. Nelson Foster	Souza-Bento 'Ohana
James & Marie Gray-Felde	Blakley Sullivan
Sabra Kauka	

### **SUSTAINER**

\$50 - \$99 (or \$25 for students)

Valerie Amby-Kamakeeaina	<b>DONOR</b>
Tikki Bisbee	<i>Other</i>
Wade Holmes	Brenda Akao
Will Larche	Alicia Bautista
Robert Woody	Jan Becket
	Elizabeth Davis
	James & Marie Gray-Felde
	Julie Smith

## DONOR FORM

Through your resounding support of last year's inaugural ALOHA KAHO'OLAWA membership drive, we were able to secure the first-ever direct appropriation of general funds since being established by the State of Hawai'i in 1994.

**Individual donations are critical to our efforts to protect restore and preserve the ocean and land of this important cultural reserve.**

If you have been impacted by Kaho'olawe — as a volunteer, friend, teacher, student, researcher or other community or family member, we invite you to renew today (or to join a friend!) in order to help make a difference for this special place.

### **GIVING LEVELS & BENEFITS:**

Benefits Include	Sustainer	Benefactor	Patron
Newsletter Advertising			✓
KIRC Logo Gift ( <i>see tees below</i> )		✓	✓
Seabird Restoration Sticker	✓	✓	✓
Subscription to Ko Hema Lamalama	✓	✓	✓
e-News Enrollment	✓	✓	✓
Mahalo!	✓	✓	✓

Send this completed form with your donation to:  
811 Kolu Street, Suite 201 | Wailuku, HI 96793.

Checks may be made payable to Kaho'olawe Rehabilitation Trust Fund. You can also give online at [kahoolawe.hawaii.gov/donations.shtml](http://kahoolawe.hawaii.gov/donations.shtml).

#### **CONTACT INFORMATION:**

Name and/ or company

Address

E-mail

Phone

#### **GIFT TYPE:**

- SUSTAINER (\$50-\$99 | \$25 with student ID)
- BENEFACTOR (\$100-\$499)
- PATRON (\$500 & up)
- Benefactor and above, please mark preferred shirt size (1<sup>ST</sup> come, 1<sup>ST</sup> served):  
 2XL  XL  L  M  YOUTH
- I am not interested in becoming a Member at this time and have included a donation in the amount of \$ \_\_\_\_\_

## GET INVOLVED



Access our FREE online ***Malama Kaho'olawe*** curricula (grades 7-12) and teaching materials, chants, historic documents, ***Living Library*** and ***Kaho'olawe Island Guide*** mobile app.



Schedule an appointment in our office library or visit our e-news, blog, Facebook, Twitter or Instagram outlets.



Make a tax-deductible donation to the Kaho'olawe Rehabilitation Trust Fund or make a contribution of new or used equipment to support the KIRC mission.



Apply for a Hui Kāpehe paid internship or schedule a group work day at our Kihei site, where Kaho'olawe experts are developing a community learning space.



Request a guest speaker for your office, classroom or other gathering, (all islands), then testify! The Legislative Session lasts from Jan - May; register at [capitol.hawaii.gov](http://capitol.hawaii.gov) for hearing notices.

KIRC: 811 Kolu Street Suite 201 | Wailuku, HI 96793  
Tel: (808) 243-5020 | Fax: (808) 243-5885  
Email: [administrator@kirc.hawaii.gov](mailto:administrator@kirc.hawaii.gov)  
Web: [kahoolawe.hawaii.gov](http://kahoolawe.hawaii.gov)

KIRCKahoolawe  
 KIRCMAUI  
 KIRCMAUI



Mahalo Baldwin High School students for the study and design of our new "Kaho'olawe Island Seabird Restoration Project" logo! Available while supplies last.

#### **Comments**

The KIRC is a 170(c)(1) government nonprofit, authorized per IRS Publication 557, to receive tax-deductible contributions to programs that serve a public purpose. Donors should always consult with their tax advisors before claiming any tax-deductible charitable contributions.



# MAHALO

## *Kaho'olawe Island Reserve Commission*

*Kūkulu ke ea a kanaloa - The life and spirit of Kanaloa*



*Logo and motto of the KIRC, symbolizing the he'e, or octopus form of the god Kanaloa and the kupu o ka 'aina, or re-greening of the island.*

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811 Kolu Street Suite 201 | Wailuku, HI 96793

Tel: (808) 243-5020 | Fax: (808) 243-5885

Email: [administrator@kirc.hawaii.gov](mailto:administrator@kirc.hawaii.gov)

Web: [kahoolawe.hawaii.gov](http://kahoolawe.hawaii.gov)

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*Front cover photo by volunteer Cassie Pali, back cover photo by volunteer Jenny Pawai*