HB 2035

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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LUIS P. SALAVERIA

MARY ALICE EVANS

DAVID Y. IGE GOVERNOR

DIRECTOR

Statement of LUIS P. SALAVERIA Director Department of Business, Economic Development, and Tourism before the SENATE COMMITTEES ON HAWAIIAN AFFAIRS, WATER, LAND, AND AGRICULTURE, AND ECONOMIC DEVELOPMENT, ENVIRONMENT, AND TECHNOLOGY

> Friday, March 18, 2016 3:00 p.m. State Capitol, Conference Room 224

in consideration of HB 2035, HD 1 **RELATING TO SUSTAINABILITY.**

Chairs Shimabukuro, Gabbard, and Wakai, Vice Chairs English, Nishihara, and Slom, and Members of the Committees.

The Department of Business, Economic Development & Tourism (DBEDT) offers comments on HB 2035, HD 1, which establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kahoolawe and to study the benefits of the technology's use.

DBEDT supports the intent of this bill as the use of photovoltaic (PV) systems for the desalination plant is consistent with the State's clean energy vision. While our office can provide guidance on the implementation of PV systems (without the need for further legislation), our office does not have the expertise or resources to implement desalination plants. If the Legislature moves forward with this measure, DBEDT notes that the financial and human resources required to fulfill the duties of this bill are not fully addressed in its current budget.

We defer to the Kahoolawe Island Reserve Commission on the implementation of this measure.

Thank you for the opportunity to offer comments on this bill.

COMMISSION MEMBERS

MICHELE MCLEAN Chairperson AMBER NĀMAKA WHITEHEAD Vice-Chair

> C. KALIKO BAKER, PhD SUZANNE CASE HŌKŪLANI HOLT JOSHUA KAAKUA, Ed.D CARMEN HULU LINDSEY

> > Michael K. Nāhoʻopiʻi Executive Director

KŪKULU KE EA A KANALOA KAHOʻOLAWE ISLAND RESERVE COMMISSION

811 Kolu Street, Suite 201, Wailuku, HI 96793 Telephone (808) 243-5020 Fax (808) 243-5885 Website: http://kahoolawe.hawaii.gov

Testimony of MICHAEL K. NAHO`OPI`I Executive Director

Before the Senate Committee on

HAWAIIAN AFFAIRS, WATER, LAND & AGRICULTURE And ECONOMIC DEVELOPMENT, ENVIRONMENT & TECHNOLOGY

Wednesday, March 18, 2016 3:00 PM State Capitol, Conference Room 224

In consideration of HOUSE BILL 2035 HD 1 RELATING TO SUSTAINABILITY

House Bill 2035 HD 1 establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kaho'olawe and to study the benefits of the technology's use. The Kaho'olawe Island Reserve Commission (KIRC) strongly supports this measure. The KIRC also recommends that this endeavor be funded at the amount recommended in the original measure of \$500,000.

Access to sustainable fresh water is not only the key to the restoration of Kaho'olawe, but also the key to Hawaii's future. As the effects of global warming severely changes the weather patterns in Hawaii, we will be experiencing more frequent and intense droughts within our islands. The potential lack of freshwater will severely alter the landscape we know today and will force drastic changes to the ecosystem and effect the economy.

The island of Kaho'olawe lacks any natural source of readily available freshwater. Being in the rain shadow of Haleakalā, very little rain falls on Kaho'olawe. An average rainfall of 22-28 inches per year fall on the uplands of the island while the coastline could receive as little as 10-18 inches per year. Due to the lack of topsoil and vegetative groundcover, the majority of that rainfall ends up as surface water runoff and does not recharge the island's ground water resources.

Access to sustainable freshwater on Kaho`olawe will make the island both habitable and transform its landscape. Currently, we depend on either freshwater transported to the island or



DAVID Y. IGE

GOVERNOR OF HAWAI'I

limited quantities generated by reverse osmosis desalination equipment using electricity generated from diesel fuel. This provides a regular and safe source of freshwater but is very costly to make and is limited to human consumption. Restoration efforts depend solely on the limited rain caught in rain catchments. The construction of a photovoltaic powered desalination plant would change life on Kaho'olawe. Sustainably available freshwater would not only support more people on Kaho'olawe to restore and care for the island, but the additional freshwater could be used to irrigate native plantings to restore the landscape and develop agriculture crops to sustain the island's population. The long-term study and viability of this project would also provide valuable data to implement similar systems across the state in remote communities also being affected by climate change and the lack of natural freshwater sources.

ALAN M. ARAKAWA Mayor

WILLIAM R. SPENCE Director

MICHELE CHOUTEAU McLEAN Deputy Director



COUNTY OF MAUI

SUPPORT FOR HB2035, HD1

Please accept this testimony in support of House Bill 2035, HD1, to establish a three-year pilot project to promote photovoltaic power desalination on Kaho`olawe.

I am the Chair and Maui County representative for the Kaho'olawe Island Reserve Commission (KIRC). This pilot project would be in keeping with the innovative approaches that KIRC personnel have taken to every task that has been charged to them; creating a sustainable fresh water source would be of tremendous value to the restoration efforts of Kaho'olawe, and will inform the State of the viability of such technology.

The KIRC's base camp at Honokanai`a currently operates a reverse osmosis desalination system that is powered by a diesel generator. While this provides a consistent source of fresh water, it is financially and environmentally unsustainable.

HB2035, HD1 would go a long way toward supporting KIRC's restoration efforts; please support its passage with funding of \$500,000 as recommended in the original measure.

Mahalo for your consideration and support,

much m

MICHELE MCLEAN Deputy Planning Director, County of Maui Chair, Kaho`olawe Island Reserve Commission





Department of Land and Natural Resources Aha Moku Advisory Committee State of Hawaii Post Office Box 621 Honolulu, Hawaii 96809

Testimony of Leslie Kuloloio Aha Moku Advisory Committee (AMAC) – Moku O Kanaloa (Kahoolawe)

Before the House Committee on Finance

Friday, February 26, 2016 11:00 A.M. State Capitol, Conference Room 308

In Consideration of SENATE BILL 2035 HD 1 RELATING TO SUSTAINABILITY

House Bill 2035 HD 1 establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kaho'olawe and to study the benefits of the technology's use. Aha Moku <u>SUPPORTS</u> this measure.

As the Po'o of the Aha Moku Advisory Committee representing the Island of Kahoolawe, I and the generational families and communities of Honuaula, the traditional moku attached to Kahoolawe, are strongly behind Aha Moku who supports this measure. Our direct ancestors gave all of the place names to the island. It is we who hold the knowledge of the ancient history and lineage of the ahupua'a on the island, of the ocean, the currents, the winds, and the water – every resource that is on or linked to the island.

Kahoolawe has no natural source of water due to the geographic location of the island and its proximity to Maui. It sits in the unprevailing winds and cloud line from Haleakala to Kahoolawe and thus receives little water. Kahoolawe is in the Kona side of Maui – a place where there is little or no rain.

This is generational knowledge of the people of Honuaula. Our suggestion is that the traditional families of Honuaula who have the generational knowledge of the resources of Kahoolawe be a part of the pilot project.

Submitted on: 3/14/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Anela Evans	Individual	Support	No

Comments:

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Submitted on: 3/17/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Cassandra L. Smith	Individual	Support	No

Comments:

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From:	mailinglist@capitol.hawaii.gov
To:	HWNTestimony
Cc:	coral.wolf@islandconservation.org
Subject:	Submitted testimony for HB2035 on Mar 18, 2016 15:00PM
Date:	Wednesday, March 16, 2016 11:50:47 AM

Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Coral Wolf	Individual	Support	No

Comments: I, Coral Wolf, am in support of HB 2035 which establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kaho`olawe and to study the benefits of the technology's use. This is a technology that is fundamental to the ability of the KIRC to provide volunteer opportunities to so many Hawaiian residents and will also serve as a model to the larger Hawaii community for using sustainable alternative energy.

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Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
David DeMark	Individual	Support	No

Comments: Please support HB 2035

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Submitted on: 3/15/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Dean Tokishi	Individual	Support	No

Comments:

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Submitted on: 3/13/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Don Aweau	Individual	Support	No

Comments: In full support of this legislation for continuing the perpetuation of the Kaho'olawe Island Reserve with it's sustainability plans. It is without question that funding for further sustainable resources and alternative energy measures are needed to continue the work being done to restore Kaho'olawe island. I urge Committee members to pass this legislation without hesitation. Mahalo nui loa.

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Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
James Bruch	Individual	Support	No

Comments:

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I, Jay F. Penniman, support KIRC bill HB2035.

I have been a volunteer, partner and supporter of restoration on Kaho'olawe for over 15 years. After the abuse of the aina by the US military and feral introduced animals for so many years the progress that the KIRC has made is truly remarkable. Please do the right thing and fully fund operations to continue the restoration of this valuable island.

Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come.

...

As the only Island Reserve set up entirely in trust for a Native Hawaiian Sovereign Entity, the KIRC is well poised to change the economic landscape and life quality of Native Hawaiians and the communities in which they reside by means of a truly unique experience on the island of Kaho'olawe. The State must maintain the responsibility of supporting the Kaho'olawe Rehabilitation Trust Fund.

As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system.

Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work.

Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill.

. . .

...

Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
John Stephens	Individual	Support	No

Comments: I, John Stephens, support KIRC bill HB2035. Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come. As the only Island Reserve set up entirely in trust for a Native Hawaiian Sovereign Entity, the KIRC is well poised to change the economic landscape and life quality of Native Hawaiians and the communities in which they reside by means of a truly unique experience on the island of Kaho'olawe. The State must maintain the responsibility of supporting the Kaho'olawe Rehabilitation Trust Fund. As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system. Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work. Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill. If you have other testimony that you feel should be added to this list for others to learn from, please hit reply to this email and share it.

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Submitted on: 3/13/2016 Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Kama Hopkins	Individual	Support	No

Comments:

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Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Kelly McHugh	Individual	Support	No

Comments: Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come.

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Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Lopaka White	Individual	Support	No

Comments:

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I, Lynx Gallagher, support KIRC bill HB2035

I am a Conservation Biologist Working For Maui Nui Seabird Recovery Project on the Island of Maui. I have had the opportunity to go out first hand and witness the beauty and importance of this amazing island. For me, it represents the most realistic and viable option (of any Hawaiian Island) for the continued survival of a number of threatened and endangered native seabirds if restoration and predator elimination efforts continue.

Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come

As the only Island Reserve set up entirely in trust for a Native Hawaiian Sovereign Entity, the KIRC is well poised to change the economic landscape and life quality of Native Hawaiians and the communities in which they reside by means of a truly unique experience on the island of Kaho'olawe. The State must maintain the responsibility of supporting the Kaho'olawe Rehabilitation Trust Fund.

As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system.

Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work.

Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill.

Submitted on: 3/16/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Martha Evans	Individual	Support	No

Comments: I, Martha Evans, humbly ask for your support of HB 2035, which establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kaho'olawe and to study the benefit. As we all know, the availability of fresh ground and surface water is the most important factor limiting growth in our island homes. The battle for water continues to this day with communities challenging big business and, in some cases each other, over water flow and allocation issues. One only need read the newspaper or watch the news to be reminded of the importance of water to our vitality as an island people. On Kahoolawe this challenge is compounded many times over. This bill will allow a PV project to bring a reliable supply of water to Kahoolawe. It isn't a luxury. It is a basic need. The PV system is an absolute necessity. Please support this measure. Respectfully, Martha Evans

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I am in support of HB 2035 which establishes a three-year pilot project to promote photovoltaic powered desalinization on the island of Kaho`olawe and to study the benefits of the technology's use. Kaho`olawe Island is a truly special and unique island in Hawaii where volunteers experience mālama 'āina practices and values through island restoration. Fundamental to the ability to provide this unique learning opportunity to so many Hawaiian residents is for the island to be self-sustaining including developing the technology for the island to provide clean drinking water to volunteers. Funding HB 2035 not only provides for the future restoration of Kaho`olawe, but can serve as a model for using sustainable alternative energy to provide for the people.

Sincerely, Mary Jo Mazurek

Submitted on: 3/15/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Noelani Puniwai	Individual	Support	No

Comments: I support reusable energy technology on Kahoolawe

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I, Rebecca Pederson, support KIRC bill HB2035.

Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come.

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As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system.

Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work.

I am the AmeriCorps Intern for Maui Nui Seabird Recovery Project and have worked with KIRC on two occasions. They provided us transportation to Molokini on two separate trips. The first trip was in November 2015 to band 218 Wedge-Tailed Shearwater chicks. The second trip was in January 2016 to conduct a survey on ants that negatively affect the island and its biodiversity. These trips would not have been possible without KIRC.

Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill.

Submitted on: 3/17/2016

Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Terri Gavagan	Individual	Support	No

Comments:

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Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Amanda Emmes	Individual	Comments Only	No

Comments: I, Amanda Emmes, support KIRC bill HB2035. ... Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come. ... As the only Island Reserve set up entirely in trust for a Native Hawaiian Sovereign Entity, the KIRC is well poised to change the economic landscape and life quality of Native Hawaiians and the communities in which they reside by means of a truly unique experience on the island of Kaho'olawe. The State must maintain the responsibility of supporting the Kaho'olawe Rehabilitation Trust Fund. ... As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system. ... Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work. ... Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill.

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Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Michelle Smith	Individual	Comments Only	No

Comments: I, Michelle Smith, support KIRC bill HB2035. From the stand point of a recent Marine Science graduate from UH Hilo and have grown to love and care for Hawaii. Please support this important measure to provide financial support and stability of the restoration and protection of the Kaho'olawe Island Reserve, which will benefit all of Hawai'i's people for generations to come. ... As the only Island Reserve set up entirely in trust for a Native Hawaiian Sovereign Entity, the KIRC is well poised to change the economic landscape and life quality of Native Hawaiians and the communities in which they reside by means of a truly unique experience on the island of Kaho'olawe. The State must maintain the responsibility of supporting the Kaho'olawe Rehabilitation Trust Fund. As the only island listed on the National Register of Historic Places in its entirety, containing nearly 3,000 archaeological sites and features, it is imperative that the State preserves this important resource for current and future generations through this financial support system. Without the KIRC's ongoing protection of Kaho'olawe's coastal ecosystem, including the adjacent nearshore environment and coral reefs that can be covered with, and choked by, derelict fishing gear, nets, a huge variety of plastics and other debris items, species including the endangered Hawaiian monk seal, threatened green sea turtle, endangered hawksbill sea turtle, endangered humpback whale, endangered Hawaiian dark-rumped petrel, and endangered Newell's shearwater will be put at risk. It is imperative that a trust fund be stabilized to continue this work. Kaho'olawe is a unique ecosystem preserving immensely valuable cultural and biological resources. It is surrounded by the richest marine ecosystems remaining in the Main Hawaiian islands and providing replenishment of fish and invertebrates to other islands' waters. The KIRC's massive restoration program designed to revitalize the ecology and cultural history of the island will benefit all of Hawai'i's people for generations to come. Please support this bill.

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Testimony for HWN/WLA/EET on Mar 18, 2016 15:00PM in Conference Room 224

Submitted By	Organization	Testifier Position	Present at Hearing
Susan Forsyth	Individual	Comments Only	No

Comments: I support this bill to continue the important work being done on this magnificent island. It is a cultural resource that needs continuing support from the Sate of Hawaii.

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