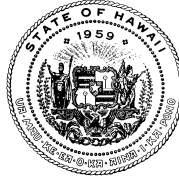


DAVID Y. IGE  
GOVERNOR OF HAWAII



VIRGINIA PRESSLER, M.D.  
DIRECTOR OF HEALTH

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. Box 3378  
Honolulu, HI 96801-3378  
doh.testimony@doh.hawaii.gov

WRITTEN  
TESTIMONY ONLY

**Testimony in SUPPORT of HCR 86**

REQUESTS THE DEPARTMENT OF HEALTH TO CONVENE  
A TASK FORCE TO IDENTIFY BARRIERS AND SOLUTIONS  
TO EXPANDED WATER REUSE IN THE STATE

SENATE COMMITTEE ON WATER AND LAND  
SENATOR KARL RHOADS, CHAIR

SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH  
SENATOR ROSALYN H. BAKER, CHAIR

Hearing Date: April 13, 2018  
Time: 10:30 AM

Room Number: 229

- 1 **Fiscal Implications:** The Department of Health (Department) would need resources to support the
- 2 task force that is covered under this measure and defers to the Governor's Supplemental Budget
- 3 Request for appropriation priorities.
  
- 4 **Department Testimony:** The Department has always been an advocate for water reuse provided
- 5 that public health and water resources are not compromised. Water reuse has become more
- 6 significant due to the state's growing population, limited potable water resources, and wastewater
- 7 disposal issues. As water energy demands and environmental needs grow, water reuse will play a
- 8 greater role in our overall water supply. By working together to overcome obstacles, water reuse,
- 9 along with water conservation and efficiency, can help us to sustainably manage our vital water
- 10 resources. Therefore, the Department supports this measure that involves the development of a task
- 11 force that will identify barriers and solutions to expand water reuse in the State.
  
- 12 Thank you for the opportunity to testify on this measure.

## BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843  
www.boardofwatersupply.com




April 13, 2018

KIRK CALDWELL, MAYOR

BRYAN P. ANDAYA, Chair  
KAPUA SPROAT, Vice Chair  
DAVID C. HULIHEE  
KAY C. MATSUI  
RAY C. SOON

ROSS S. SASAMURA, Ex-Officio  
JADE T. BUTAY, Ex-Officio

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

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

The Honorable Karl Rhoads, Chair  
and Members  
Committee on Water and Land

The Honorable Rosalyn H. Baker, Chair  
and Members  
Committee on Commerce, Consumer Protection, and Health  
Hawaii State Capitol, Room 229  
Honolulu, Hawaii 96813

Dear Chair Rhoads, Chair Baker and Members:

Subject: House Concurrent Resolution 86, Requests the Department of Health  
to Convene a Task Force to Identify Barriers and Solutions to  
Expanded Water Reuse in the State

The Honolulu Board of Water Supply (BWS) supports House Concurrent Resolution (HCR) 86, which requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in the state.

The State Department of Health (DOH) has been working diligently in regulating expanded water reuse. In our experience with recycled water on Oahu, there are areas in the DOH Reuse Guidelines where best management practices could be improved to reduce the regulatory and reporting requirements such as allowing irrigation of R-1 recycled water during the day so that irrigation systems can be adjusted and maintained. We note that R-1 recycled water is disinfected and poses no impact to public health relative to other types of nonpotable irrigation water supplies.

Because recycled water extraction may impact wastewater treatment and collection systems, we have no objections if a wastewater agency is represented on the proposed task force.

Thank you for your consideration of our testimony on HCR 86.

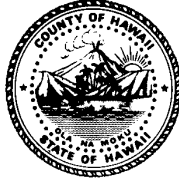
Very truly yours,



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

**Harry Kim**  
*Mayor*

**Wilfred M. Okabe**  
*Managing Director*



**William A. Kucharski**  
*Director*

**Diane A. Noda**  
*Deputy Director*

**County of Hawai'i**  
**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

345 Kekūanāʻo Street, Suite 41 · Hilo, Hawai'i 96720  
(808) 961-8083 · Fax (808) 961-8086  
cohdem@co.hawaii.hi.us

<http://www.hawaiicounty.gov/environmental-management/>

April 10, 2018

Senator Karl Rhoads, Chair  
Committee on Water and Land  
Senator Rosalyn Baker, Chair  
Committee on Commerce, Consumer Protection, and Health  
State of Hawai'i Senate  
Hawai'i State Capitol  
415 South Beretania Street  
Honolulu, Hawai'i 96813

Re: **Support for HCR 86**  
**(Relating to Water Reuse)**  
Date: April 13, 2018 (Friday)  
Time: 10:30 a.m.

Dear Chairperson Rhoads, Chairperson Baker and Members of the Committees on Water and Land and Commerce, Consumer Protection, and Health:

The County of Hawaii (COH) supports HCR 86.

1. The creation of a water reuse task force within the department of health is a positive step forward and by focusing on water reuse before our water resources are critically depleted supports the residents of the County of Hawai'i (COH) and all residents in the State. Sustainability requires long range planning and thinking. Water is our most critical resource, one that we have taken for granted for far too long. Bringing the issue of reuse to the forefront is appropriate and positively supported.
2. The County of Hawai'i (COH) has undertaken a major upgrade to our Kona waste water treatment plant and will be producing R1 water targeted for reuse in COH by 2020. A study of ways to make this resource easier to procure and utilize is welcomed and supported.
3. This resolution is a positive step forward in attempting to address a critically vital issue in the State of Hawaii.

Thank you for your consideration of this testimony.

Sincerely,

A handwritten signature in black ink, appearing to read "W. A. Kucharski".

**William A. Kucharski, Director, Department Environmental Management, COH**

an Equal Opportunity Provider and Employer.

**HCR-86**

Submitted on: 4/12/2018 10:10:30 AM

Testimony for WTL on 4/13/2018 10:30:00 AM

Submitted By	Organization	Testifier Position	Present at Hearing
Melodie Aduja	Testifying for Oahu County Committee on Legislative Priorities of the Democratic Party of Hawai'i	Support	No

Comments:

To the Honorable Karl Rhoads, Chair; the Honorable Mike Gabbard, Vice-Chair and Members of the Committee on Water and Land:

To the Honorable Rosalyn H. Baker, Chair; the Honorable Jill N. Tokuda, Vice-Chair and Members of the Committee on Commerce, Consumer Protection, and Health:

Good morning. My name is Melodie Aduja. I serve as Chair of the Oahu County Committee ("OCC") on Legislative Priorities of the Democratic Party of Hawaii. Thank you for the opportunity to provide written testimony on **HCR86** relating to the Department of Health convening a task force to identify barriers and solutions to expanded water reuse.

The OCC on Legislative Priorities is in favor of **HCR86** and strongly supports its adoption.

**HCR86** is in accord with the Democratic Platform as it requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in the State, of which task force shall: (1) Collaborate with other federal, state, and county agencies and private entities; (2) Review findings of how water reuse and gray water regulations are administered in other states, localities, and countries, and assess the feasibility of implementing similar regulations in Hawai'i; (3) Examine proposed language for future regulation or policy changes in Hawai'i; and (4) Identify and rank potential demonstration projects for water reuse in Hawai'i.

The DPH Platform states that "[t]he Democratic Party of Hawai'i believes that the preservation and restoration of our natural environment are essential. We support a sustainable society that utilizes the earth in such a way that future generations will benefit from the practices of our generation. We support the restoration, preservation, and protection of our native ecosystems on each island. We believe in integrated approaches, practices, and support public policies that create and maintain a sustainable way of life in Hawai'i.

We believe in supporting best management practices in sustaining our environment and in increased citizen involvement. We support programs that encourage sustainable clean, efficient, creative and environmentally friendly modes of transportation, recycling, and waste reduction.

The conservation, preservation, and restoration of Hawaii's natural resources are connected to the health and welfare of our people; therefore, we support the conservation and protection of our natural environment, which includes reducing our carbon footprint for the benefit of current and future generations.

We support the protection of our 'aina against destruction by corporate, government, or military usage and expect full restoration and reparation of environmental damage. To handle current and future demands for water, we must assess the current condition of our aquifers and take appropriate actions to secure our freshwater resources.

We support the democratic participation of citizens and residents to protect (i) valuable coastal ecosystems and reefs from misuse and (ii) beaches for public use and recreation. The Hawai'i Coastal Zone Management (CZM) law, HRS Chapter 205A, currently provides for public participation in the management of coastal resources.

We believe in the vigorous enforcement of our environmental laws and increased public-private stewardships and citizen involvement in protecting our resources.

We know that climate change is a real threat to our islands and the world. We strongly urge our candidates and elected officials to take immediate action to mitigate and adapt to the consequences of climate change. This includes funding adaptation measures including coastal retreat, effective participation of indigenous peoples in climate change governance, and recognition that indigenous, local, and traditional ecological knowledge is key in climate change adaptation solutions. (Platform of the DPH, P.8, Lines 407-433 (2016)).

Given that **HCR86** requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in the State, of which task force shall: (1) Collaborate with other federal, state, and county agencies and private entities; (2) Review findings of how water reuse and gray water regulations are administered in other states, localities, and countries, and assess the feasibility of implementing similar regulations in Hawai'i; (3) Examine proposed language for future regulation or policy changes in Hawai'i; and (4) Identify and rank potential demonstration projects for water reuse in Hawai'i, it is the position of the OCC Legislative Priorities Committee to strongly support its adoption.

Thank you very much for your kind consideration.  
Sincerely yours,

/s/ Melodie Aduja  
Melodie Aduja, Chair, OCC Legislative Priorities Committee  
Email: legislativepriorities@gmail.com, Text/tel.: (808) 258-8889



Email: [communications@ulupono.com](mailto:communications@ulupono.com)

SENATE COMMITTEES ON WATER & LAND AND COMMERCE, CONSUMER PROTECTION, &  
HEALTH

Friday, April 13, 2018 — 10:30 a.m. — Room 229

**Ulupono Initiative Strongly Supports HCR 86, Requests the Department of Health to Convene a Task Force to Identify Barriers and Solutions to Expanded Water Reuse in the State**

Dear Chair Rhoads, Vice Chair Gabbard, Chair Baker, Vice Chair Tokuda, and Members of the Committees:

My name is Kyle Datta and I am General Partner of Ulupono Initiative, a Hawai'i-based impact investment firm that strives to improve the quality of life for the people of Hawai'i by working toward solutions that create more locally produced food; increase affordable, clean, renewable energy; and better management of waste and fresh water. Ulupono believes that self-sufficiency is essential to our future prosperity and will help shape a future where economic progress and mission-focused impact can work hand in hand.

**Ulupono strongly supports HCR 86**, which requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in Hawai'i.

Water is the most important natural resource and critical to the survival of the people of Hawai'i. Therefore, water must be protected and managed in a diligent manner. Water reuse is often the most environmentally prudent method of using water.

Ulupono supports this resolution to convene a task force of experts to identify barriers and solutions for increased water reuse. Water stakeholders, including regulators, often work in silos and having these entities interact together will lead to better outcomes.

Hawai'i's agricultural industry relies on a constant supply of water as farmers and ranchers often struggle to keep their businesses alive. In recent years, the state has suffered through severe drought conditions including a two to three decade downward trend in rainfall, which heavily impacts our local agricultural communities. As droughts are increasing, it becomes more important for the Legislature to protect our island's most valuable natural resource.

As Hawai'i's water issues become more complex and challenging, we appreciate these

*Investing in a Sustainable Hawai'i*



committees' efforts to look at policies that protect our water resources.

Thank you for this opportunity to testify.

Respectfully,

Kyle Datta  
General Partner





# Wai Maoli

HAWAII FRESH WATER INITIATIVE

827 Fort Street Mall | Honolulu, HI 96813 | (808) 537-6333  
HawaiiCommunityFoundation.org

## Fresh Water Council Members

William Aila

Stephen Anthony\*

Michael Buck

Suzanne Case

Reginald Castanares

Meredith Ching

Derek Chow

Ka'eo Duarte

Sumner Erdman

Mark Fox

Thomas Giambelluca

Timothy Johns

Howard Killian

Patrick Kobayashi

Ernest Lau

Keith Okamoto

Jerry Ornellas

Monty Richards

Kapua Sproat

David Taylor

Dennis Teranishi

Barry Usagawa

\*US Geological Survey  
Liaison/Scientific Advisor to HCF

**Testimony of the Hawaii Fresh Water Initiative on H.C.R. 86  
Relating to Expanding Water Reuse  
Senate Committee on Water and Land and Senate Committee on Commerce, Consumer  
Protection and Health  
Friday, April 13<sup>th</sup>, 2018  
10:30am  
Conference Room 329**

Aloha Chair Rhoads, Chair Baker, Vice Chair Tokuda, Vice Chair Gabbard, and Members of the Committees,

The Fresh Water Initiative strongly supports **H.C.R. 86**, which requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in the state.

The Hawaii Fresh Water Initiative was launched in 2013 and gathered a diverse Fresh Water Council to develop a forward-thinking and consensus-based strategy to increase water security for Hawaii. The blue-ribbon panel of water stakeholders jointly and unanimously recommend key strategies and policies with an ultimate goal of creating 100 million gallons per day (mgd) in additional, reliable fresh water capacity by 2030. One of the goals is to double the amount of wastewater reused in an effort to reduce the impact on Hawaii's groundwater.

**H.C.R. 86** will help Hawaii reach this goal through a diverse task force that is committed to collaboration, research, and water reuse implementation. Water reuse will be an increasingly important technique to utilize in Hawaii as climate change persists, droughts intensify, and populations rise.

The Fresh Water Initiative is in support of **H.C.R. 86** and is open to partnering further on this resolution.

Respectfully,  
Tim Johns, Chair  
Fresh Water Council



**HAWAI'I COMMUNITY FOUNDATION**  
*Amplify the Power of Giving*

**Testimony of the Hawaii Community Foundation on H.C.R. 86  
Relating to Expanding Water Reuse  
Senate Committee on Water and Land and Senate Committee on Commerce, Consumer  
Protection and Health  
Friday, April 13<sup>th</sup>, 2018  
10:30am  
Conference Room 329**

Aloha Chair Rhoads, Chair Baker, Vice Chair Tokuda, Vice Chair Gabbard, and Members of the Committees,

The Hawaii Community Foundation (HCF) strongly supports **H.C.R. 86**, which requests the Department of Health to convene a task force to identify barriers and solutions to expanded water reuse in the state.

Studies have shown that Hawaii has seen an 18% reduction in rainfall from 1978 to 2007. Reduced precipitation, rising populations, and increased development of our land is making Hawaii's water security more vulnerable than ever. Hawaii Community Foundation has been a continued supporter and convener of Hawaii's Fresh Water Initiative, which is dedicated to increasing water security throughout the islands through initiatives and policies in water reuse, conservation, and recharge.

The Fresh Water Initiative has recognized that diverting wastewater to other freshwater applications is a valuable technique for both reusing and preserving water resources. Hawaii Community Foundation is in support of **H.C.R. 86** since its passage will help identify both the barriers and solutions to increasing water reuse on our islands. Collaboration, research, policies, and demonstrations will be invaluable to reaching Hawaii's goal of doubling the amount of wastewater currently being reused.

HCF strongly supports **H.C.R. 86** and we stand ready to collaborate and assist in moving Hawaii towards increased water reuse and strengthened water security.

For questions, please contact Dana Okano, PhD, AICP, Program Director, Hawai'i Community Foundation at [dokano@hcf-hawaii.org](mailto:dokano@hcf-hawaii.org).

**HCR-86**

Submitted on: 4/11/2018 3:33:03 PM

Testimony for WTL on 4/13/2018 10:30:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Carl M Jellings Sr	Individual	Support	No

Comments: