JOSH GREEN, M.D. GOVERNOR | KE KIA'ĂINA

SYLVIA LUKE LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA





STATE OF HAWAI'I | KA MOKU'ĀINA 'O HAWAI'I DEPARTMENT OF LAND AND NATURAL RESOURCES KA 'OIHANA KUMUWAIWAI 'ĀINA

P.O. BOX 621 HONOLULU, HAWAII 96809

Testimony of DAWN N. S. CHANG Chairperson

Before the House Committees on WATER & LAND and ENERGY & ENVIRONMENTAL PROTECTION

Thursday, March 16, 2023 9:05 AM State Capitol, Conference Room 325 & Videoconference

In consideration of SENATE BILL 1066, SENATE DRAFT 2 RELATING TO FRESH WATER SECURITY

Senate Bill 1066, Senate Draft 2 proposes to: 1) establish within the Commission on Water Resource Management (Commission) of the Department of Land and Natural Resources (Department) a Water Security Working Group to study and recommend priority capital improvement projects for legislative consideration and approval that leverage public-private investment to increase Hawai'i's water security; and 2) appropriate an unspecified amount of general funds to Department for the purposes of this bill. **The Department supports this measure, provided that its passage does not replace or adversely impact priorities indicated in the Executive Budget request, and offers the following amendments.**

A variety of planning documents already exist to assist in the generation of a priority capital improvement projects list. This includes components of the Commission's Hawai'i Water Plan (HWP) such as the:

- State Water Projects Plan (SWPP) includes an inventory of state water resources including wells, stream diversions and state water systems and an inventory of state projects and water demands over the next 20 years.
- Agriculture Water Use and Development Plan (AWUDP) includes an inventory of agricultural water systems, rehabilitation costs, and long-range strategies for irrigation system repairs and management.

DAWN N.S. CHANG CHAIRPERSON BOARD OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

> LAURA H.E. KAAKUA FIRST DEPUTY

M. KALEO MANUEL DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES BOATING AND OCEAN RECREATION BUREAU OF CONVEYANCES COMMISSION ON WATER RESOURCE MANAGEMENT CONSERVATION AND CASTAL LANDS CONSERVATION AND RESOURCES ENFORCEMENT ENGINEERING FORESTRY AND WILDLIFE HISTORIC PRESERVATION KAHOOLAWE ISLAND RESERVE COMMISSION LAND STATE PARKS • County Water Use and Development Plans (WUDPs) – includes an inventory of future water demands within each county and development strategies to meet projected demands.

Other supporting documents and initiatives include:

- Water Reuse Task Force Legislative Report identifies potential demonstration projects for water reuse in Hawai'i.
- The Department's Division of Forestry and Wildlife's (DOFAW) Watershed Initiative DOFAW curates and updates a list of priority watershed capital improvement projects statewide (aka: watershed fences).
- Commission's Water Audit Data provides data on water loss and recommendations for public water system improvements.
- Act 170, Session Laws of Hawaii 2016, requires that the HWP be directed toward achieving the utilization of reclaimed water for uses other than drinking and for potable water needs in 100% of state and county facilities by December 31, 2045. Since the Act was put in place, there has been no coordinated strategy with state and county agencies to meet this goal.

The Department acknowledges that these documents and initiatives do not represent the full suite of potential water capital improvement projects. The Water Security Working Group could synthesize these existing resources to begin to generate a list of priority projects.

Given that a variety of plans, documents and initiatives already exist to assist in the generation of a priority capital improvement project list, the Department recommends a funding amount of \$50,000 since most of this work can be done in-house by amending (highlighted in gray) SECTION 3 to read as follows:

SECTION 3. There is appropriated out of the general revenues of the State of Hawaii the sum of \$50,000 or so much thereof as may be necessary for fiscal year 2023-2024 for the working group's support, travel, meeting, and operational costs;

Another bill, House Bill 1212, House Draft 1 proposes to establish a task force within the Commission to create a water neutrality plan. The purposes of House Bill 1212, House Draft 1, to develop a plan to reduce water usage and increase fresh water supply, has overlap with Senate Bill 1066, Senate Draft 2 and could be informed by the list of projects and developed by the Water Security Working Group.

The Department appreciates the amendments in Senate Draft 2 establishing the Water Security Working Group within the Commission.

Mahalo for the opportunity to provide testimony in support of this measure.

BOARD OF WATER SUPPLY

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



RICK BLANGIARDI, MAYOR

BRYAN P. ANDAYA, Chair KAPUA SPROAT, Vice Chair MAX J. SWORD NA`ALEHU ANTHONY JONATHAN KANESHIRO

DAWN B. SZEWCZYK, P.E., Ex-Officio EDWIN H. SNIFFEN, Ex-Officio

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

ERWIN M. KAWATA Deputy Manager

The Honorable Linda Ichiyama, Chair and Members House Committee on Water and Land Hawaii State Capitol, Room 325 Honolulu, Hawaii 96813

The Honorable Nicole E. Lowen and Members House Committee on Energy and Environmental Protection Hawaii State Capitol, Room 325 Honolulu, Hawaii 96813

Dear Chair Ichiyama, Chair Lowen and Members:

SUBJECT: Senate Bill 1066, SD2: Relating to Fresh Water Security

The Honolulu Board of Water Supply (BWS) supports Senate Bill (SB) 1066, Senate Draft (SD) 2, which establishes within the Commission on Water Resources Management (CWRM) a water security working group to study and recommend, for legislative consideration and approval, priority capital improvement projects, including funding and financing strategies for each project, that leverage public-private investment to increase Hawaii's water security.

For your information, the State's Hawaii Water Plan component plans for resource protection, State water projects and agriculture and county water use and development plans, and the Hawaii Community Foundation's Freshwater Initiative and water security strategies will provide important guidance to the proposed water security working group. Current focus of the Freshwater initiative involves on-site stormwater and gray water reuse and opportunities exist in the transit oriented development areas of Honolulu. Expansion of R-1 recycled water projects in the Ewa and Wahiawa-Whitmore areas for urban and agriculture uses can be more collaboratively supported by the objectives of this bill and the working group.

Thank you for the opportunity to testify in support of SB 1066, SD2.

Very truly yours,

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

m



March 10, 2023

Representative Linda Ichiyama, Chair Representative Mahina Poepoe, Vice Chair House Committee on Water & Land

Testimony in Support of SB 1066, S.D. 2, Relating to Fresh Water Security (Establishes within the Commission on Water Resource Management [CWRM] a water security working group to study and recommend, for legislative consideration and approval, priority capital improvement projects, including funding and financing strategies for each project, that leverage public-private investment to increase Hawaii's water security. Makes an appropriation. Effective 7/1/2050.)

Thursday, March 16, 2023, 9:05 a.m. State Capitol, Conference Room 325, Via Videoconference

The Land Use Research Foundation of Hawaii (LURF) is a private, non-profit research and trade association whose members include major Hawaii landowners, developers, and utility companies. LURF's mission is to advocate for reasonable, rational, and equitable land use planning, legislation and regulations that encourage well-planned economic growth and development, while safeguarding Hawaii's significant natural and cultural resources, and public health and safety.

LURF appreciates the opportunity to provide testimony in support of this measure.

SB 1066, S.D. 2. This bill proposes to establish and appropriate funds for a water security working group within the CWRM to study and recommend priority capital improvement projects that leverage public-private investment to increase the State's water security.

LURF's Position.

LURF members include private property owners, farmers and ranchers who own, maintain, and utilize dams and reservoirs, and who consider such resources critical to conduct their agricultural operations and to sustain their businesses.

The State government, departments and agencies recognize that dams and reservoirs are recognized as being critical to the conduct of agricultural operations and businesses, as well as for their vital contributions to the community such as providing drinking water, renewable energy, and flood control, which are extremely important functions necessary to sustain the State's water resources and to promote public safety.

Large amounts of prime agricultural lands and irrigation systems have been made available for conversion to diversified agriculture as a result of the plantation closures in the 1990s, and the opportunity presently exists to strengthen and expand Hawaii's diversified agriculture industry. Agricultural lands, however, require significant quantities of water to support and maintain productivity. Local farmers are thus relying on State agencies to continue working toward expansion of diversified agriculture; promoting the agricultural self-sufficiency of the State; and protecting water as an important resource, which includes and incorporates dam safety.

Landowners and agricultural stakeholders believe the establishment of the working group will greatly assist with concerns regarding compliance with current safety standards, including requirements of the dam and reservoir safety program administered by the DLNR, safety requirements for dams and reservoirs imposed by the program, as well as costs which must be incurred for maintenance and upgrade of structures which are presently considered untenable.

Hawaii is already witnessing the local effects of climate change such as rising temperatures; decreased rainfall and stream flow; and increased drought and storms. Such conditions caused by climate change are not only detrimental to local food production but exacerbate the State's excessive reliance on imported food as well. Food security and adaptation to climate change are critical concerns, and irrigation and water storage are increasingly more important to food production.

Without the benefit of input from all stakeholders, the State may be unaware of such practical problems and concerns, as well as critical funding decisions such as the implementation of excessive assessments or fees charged to agricultural landowners upon which the dams and reservoirs are located, as proposed in the past. In such case, those unreasonably exorbitant assessments and fees will ultimately and inappropriately be passed on to the landowners and farmers who lease the agricultural land.

As this Committee may already be aware, the unsustainable costs cast upon landowners and agricultural stakeholders by the safety program are a serious concern, as are overly burdensome regulations relating to maintenance and operation of dams and reservoirs, which are proving to be potentially counterproductive to the long-term objective of preserving these facilities as valuable water sources.

As potential issues relating to public health, and food safety and security continue to be a significant concern of agricultural stakeholders, LURF and its members appreciate this measure proposed to allow consideration of the interests of dam and reservoir owners, and the acknowledgement of dams and reservoirs being vital water resources for the State, and the need for critical and consistent maintenance and operation of the systems in a safe and feasible manner.

For the reasons set forth above, LURF is in **support of SB 1066**, **S.D. 2**, and the establishment of the working group, and respectfully requests this Committee's favorable consideration of this measure, as well as its prudent appointment of agricultural stakeholders and landowners with dams, reservoirs, and appurtenant improvements located on their respective properties, as essential members of the group.

Thank you for the opportunity to present testimony regarding this matter.



Email: <u>communications@ulupono.com</u>

HOUSE COMMITTEES ON WATER & LAND AND ENERGY & ENVIRONMENTAL PROTECTION Thursday, March 16, 2023 — 9:05 a.m.

Ulupono Initiative <u>supports</u> SB 1066 SD2, Relating to Fresh Water Security.

Dear Chair Ichiyama, Chair Lowen, and Members of the Committees:

My name is Micah Munekata, and I am the Director of Government Affairs at Ulupono Initiative. We are a Hawai'i-focused impact investment firm that strives to improve the quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food, renewable energy and clean transportation choices, and better management of freshwater resources.

Ulupono <u>supports</u> SB 1066 SD2, which establishes within the Commission on Water Resource Management a Water Security Working Group to study and recommend, for legislative consideration and approval, priority capital improvement projects, including funding and financing strategies for each project, that leverage public-private investment to increase Hawai'i's water security.

Ulupono supports the State's efforts to increase our water security for the health and wellbeing of our communities. This working group seeks to identify priority infrastructure projects to support our important watersheds, dams and reservoirs, water transmission, and irrigation systems, all while encouraging responsible water re-use and increasing our quality and quantity of community water supply. With recent events such as the Red Hill fuel contamination as well as longer term trends such as declining rainfall over the last 20 years due to climate change, there is more need to protect and enhance our freshwater resources than ever before. This group will be beneficial as we look to meet our sustainability goals around water security here in Hawai'i.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata Director of Government Affairs

Investing in a Sustainable Hawai'i

<u>SB-1066-SD-2</u> Submitted on: 3/10/2023 9:50:58 PM Testimony for WAL on 3/16/2023 9:05:00 AM

Submitted By	Organization	Testifier Position	Testify
Dana Keawe	Individual	Support	Written Testimony Only

Comments:

support

<u>SB-1066-SD-2</u> Submitted on: 3/13/2023 10:27:00 AM Testimony for WAL on 3/16/2023 9:05:00 AM

Submitted By	Organization	Testifier Position	Testify
Will Caron	Individual	Support	Written Testimony Only

Comments:

Please support SB1066 SD2.

Testimony of Michael G. Buck on S.B. 1066.SD2 Relating to Fresh Water Security House Committees on Water and Land and Energy and Environmental Protection Thursday, March 16, 2023 Conference Room 325

Thank you for the opportunity to submit testimony in strong support of SB 1066, SD2. I have been involved in freshwater security issues in Hawaii for over 30 years working professionally for DLNR and currently serving my second term as a Water Commissioner. During my last 8 years on the Water Commission, the majority of the conflicts we have dealt with have been aggravated by the lack of public and private investment in our freshwater security infrastructure.

The deliverable, if this measure is passed, is a priority list of CIP projects for legislative consideration, that increase Hawai'i's water security through projects that increase recharge, boost water reuse, and improve water efficiency across the state. These projects can kick start public-private partnerships that utilizes the full spectrum of investment capital, ranging from State capital improvement funds to leverage other grants, loans, and in-kind services from funding partners. An example project is the Watershed Partnerships the source of all of Hawaii's fresh water, where public capital improvement bond funding is currently providing a key source of support that encourages public, private, and non-governmental entities to actively participate.

The DLNR's Water Commission is the best entity to administer this bill as it already has done extensive work that can produce meaningful results in the short time frame called for to get priority projects for your consideration next session.

Attached to this testimony is a Honolulu Star-Advertise September 2022 editorial that provides context for this measure, which I strongly support.

Michael Buck

Honolulu Star-Advertiser - 09/11/2022 By Michael Buck, Neil Hannahs and En Young

The continuing Red Hill saga and Ka'eo Duarte's recent appeal to "Protect Hawaii's water supply before it's too late" bring needed attention to the urgency and challenges of ensuring water security (Star-Advertiser, Island Voices, Aug.7). Optimizing recharge, prudent use and future abundance involves multi-party, inter-disciplinary issues that cut across myriad agencies and public/private interests. Here are four priority action areas that will increase our water supply, modernize essential infrastructure and catalyze co-investment from diverse sources.

>> Protect and manage Hawaii's forested watersheds. Mauka forests are the source of Hawaii's fresh water. Watershed partnerships have formed across the state, but erratic funding compromises the efficacy of these voluntary agreements between public and private landowners. Funding should be increased and sustained to not simply delay the inevitable im- pacts of existential threats, but pro- duce compelling and enduring returns. A University of Hawaii Economic Research Organization (UHERO) study estimated that investing \$43.2 million in watershed resto- ration in the Koolau mountains alone could result in over \$900 million in realized water value for Oahu.

>> *Renovate dams and reservoirs.* Most reservoirs are privately owned, unlined, not maintained to current safety standards, and more liabilities than assets for the owners. Many have been decommissioned or are operated at reduced capacities. Public/private investments can address safety concerns, provide flood control and energy, capture episodic deluges and store water for agriculture and recreation. Reservoirs should have intakes that can be opened in real time to divert and capture water during storm events and closed to limit diversion and ensure streamflow through extended dry periods.

>> *Improve efficiency of irrigation systems*. Most surface water delivery systems are ancient, inefficient, privately owned, and not designed for our changing climate. Losses from open ditches and leaky infrastructure typically exceed 20%, often by a lot! These systems need to be piped, lined, and patched. Modernized infrastructure will benefit our agricultural economy, as well as constitutionally protected public trust requirements of ecosystems, traditional cultural practices, Department of Hawaiian Homelands, drinking water and food production. All have cause to make proportional contributions to defray costs.

>> *Increase gaging and monitoring*. It is difficult to manage what is not measured. An unpredictable climate requires consistent and comprehensive gathering and analysis of water data. More gaging stations, monitoring wells and reporting from private users are needed to inform sound decision-making. The state Water Commission and county agencies should be provided sufficient staffing to implement Hawaii's progressive water laws.

In 2016, the Fresh Water Council recommended a pilot Natural Capital Investment Partnership to leverage state funds with federal, county, and private dollars. The goal was to amass, coordinate and unleash public and private resources. This was a good idea six years ago and a better one today. Watershed partnerships have proven that collaborative funding works. We should now broaden the spectrum of financial tools to include grants, loans, guarantees, and interest subsidies ... investments seeking a blend of outcomes, as well as capital expecting commercial returns.

Capital improvement bonds could be deployed to create a water security project fund that enables government appropriation to pay for societal benefits and private capital to finance impacts that generate business revenue streams or land value appreciation. The risks of doing nothing are enormous. The Red Hill fuel leak and the climate change-induced water crisis unfolding around the globe offer potent reminders of the human, economic and environmental harms of dramatic reduction in fresh water supply. These alarming circum- stances demand innovative strategies that braid streams of capital to make long-needed projects viable.

We call upon political officials, as well as business and community leaders to invest cooperatively and equitably in the water needed to support our existence. Ola i ka wai!

Date: 3/15/2023 TO: Hawai'i House of Representatives FROM: Parker Miles Smith, Hawai'i Preparatory Academy Student, Class of 2023 SUBJECT: Testimony in Support of SB 1066.SD2

Dear Hawai'i Legislators:

This year as a high school senior on the island of Hawai'i, I studied past and present water protection in Hawai'i as part of my capstone thesis. This included attending a water resource conference, listening to the first hearing of this bill, extensive reading, and conducting interviews with various stakeholders, including ranchers, a retired water commissioner, a journalist, and a native Hawaiian water expert, all related to the issues involving water in Hawai'i. I was born and raised on the Big Island, and believe in take-charge initiatives for the preservation of our freshwater resources. I believe that bill SB 1066.SD2 will be a positive first step toward ensuring water security for future generations. SB 1066.SD2 emphasizes the crucial goal of a proactive approach, rather than reactive water legislation.

This testimony is in support of SB 1066.SD2. SB 1066.SD2, whose objective is to create a task force within the DLNR focussed on the planning and funding of water improvement projects (associated with wells, pipelines, etc.), is salient and timely for the well-being of the state of Hawai'i. This is a step to ensure water security. Groundwater provides 99% of Hawai'i's domestic water supply and most improvement projects would be pertinent to sources of groundwater. SB 1066.SD2 is a logical step that leads Hawai'i to water security.

Water in Hawai'i is taken for granted by industry and most of the private sector. In Hawai'i, water protection is under-planned and underfunded in improvement projects. It is the role of the legislature to plan for the future and put systems in place that will ensure water security for years from now. The current infrastructure requires modernization to improve water security in Hawai'i, such as near-shore transmission lines, water lines, sewer lines, water retaining structures, etc. We can not wait until the next water disaster (contamination or aquifer depletion) to improve projects in the state. In the face of increased demand for water on all islands and the changing climate, the establishment of a committee, as proposed in SB 1066.SD2, will make wise and effective use of taxpayer dollars to improve projects that impact water security in Hawai'i. Sincerely,

Parker Miles Smith psmith@hpa.edu

Porker M. Smith