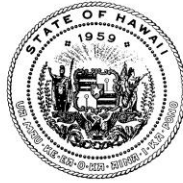


NEIL ABERCROMBIE
GOVERNOR OF HAWAII



LORETTA J. FUDDY, A.C.S.W., M.P.H.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
HONOLULU, HAWAII 96801-3378

In reply, please refer to:
File:

HOUSE COMMITTEE ON WATER AND LAND
S.B. 454 SD1 HD1, RELATING TO WATER CONSERVATION

Testimony of Loretta J. Fuddy, A.C.S.W., M.P.H.
Director of Health

April 1, 2013
10:30 am

- 1 **Department's Position:** The Department of Health (Department) strongly supports this measure.
- 2 **Fiscal Implications:** None.
- 3 **Purpose and Justification:** The bill amends Section 342D-1, Hawaii Revised Statutes (HRS) by
- 4 adding a definition for gray water. The bill also amends Section 342D-70 by stating that the use of gray
- 5 water shall conform to the State Plumbing Code (Chapter 3-183, Hawaii Administrative Rules (HAR)).
- 6 The Department supports efforts to encourage the use of gray water for landscape irrigation and concurs
- 7 with the proposed amendments.

8 In summary, the Department strongly supports this measure. Thank you for the opportunity to

9 testify on this measure.

10
11
12



SB454 SD1 HD1
RELATING TO WATER CONSERVATION
House Committee on Water and Land

April 1, 2013

10:30 a.m.

Room 325

The Office of Hawaiian Affairs (OHA) **SUPPORTS** SB454 SD1 HD1, which would encourage more efficient use of our limited fresh water resources.

Fresh water is unquestionably one of Hawai'i's most valuable resources. The importance of fresh water to Hawai'i and its people is reflected in the 'ōlelo noeau, "Ola i ka Wai (Water is Life)." Accordingly, traditional water sharing and management practices reflected the critical nature of fresh water to these islands, and helped to ensure sufficient fresh water for food production, drinking, and other domestic uses, as well as numerous ecological services. Fortunately, despite the disruption of these traditional practices and many mauka to makai surface water resources, the discovery and utilization of Hawai'i's groundwater aquifer system has continued to bless its residents with potable fresh water of the highest quality.

Unfortunately, our ever-growing agricultural and municipal water needs and practices have begun to raise the substantial possibility of fresh water shortfalls for many regions within these islands, potentially in the very near future. The consequences and costs of such shortfalls counsel critical and timely examination of our water use and watershed conservation practices. The use of our limited supply of pure, potable fresh water for agricultural irrigation purposes has fallen under particular criticism in recent years. Failure to reuse gray or treated water for non-drinking purposes, such as large-scale agriculture, has been cited as a contributing factor in our potential fresh water shortfalls.

This bill is a small step forward to encourage Hawai'i's residents and policymakers to adopt more efficient water use practices, in order to mitigate or avoid the costs of potentially imminent groundwater shortfalls. By encouraging and setting guidelines for the use of untreated gray water for water conservation purposes, this bill will promote the exploration and widespread acceptance of water conservation measures already taken in many other jurisdictions. This in turn may lead to the necessary infrastructure upgrades for a more modern, efficient, and sustainable water supply system in Hawai'i nei.

Therefore, OHA urges the Committee to **PASS** SB454 SD1 HD1. Mahalo for the opportunity to testify.



LANDSCAPE INDUSTRY COUNCIL OF HAWAI'I

January 26, 2013

TESTIMONY FOR SENATE BILL N.O. 454

SENATE COMMITTEE ON WATER AND LAND
AND
SENATE COMMITTEE ON ENERGY AND ENVIRONMENT

The Landscape Industry Council of Hawaii supports Senate Bill 454 Relating to Water Conservation by encouraging the use of graywater for irrigation purposes.

The Landscape Industry Council of Hawaii has led the state on Irrigation Water Conservation being the first industry sector to produce comprehensive water conservation measures. The LICH Irrigation Conservation BMPs can be found online at: www.landscapehawaii.org/library/documents/lich_irrigation_conservation_bmps.pdf.

Graywater is wastewater generated from domestic activities such as laundry or bathing, which can be recycled on-site for uses such as landscape irrigation. Graywater usage is essential with the rising cost of water & sewer, increase in population & strains on water supply and the high cost of energy to transport water. It saves our precious water for human consumption. Graywater is actively being used in many parts of the United States, Europe and Asia.

Currently, the State Department of Health (DOH) does not allow graywater usage unless granted a special permit from DOH. For generations, Hawaii families have conserved water by recycling washing machine water for watering plants. This graywater activity should be exempt from permits.

Landscape Industry Council of Hawaii supports Senate Bill 454 and proposes amending the bill to exempt all permits for graywater systems in a one or two-family residential dwellings that are supplied only by a clothes washer water system, provided the system does not require cutting of the existing plumbing.

If you have questions, please contact me at me at 799-3101 or email address chris.dacus@gmail.com.

Chris Dacus
President
Landscape Industry Council of Hawai'i
P. O. Box 22938, Honolulu, Hawai'i 96823-2938

Landscape Industry Council of Hawai'i

Hawaii's landscape industry has an economic impact of over \$520 million annually and full time employment of over 11,000 landscape professionals. Formed in 1986, LICH is a

statewide alliance representing Hawaii's landscape trade associations. LICH can be found online at www.landscapehawaii.org

lowen1-Kyli

From: mailinglist@capitol.hawaii.gov
Sent: Saturday, March 30, 2013 10:27 AM
To: waltestimony
Cc: chris.daCUS@GMAIL.COM
Subject: Submitted testimony for SB454 on Apr 1, 2013 10:30AM
Attachments: SB454_LICH_testimony 20130330.pdf

SB454

Submitted on: 3/30/2013

Testimony for WAL on Apr 1, 2013 10:30AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Allan Schildknecht	LANDSCAPE INDUSTRY COUNCIL OF HAWAII	Support	No

Comments: Currently, the State Department of Health (DOH) does not allow graywater usage unless granted a special permit from DOH. For generations, Hawaii families have conserved water by recycling washing machine water for watering plants. This graywater activity should be exempt from permits. Landscape Industry Council of Hawaii supports Senate Bill 454 SD 1 HD 1 and proposes amending the bill to exempt all permits for graywater systems in a one or two-family residential dwellings that are supplied only by a clothes washer water system, provided the system does not require cutting of the existing plumbing.

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov



LANDSCAPE INDUSTRY COUNCIL OF HAWAI'I

March 30, 2013

TESTIMONY FOR SENATE BILL N.O. 454 SD 1 HD 1 HOUSE COMMITTEE ON WATER & LAND

The Landscape Industry Council of Hawaii supports Senate Bill 454 SD 1 HD 1 Relating to Water Conservation by encouraging the use of graywater for irrigation purposes.

The Landscape Industry Council of Hawaii has led the state on Irrigation Water Conservation being the first industry sector to produce comprehensive water conservation measures. The LICH Irrigation Conservation BMPs can be found online at: www.landscapenhawaii.org/library/documents/lich_irrigation_conservation_bmps.pdf.

Graywater is wastewater generated from domestic activities such as laundry or bathing, which can be recycled on-site for uses such as landscape irrigation. Graywater usage is essential with the rising cost of water & sewer, increase in population & strains on water supply and the high cost of energy to transport water. It saves our precious water for human consumption. Graywater is actively being used in many parts of the United States, Europe and Asia.

Currently, the State Department of Health (DOH) does not allow graywater usage unless granted a special permit from DOH. For generations, Hawaii families have conserved water by recycling washing machine water for watering plants. This graywater activity should be exempt from permits. Landscape Industry Council of Hawaii supports Senate Bill 454 SD 1 HD 1 and proposes amending the bill to exempt all permits for graywater systems in a one or two-family residential dwellings that are supplied only by a clothes washer water system, provided the system does not require cutting of the existing plumbing.

If you have questions, please contact me at me at 799-3101 or email address chris.dacus@gmail.com.

Allan Schildknecht
Water Conservation Committee
Landscape Industry Council of Hawai'i
P. O. Box 22938, Honolulu, Hawai'i 96823-2938

Landscape Industry Council of Hawai'i

Hawaii's landscape industry has an economic impact of over \$520 million annually and full time employment of over 11,000 landscape professionals. Formed in 1986, LICH is a statewide alliance representing Hawaii's landscape trade associations. LICH can be found online at www.landscapenhawaii.org

Council Chair
Gladys C. Baisa

Vice-Chair
Robert Carroll

Council Members
Elle Cochran
Donald G. Couch, Jr.
Stacy Crivello
Don S. Guzman
G. Riki Hokama
Michael P. Victorino
Mike White



Director of Council Services
David M. Raatz, Jr., Esq.

COUNTY COUNCIL
COUNTY OF MAUI
200 S. HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.mauicounty.gov/council

March 28, 2013

TO: The Honorable Cindy Evans, Chair
House Committee on Water & Land

FROM: Gladys C. Baisa
Council Chair 

SUBJECT: **HEARING OF APRIL 1, 2013; TESTIMONY IN SUPPORT OF SB 454, SD1, HD1,
RELATING TO WATER CONSERVATION**

Thank you for the opportunity to testify in support of this important measure. The purpose of this measure is to encourage the Department of Health ("Department") and the counties to promote the widespread reuse of gray water, in accordance with the conditions set forth by the Department for the use of gray water for irrigation purposes.

The Maui County Council has not had the opportunity to take a formal position on this measure. Therefore, I am providing this testimony in my capacity as an individual member of the Maui County Council.

While I generally support the concept of this measure, I cannot fully support the measure for the following reasons:

1. Maui County has been subject to drought conditions for a number of years. The use of gray water for landscape irrigation promotes water conservation by lessening the need to use potable water, thereby increasing the municipal water supply. However, requiring all use of gray water to conform to the State Plumbing Code is costly and onerous and will discourage the use of gray water.
2. To encourage the reuse of gray water, gray water recycling programs need to be affordable and easy to implement.
3. I strongly encourage you to modify the measure so that conformance with the latest edition of the State Plumbing Code is not required. I believe such a modification will better encourage the use of gray water.

For the foregoing reasons, I cannot fully support this measure.

lowen1-Kyli

From: mailinglist@capitol.hawaii.gov
Sent: Sunday, March 31, 2013 7:50 PM
To: waltestimony
Cc: tabraham08@gmail.com
Subject: Submitted testimony for SB454 on Apr 1, 2013 10:30AM

SB454

Submitted on: 3/31/2013

Testimony for WAL on Apr 1, 2013 10:30AM in Conference Room 325

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

Comments: I support urgent passage of this bill

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

Do not reply to this email. This inbox is not monitored. For assistance please email webmaster@capitol.hawaii.gov

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES**

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ESTHER KIA'AINA
FIRST DEPUTY

WILLIAM M. TAM
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

**Testimony of
WILLIAM J. AILA, JR.
Chairperson**

**Before the House Committee on
WATER & LAND**

**Monday, April 1, 2013
10:30 AM
State Capitol, Conference Room 325**

**In consideration of
SENATE BILL 454, SENATE DRAFT 1, HOUSE DRAFT 1
RELATING TO WATER CONSERVATION**

The purpose of Senate Bill 454, Senate Draft1, House Draft 1 is to encourage the widespread use of gray water to irrigate lawns and gardens, which would help conserve potable water. The Department of Land and Natural Resources (Department) supports this measure and defers to the Department of Health (DOH) on matters related to public health and this measure's relationship to the DOH's *Guidelines for the Reuse of Gray Water, 2007*.

Using gray water for appropriate irrigation purposes is a suitable substitution for any potable water being used for this purpose. According to the Honolulu Board of Water Supply, about half of a household's water use is for outdoor irrigation. The Landscape Industry Council of Hawaii's publication, *Landscape Irrigation Conservation Best Management Practices, 2012*, recommends using non-potable water for irrigation. Allowing sensible and safe use of gray water for irrigation would help to decrease irrigation uses of potable water and conserve our precious fresh water resources.

Thank you for the opportunity to testify on this measure.