



DEPARTMENT OF THE NAVY

COMMANDER NAVY REGION HAWAII
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SENATE COMMITTEE ON AGRICULTURE AND THE ENVIRONMENT SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH

Testimony on Senate Bill 2774, Relating to the Red Hill Bulk Fuel Storage Facility

Hearing Date and Time: February 10, 2020 14:15

Testimony on behalf of Navy Region Hawaii

Aloha Chair Gabbard, Chair Baker, and Committee Members,

Thank you for the opportunity to speak on this important issue. The U.S. Navy and Defense Logistics Agency (Navy/DLA) operate in partnership with state and national agencies on Red Hill. The State Department of Health (DOH) and Environmental Protection Agency (EPA) regulate Navy/DLA and oversee the Red Hill facility and compliance with the 2015 Administrative Order on Consent (AOC). Regulators consistently inspect the Red Hill facility and find it meets or exceeds requirements. Tests performed every six months (twice the frequency required by the state) confirm the tanks are not leaking and that the “layers of protection” in place at Red Hill provide multiple ways of detecting a release in the highly unlikely event one should occur. Both Navy and Board of Water Supply (BWS) independent water quality reports show that Oahu’s drinking water is safe.

Navy/DLA will provide secondary containment at the Red Hill facility or defuel the tanks. The AOC requires Navy/DLA to submit a plan to install the Best Available Practicable Technology (BAPT) for the regulators to review, approve, and brief to Congress. Concurrent with AOC requirements, Navy/DLA will install the Best Available Practicable Technology by 2037. Although BAPT does not necessarily require secondary containment, by committing to secondary containment by 2045 Navy/DLA are exceeding the requirements of the AOC. Navy/DLA are committed to pursuing technologies that will provide secondary containment, or we will defuel the tanks in the 2045 timeframe. The Navy is working with industry and academia – the best and brightest minds here in Hawaii as well as on the mainland – to develop practical methods of improving the facility.

Can “secondary containment” be added to the tanks at the Facility now? The Tank Upgrade Alternatives (TUA) report submitted to regulators in December 2017 was a preliminary document that compared different options for upgrading the tanks at Red Hill. Although the report indicated a “tank within a tank” was possible, there are still large risks that require better understanding before proceeding with a project of this magnitude. Due

to the size and unique structure of the tanks, a practical and feasible technological solution is not readily available today. However, by proposing secondary containment or defueling the tanks by 2045, Navy/DLA have committed to providing secondary containment. This commitment is contained in the Tank Upgrade Alternatives and Release Detection Decision Document submitted to the regulators for their approval in September 2019.

Statistical studies assess risk. Navy/DLA contracted a Quantitative Risk and Vulnerability Assessment (QRVA). The authors of the risk assessment feel some readers and reviewers grossly misinterpreted their results. Our consultant's report provided incredible insight on what contributes to risk, and the Navy is working to address those items to continue to operate in manner protective of the environment. Regulators report that the facility continues to meet or exceed requirements and tests confirm the tanks are not leaking.

The Red Hill facility is of vital strategic importance to our Nation, to Hawaii, and to the U.S. Indo-Pacific Command. The United States Indo-Pacific Command's Major General Susan A. Davidson recently stated in her letter of 4 November 2019:

The Red Hill facility holds a significant percentage of petroleum war reserves required to defend national security interests in the Indo-Pacific region. As our strategic reserve, it supports all U.S. military forces throughout the theater, including those stationed in and transiting through Hawaii. It also supports the Hawaii Army and Air National Guard and is available to support civil authorities, should circumstances dictate. Its hardened, underground, cyber-protected, gravity-fed system to Joint Base Pearl Harbor-Hickam is unique, and there is no comparable U.S. owned facility anywhere from India to mainland USA.

Oahu's drinking water is safe to drink and Red Hill continues to operate safely with the improvements approved by the regulators through the AOC. This legally enforceable process provides enhanced oversight of the Red Hill facility with approval roles for DOH and EPA, and a notification requirement for the U.S. Congress.

In partnership with the stakeholders in Hawaii, the U.S. Navy is utilizing our combined resources and infrastructure to further leverage the great strategic importance of this state to the security and prosperity of our nation. Ours is a partnership that builds international cooperation, maintains peace by deterring conflict, and enables the maritime security needed to protect the vitally important free flow of commerce for Hawaii, and throughout the Indo-Asia-Pacific region.

Mahalo for the opportunity to testify today.



UNIVERSITY OF HAWAII SYSTEM

Legislative Testimony

Written Testimony Presented to the
Senate Committee Agriculture and Environment
Monday, February 10, 2020 at 2:15 p.m.

by

Vassilis L. Syrmos
Vice President for Research and Innovation
University of Hawai'i System

SB 2774 – RELATING TO UNDERGROUND STORAGE TANKS

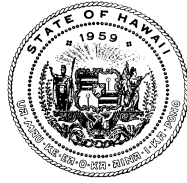
Chair Gabbard, Vice Chair Ruderman and Members of the Committee:

The University of Hawai'i (UH) understands and shares the concerns of the community surrounding the continued operation of the U.S. Navy's underground fuel storage tanks located at Red Hill. Although, UH respects and shares the community's concerns, it feels that the proposed legislation to shut down operations in 2028, before tangible scientific and technical recommendations can be made, is a short-term action on a situation that requires a more careful long-term, scientific-based strategy. The University of Hawai'i opposes SB 2774.

Currently, University of Hawai'i is working with the Naval Facilities Engineering Command (NAVFAC) and UH faculty serve as consultants to the State of Hawai'i Department of Health on the corrosion and groundwater issues facing the Red Hill fuel storage facility. The University of Hawai'i functions as an independent technical agent to both organizations.

The University of Hawai'i and NAVFAC have also formed a strategic partnership to look into current and future technologies in the areas of corrosion prevention, surface coatings and groundwater monitoring to address these concerns. The UH researchers involved have the technical expertise to monitor, inspect, repair and to develop future technology involving double-wall containment. Many of the faculty involved in this partnership are long-time residents of the potentially affected communities and/or O'ahu, and also share a vested interest in preserving the safety of the aquifer.

Thank you for the opportunity to provide testimony on this measure.



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

**Testimony in SUPPORT of SB2774
RELATING TO UNDERGROUND STORAGE TANKS**

SENATOR MIKE GABBARD, CHAIR
HOUSE/SENATE COMMITTEE ON AGRICULTURE AND ENVIRONMENT
Hearing Date: 2/10/2020 Room Number: 224

1 **Fiscal Implications:** Unknown.

2 **Department Testimony:** The Department supports the intent of this bill, to prohibit the
3 operation of large-capacity underground storage tank systems mauka of the underground
4 injection control line, and offers the following comments for consideration by this committee.

5 In July 2018, the Department completed a major update to chapter 11-280.1, Hawaii
6 Administrative Rules (HAR), which regulates all underground storage tanks (USTs) within the
7 State of Hawaii. Following the U.S. Environmental Protection Agency's 2015 rule updates to
8 the national UST program, this update included the expansion of many requirements in areas
9 such as operation and maintenance, spill and overfill prevention, release detection, and operator
10 training to field-constructed USTs, which typically have a capacity greater than 50,000 gallons.
11 The requirements in these rules, along with certain provisions of the Red Hill Bulk Fuel Storage
12 Facility Administrative Order on Consent (AOC; Department docket number 15 UST EA 01),
13 are intended to enhance environmental protection in the short-term, during continued operation
14 of field-constructed tanks that were installed before the existence of the UST regulations.

15 Since December 2018, the Department has been working to complete further
16 amendments to the HAR, primarily regarding requirements for field-constructed tanks. This
17 second rulemaking (currently in process) is intended to kick start the long-term planning required
18 to create new storage facilities to replace tank capacity so that the existing field-constructed
19 tanks can be decommissioned and permanently closed. Although the Department's October 2019

1 proposed rules would not directly require the closure of existing tanks—allowing the option for
2 the tanks to be upgraded with secondary containment—the Department considers construction of
3 new tanks and closure of existing tanks by the upgrade deadline a more favorable option.

4 The proposed statutory language in the bill appears to be largely based on the
5 Department’s December 2018 rule draft. Although the Department ultimately released a different
6 rule draft for public review in October 2019, we continued to work with the underground
7 injection control (UIC) line concept in drafts until August 2019 and offer drafting suggestions
8 below.

9 **Offered Amendments:**

10 1. All definitions should be placed in the existing §342L-1, HRS, “Definitions.”

11 2. The currently proposed definition “Underground injection control line” does not identify
12 the UIC line as a specific demarcation that exists independently in time and space but rather
13 refers to a legally indefinite description that is theoretically moveable at any time by the UIC
14 program. The Department recommends the following definition:

15 “UIC line” is the Underground Injection Control line represented by a dashed line on the
16 “State of Hawaii Department of Health Underground Injection Control Program” maps,
17 made effective July 6, 1984, and identified as follows:

- 18 (1) For the island of Hawaii, quadrangles H-1 to H-74;
- 19 (2) For the island of Kauai, quadrangles K-1 to K-11;
- 20 (3) For the island of Lanai, quadrangles L-North and L-South;
- 21 (4) For the island of Maui, quadrangles M-1 to M-17;
- 22 (5) For the island of Molokai, quadrangles M-East and M-West; and
- 23 (6) For the island of Oahu, quadrangles O-1 to O-15.

24 Adopting this definition in statute would mean that the siting prohibition could only be changed
25 by amending the statute.

1 3. In addition to fixing the definition of the UIC line, this eliminates the need for the
2 definitions “Underground injection control program” and “Underground source of drinking
3 water,” which should be deleted.

4 4. The following definition should be added:

5 “Mauka” means toward the mountains or the encircled underground source of drinking
6 water.

7 5. “100,000 gallons or more” (page 1 line 14) should be changed to “greater than 100,000
8 gallons.” This would:

9 a. Be consistent with the existing language in chapter 11-280.1, HAR [“greater than
10 50,000 gallons” and “less than or equal to 50,000 gallons”].

11 b. Allow for a system consisting of two 50,000 gallon tanks to be sited above the
12 UIC line. The largest factory-constructed USTs available for purchase in the U.S. have a
13 capacity of exactly 50,000 gallons. Gas stations within the State commonly have three
14 30,000 gallon storage tanks (system capacity 90,000 gallons) and a 100,000 system
15 capacity made up of two 50,000 gallon tanks would be a reasonable alternative design.

16

17 Thank you for the opportunity to testify on this measure.

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
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February 10, 2020

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Deputy Manager and Chief Engineer 

The Honorable Mike Gabbard, Chair
and Members
Committee on Agriculture and Environment
State Senate
Hawaii State Capitol, Room 224
415 South Beretania Street
Honolulu, Hawaii 96813

Dear Chair Gabbard and Members:

Subject: Senate Bill 2774: Relating to Underground Storage Tanks

The Honolulu Board of Water Supply (BWS) strongly supports SB 2774.

This bill proposes to amend Hawaii Revised Statutes (HRS) 342L to prohibit underground storage tank (UST) systems with capacities more than 100,000 gallons to operate mauka of the underground injection control (UIC) line beginning January 1, 2028.

The Hawaii Department of Health (DOH) has established a state UIC program in accordance with Hawaii Revised Statutes (HRS) 340E-2(e) and Hawaii Administrative Rules (HAR) Title 11 Chapter 23 to protect the quality of the state's underground sources of drinking water from pollution by subsurface disposal of fluids. Under this chapter, §11-23-04 and §11-23-05 defines the UIC line location around Oahu.

SB 2774 proposes using the UIC line to protect our underground sources of drinking water from UST systems greater than 100,000 gallons from operating above Oahu's sole source potable water aquifer. Data already shows petroleum contamination of the groundwater underneath a very large UST system that is presently located mauka of the UIC line. The continued presence of this facility at its present location poses an unacceptable risk to the aquifer.

Our drinking water aquifer is the only one of its kind and cannot be replaced. It is nature's gift that should be guaranteed legislative protection and future generations should receive in a condition that is equal to or better than what it is today.

The Honorable Mike Gabbard, Chair
and Members
February 10, 2020
Page 2

Thank you for the opportunity to testify.

Very truly yours,



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

SB-2774

Submitted on: 2/6/2020 9:04:59 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
David Mulinix	Testifying for Our Revolution Hawaii	Support	No

Comments:

On behalf of Our Revolution Hawaii's 5,000 members and supporters we mainly support HB 2774. While we support the intent of this bill, 2028 is not soon enough to shut down the Navy's fuel tanks at Red Hill that threaten the main drinking water supply for the majority of the people of Hawaii. Leaving these deteriorating fuel tanks to threaten our drinking water for eight more years is irresponsible and unacceptable.

SB-2774

Submitted on: 2/6/2020 8:44:58 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Christopher Dean	Testifying for Environmental Caucus of the Democratic Party of Hawaii	Support	No

Comments:

Please support this bill. I will only leave you with this one thought. Think of the gamble. Think of the risk. Once the aquifer is contaminated with petrochemicals, it can never be cleaned, that's it, poisoned for life. There is no price too high to protect our precious drinking water. It only takes one drop of oil to render a gallon of water impotable. Oh, on a side note, the U.S. military is responsible for this. The cost of remediation is therefore to be distributed among the entirety of the U.S. Population.



Chair Mike Gabbard
Vice Chair Russell Ruderman

Senate Committee on Agriculture & Environment

Monday, February 10, 2020
2:15 PM

**TESTIMONY IN STRONG SUPPORT OF SB2774 RELATING TO UNDERGROUND
STORAGE TANKS**

Aloha Chair Gabbard, Vice Chair Ruderman, Members of the Senate Committee on Agriculture & Environment,

My name is Jun Shin. I am a Sophomore at the University of Hawai‘i at Mānoa. I currently serve as the Environmental Justice Action Committee Chair for the Young Progressives Demanding Action (YPDA). YPDA advocates for public policies that reflect the values of young people throughout the State of Hawai‘i. YPDA is in **Strong Support** of **SB2774**, relating to underground storage tanks. This measure would prohibit, beginning 1/1/2028, a person to operate an underground storage system with a capacity of 100,000 gallons or more, mauka of the underground injection control line.

Water is a natural resource that belongs to the benefit of all under our state laws. Water is also a central component of many of our policy initiatives as a State, from diversifying our agriculture to growing our own food. However we cannot achieve these policy goals when we can't even ensure that basic access to our drinking water is secure.

The ancient underground fuel tanks at Red Hill are a threat to our water resources. Red Hill's aquifer impacts so many different communities on O'ahu. Not just residents, but visitors who are a big part of our economy. This also no doubt impacts the water resources of members of the United States Navy and their families who are stationed here also, the Navy being a major stakeholder on this issue.

Unfortunately, the Navy has made moves towards the cheapest option that maintains the failing status quo for these tanks, which includes extension of the timeline in which the fuel tanks need to be

upgraded or retired to 2045. Even our Department of Health has also done work in expanding its deadline for upgrading field-constructed storage tanks to the very late date of 2045. Concerning as this facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up.

Hawai‘i contends with one of the highest costs of living. Working families are living paycheck to paycheck. The Board of Water Supply points out very clearly on their website in the frequently asked questions on Red Hill that if the old tanks are affected by a natural disaster like an earthquake and the fuel affects the water, the customers of the Board of Water Supply will have to pay out of their own pockets to fix the contaminated water. This is not even addressing the health issues that 70+ year old tanks with 250 million gallons of fuel could bring. We cannot wait and ask for O‘ahu’s taxpayers to pick up the pieces when we have an opportunity to address it now.

This is why this bill is so important. By making sure our laws are changed to reflect this very real crisis by saying that in 2028, no one can operate an underground storage tank system that has a capacity of 100,000 gallons or more, above the underground injection control lines, the Red Hill tanks would need to be retired. An actual set of meaningful steps can take place. The fuel relocated away from our drinking water into a location that will **not** hurt the environment, hurt nearby communities, and take into consideration the effects climate change will have on the island, notably sea level rise and natural resources. Future generations are counting on your leadership here and now. Our kids and their kids should be able to enjoy our resources as we have been able to. Please join us in taking this stand.

Young Progressives Demanding Action is in **Strong Support** of **SB2774**. Please pass this bill through your committee.

Mahalo for the opportunity to testify,

Jun Shin,
Environmental Justice Action Committee Chair
Young Progressives Demanding Action (YPDA)
P.O. Box 11105
Honolulu, HI 96828
Cell: 808-255-6663
Email: junshinbusiness729@gmail.com
CC: action@ypdahawaii.org

SB-2774

Submitted on: 2/7/2020 3:35:34 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dyson Chee	Testifying for Hawaii Youth Climate Coalition	Support	No

Comments:



Pono Hawai'i Initiative

Josh Frost - President • Patrick Shea - Treasurer • Kristin Hamada
Nelson Ho • Summer Starr

Monday, February 10, 2020

Relating to Underground Storage Tanks
Testifying in Support

Aloha Chair and members of the committee,

The Pono Hawai'i Initiative (PHI) **supports SB2774 Relating to Underground Storage Tanks**, which prohibits, beginning 1/1/2028, a person to operate an underground storage system with a capacity of 100,000 gallons or more, mauka of the underground injection control line.

Currently Hawaii's groundwater is at risk of being contaminated and we need to do what we can to protect it and our community. These large storage systems need to be regulated no matter who owns or operates them. It is the legislature's kuleana to protect Hawaii's water.

For all these reasons, we urge you to move this bill forward.

Mahalo for the opportunity,
Gary Hooser
Executive Director
Pono Hawai'i Initiative

SB-2774

Submitted on: 2/8/2020 9:08:57 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jalem Correia	Testifying for YPDA	Support	No

Comments:



KE ONE O KĀKUHIIHEWA

O'ahu Council of the
Association of Hawaiian Civic Clubs

COMITTEE ON AGRICULTURE AND THE ENVIRONMENT

MONDAY FEBRUARY 10, 2030

CONFERENCE ROOM 224

STATE CAPITOL

415 South Beretania Street

BENTON KEALII PANG, PH.D.,
HAWAIIAN CIVIC CLUB OF
HONOLULU
PELEKIKENA

JACOB KA'ŌMAKAOKALĀ AKI-
KING KAMEHAMEHA HCC
HOPE PELEKIKENA

GEORGIANA NAVARRO-
MĀKAHA HCC
HOPE PELEKIKENA 'ELUA

ALBERTA LOW-PEARL HARBOR
HCC
PU'UKŪ

ROTH PUAHALA -KING
KAMEHAMEHA HCC
PELEKIKENA IHO NEI

TERI LOO-KO'OLAUPOKO HCC
KĀKAU 'ŌLELO

CHRISTINE "CHRISSY" ANJO-
PEARL HARBOR HCC
HOLE KĀKAU 'ŌLELO

'AHAHUI SIWILA HAWAII' O
KĀPOLEI
LANCE HOLDEN

ALI'I PAUHI HCC
KEHAULANI LUM

'EWA-PU'ULO A HCC
MARLEEN KAUI SERRAO

HCC OF HONOLULU
ANITA NAONE

KAILUA HCC
MAPUANA DE SILVA

KALIHI-PĀLAMA HCC
KAIMO MUHLESTEIN

KING KAMEHAMEHA HCC
LETANI PELTIER

KO'OLAULO A HCC
RANAE "TESSIE"
FONOIMOANA

KO'OLAUPOKO HCC
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LUALUALEI HCC
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MĀKAHA HCC
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FABORITO

MAUNALUA HCC
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PEARL HARBOR HCC
ANTOINETTE LEE

PRINCE KŪHIŌ HCC
A. MAKANA PARIS

PRINCESS KAI'ULANI HCC
RUSTY RODENHURST

QUEEN EMMA HCC
RAWLETTE P. KRAUT

HCC OF WĀHIAWA
MARIE "MĀLIA" DOO

HCC OF WAIALUA
MAKALAPUA CASSON-
FISHER

WAI'ANA E HCC
CYNTHIA ENRIQUEZ

WAIKIKI HCC
L. PI'IKEA TOMCZYK

HCC OF WAIMĀNALO
KALANI KALIMA

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

My name is Benton Kealii Pang and I am the president for the O'ahu Council of the Association of Hawaiian Civic Clubs. I am writing in **strong support** of **SB2774**, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

All 24 of the Council's Hawaiian civic clubs utilize the precious water resources of the island of O'ahu, we have been concerned that the underground storage tanks at the U.S. Navy's (USN) Red Hill storage facility remain in operation directly above a major water source.

Since 1992, the Department of Health (DOH) has failed to enact rules requiring the upgrading of existing underground storage tanks and even exempted the Red Hill underground storage tanks (UST) in HAR 11-281-01(b)(2) where none is authorized. This left the antiquated, leaky UST insufficiently regulated for years. In 2014, the Red Hill Fuel Storage Facility leaked about 27,000 gallons of jet fuel into the ground. This resulted in groundwater contamination in an area below the UST and petroleum related compounds have been detected in groundwater monitoring wells.

In September of 2015, the O'ahu Council and its member clubs adopted a resolution entitled "Calling Upon the US Navy Expedite Corrective Actions to the Red Hill Bulk Storage Facility." In November of the same year, the Association of Hawaiian Civic Clubs supported our resolution at its annual convention and passed **Resolution 15-10: Requesting the U.S. Navy Expedite Corrective Actions To The Red Hill Bulk Fuel Storage Facility and Safeguard O'ahu's Drinking Water. This resolution urged the USN to relocate the UST, immediately remediate all areas where fuel has leaked in the past 60 years, conduct regular inspections, and immediately remediate future fuel leaks.**

On February 22, 2018, Circuit Judge Jeffrey P. Crabtree ruled in favor of the Sierra Club in its lawsuit against the DO and Director Virginia Pressler (*Civ No. 17-1-1350-08 JPC*). The court ruled current DOH administrative rules, which exempted the Red Hill UST do not comply with the legislation approved by Legislature in 1992. The 1992 law requires replacement or upgrade of then-existing tank systems by December 22, 1998, to prevent releases over the operating life of the UST.

The cultural and religious significance of our island’s fresh water supply to the Hawaiian people is well known. In centuries past, when the islands were first inhabited by our people, we were able to sustain ourselves and survive despite being the most remote group of islands in the world. ***E mālama i ka wai***, *care for the water*, was among our most important cultural values, containing within these words the ***kūleana*** – *responsibility* – of our people to protect this resource so critical to our survival. To be *wealthy* was to be ***waiwai***, to have an abundance of water resources. The ***kānāwai*** became the *law* of the land for our people, and water resources were strictly safeguarded by our ***kūpuna kahiko***.

Our water resources also had religious significance, and to ***hi’uwai*** was to engage in a fresh-water cleansing, among the many ceremonies in which water played a key part. From ancient times even until today, Hawaiian ceremonies, blessings, and practices utilize our island’s fresh water in our religious practices.

The fresh water resources underlying the Red Hill Bulk Fuel Storage Facility are, indeed, important to Native Hawaiians for cultural, religious, and practical purposes – we cannot survive, we cannot live without good quality fresh drinking water.

Ke One O Kakūhihewa is a native Hawaiian council made up of 24 civic clubs on the island of O’ahu. Our oldest member, Hawaiian Civic Club of Honolulu was established by Prince Jonah Kūhiō Kalaniana’ole on December 7, 1918.

Sincerely,



Benton Kealii Pang, Ph.D.





SIERRA CLUB OF HAWAI'I

SENATE COMMITTEE ON AGRICULTURE AND ENVIRONMENT

February 10, 2020 2:15 PM Room 225

In **SUPPORT** of **SB2774**: Relating to Underground Storage Tanks

Aloha Chair Gabbard, Vice Chair Ruderman, and members of the committee,

On behalf of our 20,000 members and supporters, the Sierra Club of Hawai'i **supports SB2774** to prevent large underground storage tanks from contaminating drinking water resources. This bill would shut down the Red Hill Bulk Fuel Storage Tank Facility and require relocation of the Navy's fuel away from O'ahu's drinking water by 2028. We strongly support this measure to prevent further contamination of the island's primary groundwater supply.

The Navy's Red Hill Bulk Fuel Storage Facility Threatens Our Water Supply

The Navy's Red Hill Bulk Fuel Storage Facility threatens the Southern O'ahu Basal Aquifer. The Red Hill Bulk Fuel Storage Facility holds up to 250 million gallons of fuel in massive underground fuel storage tanks. These tanks are located one hundred feet above the primary aquifer serving 400,000 residents from Hālawā to Hawai'i Kai. In 1987, the U.S. Environmental Protection Agency designated the Southern O'ahu Basal Aquifer as the "principal source of drinking water" that "if contaminated, would create a significant hazard to public health."

- A. We know that there have been leaks from these tanks.** Navy documents have revealed that there have been more than thirty leaks from the facility, the largest leak of 27,000 gallons occurring in 2014 after routine maintenance. Soil samples taken from beneath 19 of 20 of the tanks show petroleum-based staining. Petroleum-based chemicals and carcinogens like naphthalene and benzene have been repeatedly detected in nearby groundwater monitoring wells.
- B. We know that the tanks are corroding.** The December 2018 Destructive Analysis of 10 Steel Coupons Removed from Red Hill Fuel Storage Tank #14 shows that the tank liner is corroding. All samples of steel liner tested showed some presence of corrosion, with the thinnest sample measuring 49% of the original ¼ inch liner. Additionally, corrosion on the backside of the tank liner can not be visually inspected or accessed for repairs.
- C. We know that these tanks will continue to threaten our water.** The 2019 Quantitative Risk and Vulnerability Assessment determined the tanks currently have a **27.6%**

percent chance of leaking between 1,000 and 30,000 gallons each year. This assessment also predicted the Red Hill Facility will **experience chronic releases of 5,803 gallons each year.** Because these tanks are buried in Red Hill, once the tanks leak none of this fuel can be cleaned up.

The Department of Health's Legal Responsibilities

The Department of Health is constitutionally and statutorily obligated to protect our drinking water from contamination.

- A. **The Department of Health's Statutory Obligations.** The Department of Health is the state agency with the primary responsibility to protect water quality. See e.g. HRS § 174C-66, 340E-2, 342-1.1, 342D-4, and 342D-50.

In 1989, the legislature codified HRS chapter 342L, the underground storage tank law, to give the Department of Health the tools it needed to protect our water supply. In 1992, the legislature amended HRS §342L-32 to require the Department of Health to adopt rules to ensure that pre-existing underground storage tanks were upgraded. The legislature specifically added language requiring that existing tanks be upgraded within six years: **“Existing underground storage tanks or existing tank systems shall be replaced or upgraded not later than December 22, 1998, to prevent releases for their operating life.”** The Department of Health was required to enact rules for upgrading all underground storage tanks, including existing ones. These standards must ensure that the tank and tank systems are “designed, constructed, installed, **upgraded**, maintained, repaired, and operated **to prevent releases** of the stored regulated substances **for the operational life of the tank or tank system.**” HRS §342L-32(b)(1).

- B. **The Department of Health's Constitutional Obligation.** The Department of Health is constitutionally obligated to protect our drinking water from contamination. The mandate to protect our water is articulated repeatedly in our Hawai'i State Constitution Article IX section 1, and Article XI sections 1 and 7.

The Hawai'i Supreme Court has consistently held that the public trust doctrine obligates the state, including the Department of Health, to protect the purity of our water. The public trust doctrine applies to all water resources without exception or distinction. The state water resources trust thus embodies a dual mandate of 1) protection and 2) maximum reasonable and beneficial use. The public trust is, therefore, the duty and authority to maintain the purity and flow of our waters for future generations and to assure that the waters of our land are put to reasonable and beneficial uses.

The Current Plan Risks O‘ahu’s Water

Following the 2014 leak of 27,000 gallons, the Navy, Defense Logistics Agency, U.S. Environmental Protection Agency, and Hawai‘i Department of Health agreed to a 22-year plan to address the Red Hill tanks. Five years into the agency agreement, the Navy released its Tank Upgrade Alternatives Decision for Red Hill. Out of all the tank upgrade options considered, the Navy is recommending approval of option 1A-Reconstruction of Existing Tank using Current Clean Inspect Repair Program. This is the **least protective and least expensive option**, which retains the original, 75 year old single-walled steel tank liner with minimal upgrades to prevent, detect, and mitigate fuel releases. Additionally, the Navy’s plan contains a commitment to “double-wall equivalent secondary containment” or relocation of the fuel “around 2045.” This **proposes to extend the deadline for upgrading the tanks for an additional 7 years, utilizing some unknown future technology**. This proposed timeline and solution does not give us confidence that the Navy’s plan will be sufficient in addressing the immediate, ongoing risk Red Hill poses to O‘ahu’s drinking water.

Relocation is the Only Long-term Solution

Due to the location of these tanks 100 feet above our water, we should not allow these massive, leaky tanks to continue operating after 75 years—even with upgrades. It is time to start planning now for the relocation of the Navy’s fuel. The funding that is currently used to maintain the existing Red Hill Facility should be reallocated towards building a new storage tank system that does not jeopardize our drinking water. SB2774 provides a clear end date to the operation of these massive, leaky tanks and provides the justification needed for the Navy to begin the federal funding procurement process for relocation.

Thank you very much for this opportunity to provide testimony in support of SB2774.

Mahalo,



Jodi Malinoski, Policy Advocate

SB-2774

Submitted on: 2/9/2020 10:00:33 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jeri Di Pietro	Testifying for Hawai'i SEED	Support	No

Comments:

Aloha Chair Gabbard, Vice Chair Ruderman, and Members of the Committee,

We are in strong support of SB2774, prohibiting the continued underground storage of fuel at U.S. Navy's Red Hill facility.

There is great concern with these tanks in operation are directly above a critical water source. The Red Hill tanks of a history of leaking fuel into the environment. It is a major threat to O`ahu's drinking water security.

Please pass this important bill. Thank you for the opportunity to testify.

Jeri Di Pietro



SB 2774, RELATING TO UNDERGROUND STORAGE TANKS

FEBRUARY 10, 2020 · SENATE AGRICULTURE AND ENVIRONMENT COMMITTEE · CHAIR SEN. MIKE GABBARD

POSITION: Support.

RATIONALE: IMUAlliance supports SB 2774, relating to underground storage tanks, which prohibits, beginning 1/1/2028, a person to operate an underground storage system with a capacity of 100,000 gallons or more, mauka of the underground injection control line.

Hawai'i's water resources are under siege. At the same time, enforcement of the State Water Code is spotty, at best. Degradation of the fuel storage system at Red Hill is a prime example of our failure to protect our water supply. For over 70 years, the U.S. Navy has stored 187 million gallons of fuel inside the Red Hill ridge, just 100 feet above O'ahu's main drinking water supply.

In that time, the facility has leaked more than 30 times, with the last known leak occurring in January 2014, when 27,000 gallons of fuel were released from a single tank. That leak resulted in a 20-year agreement between the U.S. Navy, Environmental Protection Agency, Defense Logistics Agency, and the Hawai'i Department of Health to study, monitor, and consider improvements to the storage facility. **Since 1934, the Red Hill fuel tanks have leaked at least 200,000 gallons of fuel, endangering our water supply.** The Navy's own studies show that the Red Hill tanks could be leaking 5,800 gallons annually.

Water is life. It's time to shut these tanks down and relocate their storage someplace safe.

SB-2774

Submitted on: 2/9/2020 2:04:47 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
John L. Reppun	Testifying for KEY Project	Support	No

Comments:

Committee of Agriculture and Environment

Aloha Chair Gabbard, Vice Chair Ruderman & Committee Members:

I urge you to support the subject measure Relating to Underground Storage Tanks. For the past three years, representing KEY Project (Nonprofit Community Center - Windward O'ahu), I have been privileged to be a participant in the Honolulu Board of Water Supply's Stakeholders Advisory Group - working on long-range planning, discussion of rate structure, attention to the details of continuing maintenance and capital improvements involved in developing, distributing water of excellent quality for all island users on Oahu. The Advisory group briefings included both site visits and detailed information about all water sources on the island, including those threatened by the Navy's aged fuel storage facilities. It is beyond time to address this issue in a way that ensures complete protection of O'ahu's primary source of water. Failure to do so, with removal and relocation would be devastating.

I urge this committee to take positive action and move this measure forward this session.

Mahalo, John L. Reppun

Windward farmer, community advocate with a lifetime background of positive civic engagement.

jreppun@keyproject.org; (cell) 277-8686

SB-2774

Submitted on: 2/9/2020 2:49:15 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
William Bekemeier	Testifying for Faith Action for Community Equity	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

William Bekemeier



**Testimony to the Senate Committee on Agriculture and Environment
Monday, February 10, 2020 at 2:15 P.M.
Conference Room 224, State Capitol**

LATE

RE: SB 2774, RELATING TO UNDERGROUND STORAGE TANKS

Chair Gabbard, Vice Chair Ruderman and Members of the Committee:

The Chamber of Commerce Hawaii ("The Chamber") is **opposed to** SB 2774, which prohibits, beginning January 1, 2028, a person to operate an underground storage system with a capacity of 100,000 gallons or more, mauka of the underground injection control line.

The Chamber is Hawaii's leading statewide business advocacy organization, representing about 2,000+ businesses. Approximately 80% of our members are small businesses with less than 20 employees. As the "Voice of Business" in Hawaii, the organization works on behalf of members and the entire business community to improve the state's economic climate and to foster positive action on issues of common concern.

Additionally, the Hawaii Military Affairs Council (MAC) was established in 1985 as part of the Chamber, and advocates on behalf of Hawaii's military, and is comprised of business leaders and retired U.S. flag and general officers. The MAC works to support Hawaii's location as a strategic U.S. headquarters in the Indo-Asia-Pacific region.

In recognizing how critical the U.S. military presence is to Hawaii's economy, the Chamber underscores that the Red Hill Bulk Fuel Storage Facility is vital to military readiness as it supports all Hawaii-based military actions and a significant share of many more in the Indo-Asia-Pacific region. The military's ability to remain "ready to respond" is essential for preserving the military's presence in the State and protecting a vital driver of our State's economy. Fuel at Red Hill is also available for civilian use during times of emergencies, such as a natural disaster. It can be utilized by shipping companies to move cargo between the islands, or even by commercial air carriers to move residents or visitors.

As a result of the January 2014 fuel leak, the Navy, U.S. Environmental Protection Agency, and the Hawaii Department of Health entered a binding Administrative Order on Consent (AOC). The AOC convened state and federal experts to research and evaluate structural upgrades to the existing tanks at Red Hill and help to determine a long-term solution. The Navy's Tank Upgrade Alternatives Report summarized dozens of technologies that were considered to improve the storage tanks and provided detailed conceptual design information for six upgrade options being considered. Additional monitoring is in effect, as well as the integration of additional technologies to help ensure the integrity of the system. We should allow the AOC to finalize its recommendations before any further action is taken. In addition, the State Department of Health remains in discussions with the Navy about the long-term



future of Red Hill and other alternatives. Those discussions are also ongoing and should be encouraged.

Thank you for the opportunity to provide comments on SB 2775.



Monday, February 10, 2020

LATE

**Senate Bill 2774
Testifying in Strong Support**

Aloha Chair Gabbard, Vice Chair Ruderman and Members of the Committee on Agriculture and Environment:

The Human Environmental Impacts Committee, Environmental Caucus of the Democratic Party of Hawai'i stands in **strong support of SB2774**. This measure provides, beginning in January 1, 2028, for the prohibition of all underground storage tank systems with a capacity of 100,000 gallons or more from operating mauka of the underground injection control line.

In 2018, the O`ahu County Democrats, out of dire concern over the risk to the Moanalua-Waimalu Aquifer, our major drinking water source for Moanalua to Hawai'i Kai, affecting hundreds of thousands of residents, businesses and visitors of the Honolulu District, adopted the following resolution:

OC 2018-11. Urging the United States Navy to retro fit its twenty jet fuel tanks or relocate them to a location away from the aquifer

Whereas, A Navy analysis may underestimate the contamination potential of leaks from giant fuel tanks from Red Hill; and

Whereas, The Navy has 20 underground fuel storage tanks dating to World War II in Red Hill above Pearl Harbor; and

Whereas, The tanks sit on an aquifer that supplies a quarter of the water consumed in urban Honolulu; and

Whereas, More than 27,000 gallons of jet fuel leaked from one of the tanks in 2014; and

Whereas, The Navy's evaluation of the potential risks appears to be skewed toward concluding that millions of gallons of jet fuel could be released without damaging the groundwater; and

Whereas, The Navy cannot locate the leaked fuel or accurately assess the risk to our groundwater; and

Whereas, Instead, the Navy is providing models to produce its preferred outcomes; and

Whereas, The Navy and regulatory agencies are working on a 20-year-plan to reduce the risk of leaks and fuel contamination from the tanks; and

Whereas, The plan includes new tank designs and potentially storing the fuel someplace other than Red Hill; and therefore, be it

Resolved, That the O‘ahu County Democrats of the Democratic Party of Hawai‘i urge the United States Navy to install double-walled tanks at Red Hill within five years or move the tanks if the Navy is unable to retrofit the twenty tanks into double-walled tanks within the time prescribed; and be it further

Resolved, That the O‘ahu County Demoiocrats of the Democratic Party of Hawai‘i urge the Hawai‘i State Legislature, and the U.S. Congress to mandate that the Navy retrofit the twenty Red Hill tanks to double-walled tanks within five years and or relocate the twenty tanks to a location where the risk of leakage into the aquifer and groundwater is greatly minimized; and be it

Ordered, That copies of this resolution be transmitted to the United States Navy, members of the Hawai‘i Congressional Delegation, the Governor of the State of Hawai‘i, the Lt. Governor of the State of Hawai‘i, Hawai‘i Legislators who are members of the Democratic Party; the Mayor of the City and County of Honolulu; and Members of the City Council of the County of Honolulu; and the 2018 convention resolutions committee of the Democratic Party of Hawai‘i.

For these reasons, the Human Environmental Impacts Committee supports the passage of this measure which, beginning in January 1, 2028, would prohibit all underground storage tank systems with the capacity of 100,000 gallons or more from operating mauka of the underground injection control line. This measure would provide the ultimate assurances that the people of the State of Hawai‘i, particularly those residing in, working in, and visiting the County of Honolulu can feel safe and risk-free of petroleum contamination in its major drinking water aquifer for generations to come.

Mahalo for the opportunity to testify,

/s/ Melodie Aduja
Chair, Human Environmental Impacts Committee
Environmental Caucus
Democratic Party of Hawai‘i

SB-2774

Submitted on: 2/10/2020 8:28:28 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Melissa L Yee	Testifying for Seeds of Truth	Support	No

Comments:

My name is Dr. Melissa Yee and I am a producer at Olelo Community TV since 2009 and member of the organization PureWaterHawaii.org. It is of great concern to me and residents of Oahu that our drinking water has been put in peril by the 2014 oil leaks at Red Hill and 30 other known leaks from the Halawa aquifer, which supplies 500, 000 residents and visitors in Waikiki and Honolulu. Water, being one of Hawaii's greatest assets, is filtered through natural occurring volcanic rock aquifers and may take 25 years to reach our tap for consumption. The Navy and the Department of Health have set an arbitrary date of 2045 to complete repairs on the 20 tanks only 100 feet above this aquifer, which delays responsibility for the safety of drinking water until a time when many of us will no longer be on this planet.

I strongly support closing the Red Hill facility and moving the tanks downhill to a safer location such as the military bases or Ford Island. Relocating the tanks to another area of Halawa-Red Hill is unacceptable. As more people move to Oahu and visitors continue to stream to Hawaii to experience its natural resources, the quality of drinking water inevitably deteriorates. With the continuing threat of the presence of Roundup weedkiller and residuals of chemicals from plantation use for the last 70 years including DDT, dieldrin, chlorpyrofos and fluoride, the purity of the water becomes increasingly taxed.

It is in the hands of the Board of Water Supply at the behest of the State Legislature and City Council to keep the drinking water safe. The Board of Water Supply is very aware of the potential crisis or disaster that has occurred at Red Hill, and here we are 6 years later still searching for solutions. Just as the Dept of Transportation has decided to shut down Dillingham Airfield after several well publicized helicopter crash deaths, so should the State Legislature and the Department of Health take action to close the Red Hill facility for the protection of the people of Hawaii. We can no longer be beholden to the military to continue its destruction of the 'aina in the name of Homeland Security and employment for residents who put their lives at long term risk through exposure to radiation, fluoridated water, and uranium pollution coming from military bases.

Please close the Red Hill facility and find better locations for fuel storage.

Respectfully submitted,

Dr. Melissa Yee

PureWaterHawaii.org

Feb 10, 2020



HAWAII APPLESEED
CENTER FOR LAW & ECONOMIC JUSTICE

Testimony of the Hawai'i Appleseed Center for Law and Economic Justice
In Support of SB 2774 -- Relating to Underground Storage Tanks
Senate Committee on Agriculture and the Environment
Monday, February 10, 2020, 2:15 PM, in conference room 224

Dear Chair Gabbard, Vice Chair Ruderman, and members of the Committee:

Thank you for the opportunity to provide testimony in **SUPPORT of SB 2774**, which would shut down the Red Hill fuel storage facility and relocate the fuel away from O'ahu's primary drinking water resource.

While environmental issues affect all residents of O'ahu, our low-income neighbors are often the most adversely affected by them. In many cases, polluting facilities, such as power plants or trash dumps, are located in their communities. We have learned from places like Flint and Newark that low-income communities also tend to suffer most from poor water quality.

The location of the Red Hill fuel tanks above our primary source of drinking water should alarm everyone who uses tap water, but again, it would be hardest for low-income families to cope with the contamination of our water that would result from a major fuel leak. For example, they are the least able to afford water filtration systems or purchase bottled water.

How would you feel if you knew that your home had a higher than 1 in 4 chance of flooding every year? That's how we all should feel about Red Hill, since a recent Navy study found that the tanks currently have a 27.6 percent chance of leaking 30,000 gallons of fuel every year. This level of risk should be considered unacceptable by our government agencies and leaders.

These tanks already have leaked over 200,000 gallons since their construction over 75 years ago. The most recent major leak was of 27,000 gallons of fuel in 2014. The Navy also has stated that they expect chronic fuel leaks of 5,800 gallons every year.

That is why we support SB 2774's prohibition of underground storage tanks larger than 100,000 gallons to be operated above the boundary line where our drinking water aquifer begins. This would ensure that the Red Hill tanks would be relocated away from the aquifer, which is the only certain way to guarantee the safety of O'ahu's drinking water.

We appreciate your consideration of this testimony and urge you to pass SB 2774.

Hawai'i Appleseed is committed to a more socially just Hawai'i, where everyone has genuine opportunities to achieve economic security and fulfill their potential. We change systems that perpetuate inequality and injustice through policy development, advocacy, and coalition building.

SB-2774

Submitted on: 2/5/2020 4:17:11 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Randy Ching	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice Chair Ruderman, and members of the committee,

I am in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

I am very concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up.

More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. This is a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Please pass SB2774. Thank you for the opportunity to testify on this important matter.

Randy Ching

Honolulu

SB-2774

Submitted on: 1/30/2020 9:14:56 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Benton Kealii Pang, Ph.D.	Individual	Support	No

Comments:

I support SB2774.

SB-2774

Submitted on: 2/5/2020 4:18:59 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Lacques	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/5/2020 4:34:00 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ken Stover	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/5/2020 4:38:37 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

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

Comments:

Chair Gabbard, Vice chair Ruderman, and members of the committee,

I strongly support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

We all need drinking water. The underground storage tanks at the U.S. Navy's Red Hill storage facility are a threat directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has evidently leaked over 200,000 gallons since construction, most recently 27,000 gallons of fuel in 2014, which was ever located or cleaned up. Of paramount concern is the Navy's own recent study showing that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year. They expect chronic fuel leaks of 5,800 gallons every year. Immediate action is needed. There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources. This bill gives them time to relocate.

Thank you for the opportunity to testify on this important matter.

SB-2774

Submitted on: 2/5/2020 4:42:44 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jody Smith	Individual	Support	No

Comments:

Residents who live on an island that relies on a aquifer lens of freshwater for the bulk of their drinking water can not afford to do anything to imperil water quality. The Navy's proposal to continue Storing oil in old damaged tanks does not pass the light of day test -- no one could logically support this suggestion as being in the best interests of Oahu residents. I support shutting down Red Hill tanks. Thank you for showing leadership to protect our islands water resources.

SB-2774

Submitted on: 2/5/2020 4:44:54 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Daniel Grantham	Individual	Support	No

Comments:

I **SUPPORT** [SB2774](#), which shuts down the Red Hill facility and relocates the fuel away from O'ahu's drinking water.

SB-2774

Submitted on: 2/5/2020 5:05:42 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ann S Freed	Individual	Support	No

Comments:

Aloha Chair and members,

I strongly support this bill. The Navy continues to stonewall on this issue that continues to threaten our precious and fragile water supply.

Ann S. Freed

Mililani Resident and community activist

SB-2774

Submitted on: 2/5/2020 5:25:22 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Caleb Merendino	Individual	Oppose	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

CM

SB-2774

Submitted on: 2/5/2020 5:43:45 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tom Wallace	Individual	Support	No

Comments:

Please support. Our groundwater is so important!

SB-2774

Submitted on: 2/5/2020 6:13:22 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
cheryl B.	Individual	Support	No

Comments:

HOLD the NAVY accountable. This is one of the impacts we're talking about that we need to assess. THEY need to do what is right.

SB-2774

Submitted on: 2/5/2020 6:21:27 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Greg Puppione	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in very strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill. The Navy receives many benefits from our island, and has access to some of the best land in our island chain. They should be forced to be better members of our community, and respect the wishes of the people.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources. Thank you for supporting this measure! Aloha,

Greg Puppione

SB-2774

Submitted on: 2/5/2020 7:12:11 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tony Radmilovich	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

*Sincerely,
Tony Radmilovich*

SB-2774

Submitted on: 2/5/2020 7:13:50 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joanna Maile Pokipala	Individual	Support	No

Comments:

I support SB2774

SB-2774

Submitted on: 2/5/2020 8:31:52 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

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

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Dr. John and Debra Nix, Kihei

SB-2774

Submitted on: 2/5/2020 9:03:38 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Momi Ventura	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/5/2020 9:05:45 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Yvonne Geesey	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/5/2020 9:29:28 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
lynne matusow	Individual	Support	No

Comments:

This bill will help maintain the safety of our water supply.

SB-2774

Submitted on: 2/5/2020 10:46:52 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dylan Ramos	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice Chair Ruderman, and respected Members of the Committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Mahalo,

Dylan Ramos

Kaimuki, SD 9

SB-2774

Submitted on: 2/5/2020 10:54:00 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
J Riverstone	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/6/2020 7:06:27 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Michael Donato	Individual	Support	No

Comments:

I support this bill. The tanks must be relocated in order to protect our water's future.

SB-2774

Submitted on: 2/6/2020 3:48:21 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Nanea Lo	Individual	Support	No

Comments:

Hello Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

me ke aloha 'Ä• ina,

Nanea Lo

SB-2774

Submitted on: 2/6/2020 8:29:39 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lynette Williams	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I was born and raised in Kalihi, and currently reside in Kaneohe. I strongly support SB2774. The fuel tanks at Red Hill pose an unacceptable and terrifying level of risk to our irreplaceable supply of drinking water. The underground aquifer was created over many eons, and is impossible to move or replace. However, the corroding fuel tanks can and should be retired, and the fuel relocated away from our water resources. Although the relocation cost will be enormous, it will certainly be less than the ultimate economic cost of an impossible and never-ending clean up that would result if our groundwater became contaminated. More importantly, any contamination would be devastating to the health of our citizens. That scenario is horrible to contemplate, and still avoidable, if you take action today.

Thank you for reading my comments, and I hope that responsible and swift action is taken on this critical issue. Please protect our drinking water.

Mahalo,

Lynette A Williams

44-126 Kauinohea PI

Kaneohe, HI 96744

SB-2774

Submitted on: 2/6/2020 8:54:10 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cheryl Reeser	Individual	Support	No

Comments:

Please support SB2774. Mahalo.

SB-2774

Submitted on: 2/6/2020 9:09:06 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jonas Vibell	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of something that is painfully obvious, dangerous, and urgent. It is unfortunate that it has come to this but we need to support SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line asap.

As a water drinker and resident of Honolulu, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source after repeated leaks. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment and this is no small matter. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Jonas

SB-2774

Submitted on: 2/6/2020 11:01:12 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Gray	Individual	Support	No

Comments:

Please protect our drinking water. We already know that tanks leak, it goes unreported and unresolved, and there is no enforcement for polluting. What will be said or done when our water table is unusable. The outcomes are too dangerous to contemplate. Mahalo for doing the right thing.

SB-2774

Submitted on: 2/6/2020 11:07:32 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Juliet Pearson	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

SB-2774

Submitted on: 2/6/2020 11:40:41 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
jennifer valentine	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

SB-2774

Submitted on: 2/6/2020 12:54:28 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sandra Fujita	Individual	Support	No

Comments:

I support SB2774. The Red Hill fuel tank facility should be shut down and the fuel should be relocated away from our drinking water. Oahu's water should be protected from contamination.

SB-2774

Submitted on: 2/6/2020 1:14:07 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Pete Wilson	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

SB-2774

Submitted on: 2/6/2020 1:15:55 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Vance Martin	Individual	Support	No

Comments:

I support this bill because the current plan to mitigate risk takes years and years. We need to do something soon.

SB-2774

Submitted on: 2/6/2020 5:39:47 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Patricia Blair	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/6/2020 5:43:58 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Mark A. Koppel	Individual	Support	No

Comments:

We cannot have our water supply endangered. Ever.

Mahalo

SB-2774

Submitted on: 2/6/2020 8:08:32 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Diane Ware	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Diane Ware, 99-7815 Kapoha, Volcano HI 96785

SB-2774

Submitted on: 2/6/2020 9:01:33 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sherry Pollack	Individual	Support	No

Comments:

I strongly support SB2774 because I am deeply concerned about the underground storage tanks at the Navy's Red Hill storage facility. I ask that an amendment be considered to move the date to be much sooner than 1/1/2028. That's a very long time from now for us to be hoping and praying there are no more leaks, especially considering these tanks are directly about a major water source. This risk threatening Oahu's drinking water security is unacceptable. We must act now to protect our precious water.

Ola I Ka Wai! Water is life!

Thank you for the opportunity to testify.

SB-2774

Submitted on: 2/6/2020 8:25:23 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer Azuma Chrupalyk	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/7/2020 9:16:09 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jessica dos Santos	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

*Sincerely,
Jessica dos Santos*

SB-2774

Submitted on: 2/7/2020 11:07:57 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
noel kent	Individual	Support	No

Comments:

The location of the Navy fuel tanks poses a dire threat to our civilian water supply on this island. This is nothing less than an existential danger: It directly threatens to undermine the future ability of many of our inhabitants to continue to live here. As a local resident, I am aghast at the dangers posed to our community and the welfare of our keiki. The failure of the Navy and State Public Health officials to relocate these tanks is a monumental failure. The legislature must pass SB2774 and remove this danger. Noel Kent

SB-2774

Submitted on: 2/7/2020 4:42:27 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sandy	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774; prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major source of our drinking water. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since being construction. In 2014, 27,000 gallons of fuel were released—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Sandy Jansen

My 2 kids (ages 10 and 14) would also like to voice their support for this bill. My 10 year old says "Please pass this bill, I like the water quality we have here in Hawaii, and I don't want fuel to get into it."

SB-2774

Submitted on: 2/7/2020 5:59:08 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Crystal Dombrow	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/8/2020 9:07:05 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jolie Wanger	Individual	Support	Yes

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, although I would prefer the bill to include stronger language requiring the removal of storage tanks starting immediately. There is no telling when the next disastrous spill might occur. We cannot wait any longer to decisively eliminate this threat.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

*Sincerely,
Jolie Wanger*

SB-2774

Submitted on: 2/8/2020 2:35:46 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Bethanie Hancock Sidwell	Individual	Oppose	No

Comments:

I STRONGLY oppose this bill.

SB-2774

Submitted on: 2/8/2020 7:15:16 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cynthia McArthur	Individual	Support	No

Comments:

The Red Hill fuel storage tanks are the greatest threat to human life on Oahu. No one can live without clean water. The military is supposed to protect human life not put us at risk. It will cost so much more money to try and clean up the fuel spills then to require an immediate end to storing fuel in these dangerous and outdated tanks. Waiting for the Navy to fix this problem is irresponsible and dangerous. The Red Hill facility must be shut down now.

With conviction,

Cynthia McArthur

SB-2774

Submitted on: 2/8/2020 10:22:28 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Bronson Kainoa Kiyoshi Azama	Individual	Support	No

Comments:

Aloha,

I would like to voice my support for this bill as I do not see it as a sustainable practice to conduct such operations in areas vital to maintaining our water supply. I would see it as a measure that would best solve the issue occurring at Red Hill, with the fuel tanks leakage. The best solution is to not conduct such operations in areas up mauka and known to have important aquifers. This would be a step in the right direction to preserving our natural resources and sustainably living in Hawai'i overall.

Mahalo,

Bronson

SB-2774

Submitted on: 2/8/2020 10:41:19 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Steven Forman	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/8/2020 10:51:50 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
heather mcmillen	Individual	Support	No

Comments:

Aloha ,

I support SB2774. As a scientist, a mother, a community member, and someone who relies on water for life, it is shocking to me that no action has yet been taken on this measure to safeguard our water. I urge you to Stop the Navy from 75 years of leaking fuel into Oahu's drinking water.

Sincerely,

Heather McMillen, PhD

SB-2774

Submitted on: 2/9/2020 10:29:12 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kiana Otsuka	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice Chair Ruderman, and Members of the Committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Kiana Otsuka

SB-2774

Submitted on: 2/9/2020 10:57:15 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Phillip	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing this testimony in strong support of SB2774, relating to underground storage tanks.

It concerns me that the United States Navy is allowed to continue to store their tanks directly above a water source. They themselves say that there is a chance of 30,000 gallons of fuel being leaked every year.

We can't and we shouldn't be sitting and watching this threat happen to our water system. There is no excuse for this.

Thank you for your time.

Respectfully,

Barbara Phillip

SB-2774

Submitted on: 2/9/2020 12:41:49 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kamalani Keliikuli	Individual	Support	No

Comments:

SB-2774

Submitted on: 2/9/2020 1:08:11 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tanya K.D. Alana	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in STRONG SUPPORT of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker who is dependent on water for survival, like everyone in this entire world. I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources. The deoccupation of the United States Military would be better than relocation.

Thank you for the opportunity to testify on this important matter.

Sincerely,
Tanya K. D. Alana

SB-2774

Submitted on: 2/9/2020 1:10:55 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Hannelore Herrmann	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Sincerely,

Hannelore Herrmann

SB-2774

Submitted on: 2/9/2020 1:35:28 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Don King	Individual	Support	Yes

Comments:

Aloha,

I am in support of S.B. 2774

Pure drinking water is our most fun important resource. We need to protect it.

My son recently tested very high for jet fuel in his body. I believe this is most likely from contaminated drinking water

The military should build new tanks with better safety away from the aquifer. I understand this is difficult and expensive but over the long term there is no other good option. With the status quo further leaks will be tolerated and excused as the tanks get older and more rusted and leaky. Better to start building new tanks as soon as possible.

Sincerely,

Don King

Testimony of Danna Olsen in regard to SB2774, relating to underground storage tanks before the Committee on Agriculture and the Environment
Monday, 10 February 2020

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

My name is Danna Olsen. I am a concerned resident of Kailua who works in Honolulu for the State of Hawai'i OSHA. I earned my B.S. degree double majoring in Biological Aspects of Conservation and Zoology with a certificate in Environmental Studies from the University of Wisconsin- Madison. My first job after college was doing environmental testing on soils and water. I have a Master of Public Health degree with a focus on environmental health from the UW School of Medicine and Public Health.

I strongly support SB2774 and provide comments below. This measure prohibits, the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

Protecting water quality should be a top priority; groundwater aquifers are a primary source of drinking water. Yet history has shown that this is not a top priority to the military in Hawaii. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014. There is already a plume of fuel sitting over our groundwater.

I call on the Department of Health to mandate the U.S. Navy to retire the Red Hill fuel tanks and relocate the fuel. The recent findings from the Navy's corrosion study are frightening. With the tanks corroding much faster than the Navy anticipated, it is unacceptable that the Navy simultaneously proposes the least protective upgrades to the Red Hill tanks. The Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year.

Clearly the tanks are too fragile and outdated to be sufficiently repaired to ensure protection of our drinking water. The facility should be retired and the fuel should be stored in safer tanks where O'ahu's drinking water resources are not threatened. But I'm not suggesting repeating a past mistake. Storing jet fuel in such massive tanks is inherently a terrible idea. Stockpiling this much fuel poses greater risks than benefits. I'd like to point out that a 27,000-gallon leak is not the result of a single employee error; it indicates systemic failure, poor management and inadequate training and emergency response. Forgive me for not having confidence that it won't happen again. These tanks are not typical for a reason; their inspection and maintenance could present serious hazards to the workers tasked to service them. I am left questioning the need for this storage. Under what apocalyptic

scenario is there a need for this volume of jet fuel at the ready? The world has changed since these tanks were conceived. In today's world these tanks are a prime target for terrorism. The wars of the future are likely to be over access to clean water. O'ahu is said to have some of the best fresh water on Earth. Please don't poison the well.

The Health Department has the constitutional obligation, and the responsibility as the only local regulating agency in the Administrative Order on Consent, to protect Hawai'i's drinking water resources from contamination. Thank you for the opportunity to provide comments on this extremely important issue.

Mahalo,

Danna Olsen

SB-2774

Submitted on: 2/9/2020 1:37:31 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Anuheia	Individual	Oppose	No

Comments:

I Anuheia Drummondo support sb277. The current situation for Red Hill storage tanks is being poorly managed by the military. The solution that they came up with for the oil leaks is a process that they already use for maintaince. It hasn't fixed anything or resolved the issues that are being presented. I support SB2774, Mahalo

SB-2774

Submitted on: 2/9/2020 1:52:35 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Hannah Azouz	Individual	Support	No

Comments:

As a geologist, these ancient storage tanks sitting above our main water supply is terrifying. 2028 is honestly too long, they should have been decommissioned years ago when the first leak occurred.

I support this bill, and hope to see those tanks decommissioned in the very near future. As the state moves toward clean energy, large storage tanks from the military should not be excluded from our state's goals and initiatives. We should be holding an example to the military that this is not the place for bringing us away from our goals; they have taken enough already. Unless they plan on shipping us in clean water, they should decommission these tanks as soon as possible.

Please support this bill so that our island does not become the next Flint, Michigan. Could you imagine shipping in water? Or the entire population relying on catchment?

Please protect our water!

SB-2774

Submitted on: 2/9/2020 2:06:37 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Bal Patterson	Individual	Support	Yes

Comments:

Committee on Agriculture and Environment
Monday, February 10, 2020
2:15 p.m.

Relating to Underground Storage Tanks.

Testimony in Strong Support of SB2774

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

My name is Bal Patterson and I am a taxpaying Hawaii resident and registered voter. I am writing today in **STRONG SUPPORT** of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

I am extremely concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The massive Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up.

The Navy, EPA, and DOH have been “working” on a 20-year plan to fix the tanks to “better guard” Oahu’s water. After six years into the agency agreement, the Navy wants even more time to figure out their solid protection plan. Oahu should not have to wait much longer to know that their water is safe in the long run.

More upsetting is that the Navy’s own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O’ahu’s drinking water security and I invite you to join me by

passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

Thank you for the opportunity to testify on this important matter.

Respectfully submitted,

Bal Patterson

SB-2774

Submitted on: 2/9/2020 2:13:41 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Blaine De Ramos	Individual	Support	No

Comments:

I support SB2774

SB-2774

Submitted on: 2/9/2020 4:14:01 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kristin Speltz	Individual	Support	No

Comments:

The studies have shown that leakage of these storage tanks will contaminate our drinking water. The Military has a responsibility to its host culture--that's us: residents of Hawaii. Remove the fuel--do not risk our water supply on a coin toss! Be pono!

SB-2774

Submitted on: 2/9/2020 7:19:20 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Janet Pappas	Individual	Support	No

Comments:

Feb. 9, 2020

Dear Chair Gabbard, Vice Chair Ruderman and AEN Committee Members,

I strongly support Bill SB2774 to ban underground storage of fuels in the Red Hill area no later than 2028 (earlier if possible).

My view: Over several years I have listened to both the U.S. Navy personnel and the Honolulu Board of Water Supply's (BWS) Manager and Chief Engineer, Ernest Lau, characterize the status of the Red Hill fuel tanks which are under investigation for fuel leaks. I also contacted Omer Shalev at the Environmental Protection Agency (EPA) in San Francisco. From the information presented by these parties, I believe Mr. Lau's testimony gives us--the water drinkers (consisting of Oahu residents and visitors)--the truest picture of the "clear and present danger" we are dealing with if there is a major leak that contaminates the underlying aquifer.

History: Twenty enormous tanks, each 250' tall by 100' in diameter, were constructed 77 years ago (early 1940s) by the Navy and filled with various fossil fuel mixtures used for wartime emergencies. These USTs (underground storage tanks) sit approximately 100 feet above the fresh water aquifer that supplies drinking water to over 400,000 people on Oahu--from Moanalua to Hawaii Kai including Waikiki and the Navy's Pearl Harbor facilities (not including the people who travel from Ewa and elsewhere into downtown, UH-Manoa and Waikiki and drink the water daily).

The issue: What exactly separates the millions of gallons of fuel (over 12 million gallons per tank) in these rapidly-aging tanks from the pristine water in the aquifer? That answer varies depending on how much deterioration one believes has occurred to the 4' porous concrete "blanket" and 1/4" steel (not stainless) liner that make up each tank. Figuring out the amount of corrosion/deterioration is a guessing game at best as only a few small "coupons" (1' by 1' square "cutouts" from one tank) have been examined by a Mainland lab for damage (the majority of coupons showed corrosion was ongoing). After a reported fuel leak in 2014 was investigated (see next paragraph), the Navy gave themselves 22 years (to 2038) to complete the testing, come up with a plan and resolve this issue. So far, many public meetings have been held; tank monitoring has been increased; and Navy and Mainland testing has shown that, due to corrosion, the tanks

now have a 27.6% chance of a major leak (30,000 gallons or more) yearly. What does the Navy propose? 1) more monitoring, 2) “hope” that a solution can be found, and 3) an extension of their deadline to 2045. By then the tanks will be 102 years old.

Really?? This is a plan?? This is our drinking water!!

Digging deeper: Since 1947, records show that 200,000 gallons of fuel have leaked. This information was not publicly known until the most recent leak in January 2014 when a workman actually drilled a hole and punctured a tank. When the tank was filled, it leaked 27,000 gallons of fuel before the leak was detected. It was considered “human error.” That fuel still sits—outside the tank--above the aquifer; it was never cleaned up. In fact, the Navy, in their “Groundwater Protection...” report dated July 27, 2018, stated: “It is possible that a release as large as 700,000 gallons would not cause an exceedance of the RBDC (risk-based decision criteria) at Red Hill Shaft” (page 59). This is absurd. Again, are we at all talking about protecting our drinking water?

Suggested resolutions:

1) Ernest Lau (BWS) has worked tirelessly since the 2014 fuel spill to inform the public about the testing issues, the seriousness of the threat to Oahu’s water, and the seemingly cavalier attitude of the agencies ultimately responsible for the decision of what to do—the U.S. Navy, the U.S. Environmental Protection Agency (EPA) and the Hawaii Department of Health (HDOH). Chief Engineer Lau has countered the 22-year testing scenario with the following proposals:

“â—• Double line the tanks. If not, then relocate away from the potable water aquifer;

â—• Meet the same regulatory requirements as all other underground storage tanks; and

â—• Clean up the fuel that is already underneath the tanks to reduce the long-term threat to other wells in the area.”

Ernest Lau, BWS, Manager and Chief Engineer

2) There exist similar, large, aging fuel tanks in the state of Washington, although they are not above a drinking water source. Within a year, the Navy has gotten approval for this upgrade project: “Almost a year after the idea was [first publicly broached](#), the Navy has secured approval to move forward with a proposal to replace a number of the World War II-era underground fuel storage tanks [5 tanks] at Naval Base Kitsap-Manchester (“Proposal to replace WWII-era fuel storage tanks at Naval Base Kitsap-Manchester approved”, Kitsap Sun, Nov. 13, 2018). Why so slow in Hawaii where the situation is much more dire?

Our family’s opinion: We agree with Ernest Lau (BWS Manager and Chief Engineer), the Honolulu City Council, Dr. Ellen Sofio, M.D., Mr. Pete Shimazaki Doktor (Veterans

for Peace) and the great majority of Hawaii citizens who have publicly demanded the dismantling and removing of these tanks from their present location post haste. We are simply not prepared to handle any disaster that contaminates this precious water source.

There is no way to allay the fear of imminent disaster from the Red Hill fuel tanks as long as these 77-year-old, single-walled, corrosion-prone tanks holding millions of gallons of fuel sit atop Oahu's major source of fresh water. Such a disaster is unthinkable, akin to a nuclear attack.

We strongly support relocation of the tanks with planning begun early in 2020 and removal completed as soon as it is feasible. This is the safest and smartest alternative. We don't deny that we need fuel for defense of our state and our country; but if the trade-off is the possible loss of Oahu's largest water supply, safe, drinkable water should be the obvious choice. If new tanks are put elsewhere on Oahu, they should be double-walled and meet all current specifications for USTs or above-ground fuel tanks.

Quoting the StarAdvertiser: "Oahu's aquifer is the only one of its kind; and, since it cannot be relocated or replaced, it is priceless."

Finally, this project should be a top priority of the State and City and County. Do not leave this problem for our children and grandchildren. Support SB2774 now. Water is life!

Thank you for the opportunity to speak on this most important matter.

Jan Pappas and Family

98-1287 Akaaka St.

Aiea, Hawaii 96701

Jpappas60@gmail.com

808-383-1988

SB-2774

Submitted on: 2/9/2020 9:27:18 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Christina Levang	Individual	Oppose	No

Comments:

I vote no towards the selling of CBD by only dispensaries. This monopolizes and gives one operation too much control in the selling of medicine that people of all incomes need.

SB-2774

Submitted on: 2/9/2020 10:07:09 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Pete Doktor	Individual	Support	No

Comments:

I write in strong support for SB2774, in its effort to address the hazards of large capacity underground storage tank systems, and maintain safe drinking water.

As a parent in a home in which we can see Red Hill from our lanai, we worry about the impact of leakages past, present and future on our daughter's brain development and overall health.

As a State resident, I am concerned about the reoccurrence of promises broken or undelivered, such as with the failed restoration of Kaho`olawe.

As a citizen, I expect governments of this land to protect the public health and safety, to include the very resources which sustain life on remote islands.

SB-2774

Submitted on: 2/9/2020 10:31:48 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Matthew Geyer	Individual	Support	Yes

Comments:

Please pass a bill that will keep the jet fuel in the red hill storage tanks from impacting our water supply. If our water supply gets contaminated, this will be a huge expense and liability for the state of Hawaii.

SB-2774

Submitted on: 2/10/2020 1:41:15 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tara Rojas	Individual	Support	No

Comments:

Water is life. Period.

SB-2774

Submitted on: 2/10/2020 6:18:58 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Brooke Jones	Individual	Support	No

Comments:

Chair Mike Gabbard, Vice Chair Russell E. Ruderman, and Members of the Committee on Agriculture and Environment,

I write in strong support of SB 2774, RELATING TO UNDERGROUND STORAGE TANKS, which would effectively shut down the Red Hill fuel tank facility by 2028 and require the fuel to be relocated away from Oahu's drinking water.

I live in Honolulu, and have read with dismay the Navy's reactions and proposed solutions to the corrosion of the Red Hill fuel storage tanks. As of November, the Navy says it will "explore" a double-wall option and will relocate the fuel by 2045 if it determines double-wall is not an option (Hawaii Public Radio, Nov. 7, 2019). This is ridiculous.

The fuel tanks at Red Hill threaten half of Oahu's drinking water supply: the fuel tanks were built 100 feet above an aquifer 75 years ago and are currently corroded, have already leaked 27,000 gallons of fuel in 2014, and are in need of significant repair at the very least, and at best, removal. My drinking water comes from the aquifer the tanks threaten, as does the water of all Oahu residents who live from Moanalua to Hawaii Kai.

The Navy has been reactionary and resistant to spending the funds needed to protect our drinking water. In September 2018, the Honolulu Star-Advertiser article "Red Hill fuel tank corrosion worse than expected" reported that the tanks are significantly more corroded than the Navy's previous estimates, and a leak would be catastrophic. The article also notes that the reason the Navy tested the corrosion in the first place is due to an agreement with federal and state regulators -- not of their independent volition. And the Navy's response to these results at the time? No action. "We have and will not rush to judgement or conclusions, and we will continue to keep the drinking water safe, no matter what. There is much more work to do in studying, analyzing and then implementing all the right initiatives at Red Hill," responded Rear Adm. Brian Fort, commander, Navy Region Hawaii and Naval Surface Group Middle Pacific. Now, perhaps as a result of pressure, the Navy will "explore" double-wall, and take 25 years to relocate the tanks if they decide that's necessary.

The Navy's responses to the decaying state of its Red Hill Bulk Fuel Storage Facility have been inadequate. From the Navy's previous and current lack of action, it seems its priority is saving money rather than ensuring Hawaii residents' rights to drinking water. Enough is enough. I can't tell you how angry I am at the Navy's skewed priorities. Apparently our drinking water matters less than saving a few bucks. And it is a few bucks - the amount of money our country spends on its military is ridiculous. But when it comes to our drinking water, forget it! Are we going to have our own version of Flint, right here on Oahu? I am very, very angry, and with good reason.

I ask you to pass SB 2774. No more waiting so that the Navy can figure out how to spend as little money as possible to patch together something that's just adequate on the best of days - our drinking water is worth more than that. With increased natural disasters happening and on the horizon, it makes no sense to skimp on fixing or moving those tanks; consider an earthquake, catastrophic hurricane, or any number of likely scenarios that could stress the integrity of those tanks.

Thank you for your time.

Sincerely,

Brooke Jones

SB-2774

Submitted on: 2/10/2020 10:27:31 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara L. George	Individual	Support	No

Comments:

SUPPORT!

SB-2774

Submitted on: 2/10/2020 11:07:07 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
William Caron	Individual	Support	No

Comments:

Studies show Red Hill tanks have a **30% chance of leaking 30,000 gallons of** fuel every year. There is **no technology available now** that can prevent fuel from these tanks escaping into the environment. **Other locations exist** on O'ahu to store the fuel closer to Pearl Harbor and not above the groundwater aquifer.

SB-2774

Submitted on: 2/10/2020 11:33:48 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
lois berger	Individual	Support	No

Comments:

I support any effort to protect Oahu's water aquifers. In today's age, water is more precious than ever before, beyond just drinking water but to sustain agriculture and all forms of life as we know it. We live on an island and subject to severe restrictions should our water be negatively affected. If we wait until contamination reaches a level that necessitates additional filtration, water will become so cost prohibitive that agriculture and the average person will not be able to afford it. We will lose all that is green and what brings people to Hawaii and collapse our economy.

We need to remove the fuel tanks that are only 100 feet from our most productive water source. And, fines need to be levied if this law is ignored, until it comes so cost prohibitive for them to continue. These days only money seems to talk.

Thank you. Lois Berger

SB-2774

Submitted on: 2/10/2020 11:36:06 AM

Testimony for AEN on 2/10/2020 2:15:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Soo San Schake	Individual	Support	No

Comments:

Aloha Chair Gabbard, Vice chair Ruderman, and members of the committee,

I am writing today in strong support of SB2774, prohibiting the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

As a water drinker, I am incredibly concerned that the underground storage tanks at the U.S. Navy's Red Hill storage facility remain in operation directly above a major water source. The Red Hill tanks are over 75 years old and have a long history of leaking fuel into the surrounding environment. This facility alone has leaked over 200,000 gallons since construction, most recently releasing 27,000 gallons of fuel in 2014—none of which was ever located or cleaned up. More upsetting is that the Navy's own recent study shows that the tanks at Red Hill have a 27.6% chance of leaking 30,000 gallons of fuel every year and that they expect chronic fuel leaks of 5,800 gallons every year. I cannot stand idly by while there is such a massive threat to O'ahu's drinking water security and I invite you to join me by passing this much needed bill.

There is no tank upgrade option that provides as much security as the relocation of the Navy's fuel away from drinking water resources.

SB-2774

Submitted on: 2/10/2020 12:08:15 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

LATE

Submitted By	Organization	Testifier Position	Present at Hearing
Nikos Leverenz	Individual	Support	No

Comments:

Chair Gabbard, Vice-Chair Ruderman, & Members of the Committee:

I strongly support SB 2774, which would prohibit the operation of underground storage systems with a capacity of 100,000 gallons or more, mauka of the underground injection control line, after 1/1/2028.

The short of it is that no tank upgrade option provides as much health security for the hundreds of thousands who depend on the endangered aquifer as the relocation of the Navy's fuel away from drinking water resources.

Subject to federal appropriation, this fuel can be stored expeditiously on Joint Base Pearl Harbor-Hickam.

Oil refineries store fuel in above ground tanks which are far easier to maintain and repair. Why can't the US Navy? The Navy also has ships to store fuel (7.5M gallons each). If hypothetical incoming projectiles from foreign belligerents pose a serious threat to fuel storage then US defense capabilities will have been degraded to an extent where it really won't make much difference.

Thank you for the opportunity to testify on this important matter.

LATE

SB-2774

Submitted on: 2/10/2020 2:10:47 PM

Testimony for AEN on 2/10/2020 2:15:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Gina Hara	Individual	Support	Yes

Comments:

To: The Committee on Agriculture and Environment: Senators Mike Gabbard (Chair), Russell E Rudderman (Vice Chair); Karl Rhoads, Laura H Thielen, Kurt Fevella:

RE: SB 2774: Prohibits, beginning 1/1/2028 a person to operate an underground storage system with a capacity of 100,000 gallons or more mauka of the underground injection control line.

I strongly **SUPPORT SB2774**.

- 1) A Navy Report summarizing the total needed fuel in the Pacific was supposed to come out 12/31/2019.
- 2) How much fuel did the Navy use over a 10-year period?
- 3) What is the tankage of fuel currently available on Oahu?
- 4) How much more storage tankage is necessary given this new data?
- 5) Both Pt. Loma and Manchester Washington WWII tanks were similarly downsized to approx 1/2 their original capacity. Times have changed.
- 6) Has the Navy looked into Ford Island as a site besides C, L and A locations which are approved by the Board of Water from the initial 14 possible alternative site list.
- 7) Has the Navy considered restoring the tell-tale leak system?

I support SB2774, as there is no two way communication between a representative of the People of Hawaii and the Navy in the current AOC system.

Thank you, Gina Hara, Halawa Valley

SB-2774

Submitted on: 2/10/2020 2:14:08 PM

Testimony for AEN on 2/10/2020 2:15:00 PM



Submitted By	Organization	Testifier Position	Present at Hearing
Fern Anuenue Holland	Individual	Support	No

Comments:

Mahalo for this bill senators!

I am in strong support!

Fern A Holland BSc

SB-2774

Submitted on: 2/10/2020 2:27:12 PM

Testimony for AEN on 2/10/2020 2:15:00 PM



Submitted By	Organization	Testifier Position	Present at Hearing
Ashley Nishihara	Individual	Support	No

Comments:

Aloha,

I am in favor of SB2774, which prohibits (after January 2028) a person to operate an underground storage system with a capacity of 100,000 gallons or more, mauka of the underground injection control line.

I am very concerned about the situation at Red Hill. My family and I have attended the recent public meetings concerning this issue on November 19th and December 2nd, and are disheartened by the Navy's lackadaisical attitude towards the potential threat their fuel tanks pose to our precious drinking water aquifer. I think that this bill should actually go several steps further and propose that beginning right NOW it can prohibit anybody from operating any tanks underground whatsoever. Any fuel tanks should be required to be constructed and operated above ground, AND far, far away from our drinking water.

Mahalo,

-Ashley Nishihara

SB-2774

Submitted on: 2/10/2020 3:35:04 PM

Testimony for AEN on 2/10/2020 2:15:00 PM



Submitted By	Organization	Testifier Position	Present at Hearing
Lynda Nishihara	Individual	Support	No

Comments:

The Red Hill fuel tanks should be removed and relocated to above ground tanks over the caprock,

not the aquifer. By the Navy's own data tanks have been leaking and continue to leak and there

is a 27% chance of a future major leak. I cannot fathom why DOH doesn't act more aggressively

to protect our water. Even giving an eight year time frame is too long!