

**BOARD OF WATER SUPPLY
KA 'OIHANA WAI
CITY AND COUNTY OF HONOLULU**

630 SOUTH BERETANIA STREET • HONOLULU, HAWAII 96843
Phone: (808) 748-5000 • www.boardofwatersupply.com

RICK BLANGIARDI
MAYOR
MEIA

ERNEST Y. W. LAU, P.E.
MANAGER AND CHIEF ENGINEER
MANAKIA A ME KAHU WILIKI

ERWIN KAWATA
DEPUTY MANAGER
HOPE MANAKIA



NĀ'ĀLEHU ANTHONY, Chair
JONATHAN KANESHIRO, Vice Chair
BRYAN P. ANDAYA
LANCE WIL HELM
EDWIN H. SNIFFEN, Ex-Officio
GENE C. ALBANO, P.E., Ex-Officio

September 16, 2025

NOTICE

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, September 22, 2025, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Limited seating will be available for in-person testifiers in the Boardroom. The public may also view the livestream of the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

Public parking for this meeting is available in the Public Service Building customer parking lot.

TESTIMONY

Testimony may be submitted as follows:

- **Written testimony** should include the submitter's address, email address, and phone number. Testimony should be received by Monday, September 22, 2025, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 South Beretania Street, Honolulu, HI 96843
 - Fax to (808) 748-5079
- **Oral testimony** will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.
 - To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimonyZoom registration instructions, as well as participant guidelines, will be sent to the contact information provided. Once confirmed as registered, testifiers will receive an email containing the links and instructions to join the Zoom session. Submit your request to testify remotely by Friday, September 19, 2025, at noon.
 - To testify in person at the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843, please pre-register by submitting your request by Monday, September 22, 2025:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony

In-person testifiers should check in with building security and then with testimony staff located in the lobby. Testifiers will be escorted to and from the Board Room. On-site registration will be available for walk-in requests.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only. Testimony submitted in writing or orally, electronically or in person, for use in the meeting process is public information. All testimony will be included as part of the approved meeting minutes at boardofwatersupply.com/boardmeetings.

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS §92-7.5) are accessible at www.boardofwatersupply.com/boardmeetings.

VIEWING THE MEETING

The meeting will be viewable via live streaming on the BWS website: www.boardofwatersupply.com/live. Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio, as muted audio tends to be the default setting.

SPECIAL REQUESTS AND ACCOMMODATIONS

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter, interpreter for language other than English, or wheelchair accessibility), please call Joy at (808) 748-5172 or email your request to board@hbws.org **at least three business days prior to the meeting date**. If a response is received after the requested three business days before the meeting date deadline, we will try to obtain the auxiliary aid/service or accommodation, but we cannot guarantee that the request will be filled.

Upon request, this notice is available in alternate formats such as large print, Braille, or electronic copy.

The agenda for September 22, 2025, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on August 25, 2025
2. Adoption of Resolution No. 1002, 2025, Marc Chun, 2025 Manager of the Year
3. Adoption of Resolution No. 1003, 2025, Jessica Yee, 2025 Employee of the Year
4. Adoption of Resolution No. 1004, 2025, Wayne Tello, 2025 Employee of the Year
5. Adoption of Resolution No. 1005, 2025, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Water Conservation Initiatives Update 2025
3. Status Update of Groundwater Levels at All Index Stations
4. Water Main Repair Report for August 2025

MINUTES

To watch the recording of this meeting, please click on the following link:
<https://vimeo.com/bwshonolulu/sep-22-2025>. Closed captioning is available.

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

September 22, 2025

At 2:00 PM on September 22, 2025, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Chair Nā'ālehu Anthony called to order the Regular Meeting.

Present: Nā'ālehu Anthony, Chair via Zoom
Jonathan Kaneshiro, Vice Chair
Bryan P. Andaya, Board Member via Zoom
Gene Albano, Ex-Officio via Zoom

Also Present: Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager
Jewel Pharms, Assistant Program Administrator,
Customer Care
Kathleen Elliott-Pahinui, Information Officer,
Communications Office
Daniel Lee, Acting Program Administrator,
Field Operations Division
Patrick Chun, Acting Program Administrator,
Capital Projects Division
Leanne Matsumoto, Waterworks Controller,
Finance Division
Michele Thomas, Executive Assistant I,
Human Resources Office via Zoom
Kenrick K. Wong,
Data Processing Systems Analyst V,
Information Technology Division
Michael Matsuo, Land Administrator, Land Division
Kirk Iwamoto, Water Quality Laboratory Director,
Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division
Cary Watanabe, Assistant Program Administrator,
Water System Operations Division
Joyce Lin, Acting Departmental Staff Executive
Assistant, Office of the Manager and
Chief Engineer
Kimberly Kuwaye, Manager's Secretary
Joy Cruz-Achiu, Board Secretary
Kathy Mitchell, Administrative Services Officer
via Vimeo

Stella Bernardo, Information Specialist II,
Communications Office via Zoom
Michele Harman, Community Relations Specialist I,
Communications Office via Zoom
Wayne Maria, Information Specialist II,
Communications Office

Others Present: Jessica Wong, Deputy Corporation Counsel
via Zoom
Jeff Lau, Deputy Corporation Counsel via Zoom

Absent: Lance Wilhelm, Board Member
Edwin Sniffen, Ex-Officio

Chair Nā'ālehu Anthony opened the Board meeting with an 'olelo no'eau:

Aloha mai kākou e nā hoa makamaka mai ka lā hiki a ka lā kau. Welina nui me ke aloha!

Mahalo nui no kēia 'ākoakoa 'ana o kākou no ka pono o ka lāhui, no ka pono o ka 'āina, a no ka pono o ka wai nō ho'i. Eia he mana'o mai ka wahine e kakau ka puke 'ōlelo no'eau.

Chair Anthony translated the 'olelo no'eau: Aloha from the rising to the setting sun Thank you all for coming together today for the people, the land and the water. Here is a thought by the person who wrote the 'Olelo No'eau, Hawaiian Proverb book.

'Olelo 405: Hahai no ka ua i ka ulu la'au.

Chair Anthony translated the 'olelo no'eau: Rains always follow the forest. The rains are attracted to forest trees. Knowing this, Hawaiians hewed only the trees that were needed.

Chair Anthony welcomed everyone to the September 22, 2025, Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

Before continuing the meeting, Chair Anthony stated that a recording would play to share reminders for public participation and virtual meeting regulations required by law.

The recording played: Goals for this meeting under Hawai'i Revised Statutes, Section 92-7.5 are accessible at www.boardofwatersupply.com/boardmeeting. The public may attend this meeting in person at the Public Service building located at 630 South Beretania Street. The public may also view a live stream of today's meeting on our website at www.boardofwatersupply.com/live. We have been accepting written or oral testimony for today's meeting. Instructions and an online submittal form are available at boardofwatersupply.com/testimony. The deadline to submit advance written testimony has passed. Testimony received by noon today has been distributed to the board members. We will continue to accept written testimony today through our online form. Oral testimony in person or remotely will be accepted during today's meeting. To facilitate as much in-person and remote testimony as reasonably possible during the time allotted, preregistration and submittal of a written version of testimony at boardofwatersupply.com/testimony is strongly encouraged. To testify in person, please register using our online form or come to the public service building at 630 South Beretania Street. We have a representative in the lobby to provide intake and further instructions. To request to testify remotely, please complete the online form at boardofwatersupply.com/testimony. Requestors will receive an email containing links and instructions on how to join the Zoom session. Testifiers will have two minutes to state their position. A timekeeper will alert testifiers when there is one minute remaining. Once the two minutes are up, please summarize to allow time for questions from the Board. Then, make room for the next testifier. Board members attending any board meeting remotely must be visible to the public to be considered, present, and meet quorum guidelines. Board members participating remotely must also disclose their location and anyone present at their location during roll call. Meeting participants who are calling or video conferencing in, please mute your microphone when you're not speaking. If you have a question, comment, or wish to enter or second a motion on an action item, please unmute your microphone and identify yourself before continuing to speak. If you encounter technical issues during today's meeting, please use the Zoom chat to send a direct message to our support team. Their names are listed in the

message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call for the Regular Meeting. He asked those participating remotely to give the appropriate disclosures upon responding.

Joining via Zoom: Board Member Bryan Andaya responded "aye" and disclosed that he was also alone at his location and Board Member Gene Albano responded "aye" and disclosed that he was alone at his location. In the Board room: Vice Chair Jonathan Kaneshiro, responded aye. Chair Nā'ālehu Anthony was in the Board room.

Chair Anthony introduced those in the Boardroom: Manager Ernest Lau, Deputy Manager Erwin Kawata, Manager Secretary Kimberly Kuwaye, Board Secretary Joy L. Cruz-Achiu, and Information Specialist II Wayne Maria. Deputy Jessica Wong and Deputy Jeff Lau joined via Zoom from the City and County Corporation Counsel.

REGULAR MEETING

APPROVAL OF MINUTES Approval of the Minutes of the Regular Meeting Held August 25, 2025.

MOTION TO APPROVE Jonathan Kaneshiro and Bryan Andaya motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on August 25, 2025

Ms. Cruz-Achiu conducted a roll call: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with four ayes. Board Members Lance Wilhelm and Edwin Sniffen were absent.

THE MINUTES OF THE REGULAR MEETING HELD ON AUGUST 25, 2025, WERE APPROVED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

“September 22, 2025

ADOPTION OF
RESOLUTION
NO. 1002, 2025,
MARC CHUN, 2025
MANAGER OF
THE YEAR

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 1002, 2025,
Marc Chun, 2025 Manager of the Year

We are pleased to announce that the 2025 Manager of the Year for the Board of Water Supply is Mr. Marc Chun. He is the Assistant Program Administrator of the BWS's Water Resources Division.

We recommend the adoption of Resolution No. 1002, 2025, to honor Mr. Chun for his outstanding leadership, service, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Barry Usagawa, Program Administrator, Water Resources Division, gave the report.

Board Member Bryan Andaya congratulated Mr. Marc Chun and stated that his recognition as Manager of the Year is well deserved.

Manager Lau shared that upon his return to BWS as Manager, he tasked Mr. Chun with a \$30 million (M) Energy Savings Performance Contracting Project, which took years to complete and many trials and tribulations. However, Mr. Chun saw the project through to its successful completion. Manager Lau expressed his appreciation for Mr. Chun's dedication.

Chair Anthony also congratulated Mr. Chun for his hard work. He stated that recognizing employees' importance when sharing the legacy of an agency, such as the BWS.

MOTION TO APPROVE Bryan Andaya and Jonathan Kaneshiro motioned and seconded, respectively, the Adoption of Resolution No. 1002, 2025, Marc Chun, 2025 Manager of the Year.

Ms. Cruz-Achui conducted a roll call: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achui announced that

the motion passed with four ayes. Board Members Lance Wilhelm and Edwin Sniffen were absent.

ADOPTION OF RESOLUTION NO. 1002, 2025, MARC CHUN, 2025 MANAGER OF THE YEAR, WAS ADOPTED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



**BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU**

RESOLUTION NO. 1002, 2025

**MARC CHUN
2025 MANAGER OF THE YEAR**

WHEREAS, MARC S.O. CHUN, Assistant Program Administrator of the Water Resources Division, has been selected as the Board of Water Supply (BWS) Manager of the Year for 2025; and

WHEREAS, MR. CHUN oversees and integrates the day-to-day work of employees responsible for strategic water resource, infrastructure, and sustainability programs; and

WHEREAS, the significant and consistent program successes of MARC CHUN and his team ensure that capital improvement and long-range water resource plans enable sensible and timely expansion of water system capacity to provide a safe, dependable, and affordable supply to O'ahu water users now and in the future; and

WHEREAS, he effectively motivates his dynamic, cooperative, and cohesive work group to excellence so they can become future administrators aligned with the BWS's mission; and

WHEREAS, this exceptional supervisor and his mid-level managers partnered with BWS Human Resources staff to develop and implement "Watership," a successful summer internship program for five college students who were immersed in real-life BWS challenges to gain practical career skills and experience in working at the BWS to build up BWS's future job recruitment prospects; and

WHEREAS, outside of work, MR. CHUN volunteers as a lay pastor at Hope Chapel Pearl West, where, for many years, he has served the community and its youth ministry; and

WHEREAS, MARC CHUN has proven himself to be a dedicated, dependable, and skillful manager who leads by example and personifies attributes that employees desire in their leaders, earning the respect of his subordinates, colleagues, and BWS management; and

WHEREAS, MR. CHUN's selection as the 2025 BWS Manager of the Year and his nomination as a City Manager of the Year have brought pride and honor to the BWS and all his family and friends; now, therefore

BE IT RESOLVED by the Members of the Board of Water Supply, City and County of Honolulu, that we hereby do express to MARC S.O. CHUN our heartfelt appreciation for his outstanding service to the Department and the City and County of Honolulu; and

BE IT FURTHER RESOLVED that the Members of this Board express our sincere congratulations upon his selection as the Board of Water Supply Manager of the Year for 2025; and

BE IT FINALLY RESOLVED that a copy of this Resolution be presented to MR. CHUN with our warmest aloha and best wishes for all his future endeavors.



Resolution No. 1002, 2025

Adopted this 22nd day of September 2024
Board of Water Supply, Honolulu, Hawai'i



NĀ'ĀLEHU ANTHONY
Chair of the Board

“September 22, 2025

ADOPTION OF
RESOLUTION
NO. 1003, 2025,
JESSICA YEE,
2025 EMPLOYEE
OF THE YEAR

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 1003, 2025,
Jessica Yee, 2025 Employee of the Year

We are pleased to announce that a 2025 Employee of the Year for the Board of Water Supply is Ms. Jessica Yee. She is a Mechanical Engineer III in the Water System Operations Division.

We recommend the adoption of Resolution No. 1003, 2025, to honor Ms. Jessica Yee for her outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment”

DISCUSSION:

Cary Watanabe, Assistant Program Administrator, Water System Operations Division, gave the report.

Manager Lau shared that Ms. Jessica Yee is a supporter of the Po'okela Internship Program, a program that allows college students the opportunity to work for the city and county alongside other City employees, as well as mentor Po'okela students, and was a product of the Po'okela program. Manager Lau thanked Ms. Yee for helping prepare the next generation of the BWS.

Board Member Andaya congratulated Ms. Yee, saying that he is happy that the BWS celebrates the loyalty and service of its employees.

Chair Anthony expressed his appreciation for Ms. Yee. He emphasized the importance of engaging with programs like the Po'okela Internship Program to help students understand what the BWS is about and to share its values. Chair Anthony also shared that his experience as an intern at the BWS helped pave the way for him. He encouraged Ms. Yee to continue her advocacy.

**MOTION
TO APPROVE**

Jonathan Kaneshiro and Gene Albano motioned and seconded, respectively, the Adoption of Resolution No. 1003, 2025, Jessica Yee, 2025 Employee of the Year.

Ms. Cruz-Achiu conducted a roll call: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with four ayes. Board Members Lance Wilhelm and Edwin Sniffen were absent.

ADOPTION OF RESOLUTION NO. 1003, 2025, JESSICA YEE, 2025 EMPLOYEE OF THE YEAR, WAS ADOPTED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



**BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU**

RESOLUTION NO. 1003, 2025

**JESSICA YEE
2025 EMPLOYEE OF THE YEAR**

WHEREAS JESSICA YEE, a Mechanical Engineer III in the Plant Operations Branch of the Water System Operations Division, has served with exceptional dedication and performance since joining the Board of Water Supply (BWS) in 2015, and has been selected as the 2025 BWS Employee of the Year; and

WHEREAS MS. YEE has consistently taken on responsibilities far beyond her role and is recognized for her reliability and positive attitude over nine years of service, always rising to meet urgent and complex challenges with professionalism and resolve; and

WHEREAS MS. YEE played a key role in managing the emergency replacement of a failed pump at the Mililani Wells IV facility, restoring water to the Mililani Mauka community, and is actively working to enhance system redundancy with additional upgrades; and

WHEREAS MS. YEE regularly collaborates across divisions, including Capital Projects, Water Resources, Water Quality, and Field Operations, to ensure coordinated and effective solutions for the BWS water system; and

WHEREAS MS. YEE has led the coordination of Distribution System Operator (DSO) training, tracked staff progress, and assisted them with preparing for certification exams, demonstrating her commitment to workforce development and continuous learning; and

WHEREAS MS. YEE has also given back to the waterworks community through her volunteer work managing the annual BWS Beretania Christmas light display and organizing the Top Ops competition at the Pacific Water Conference; and

WHEREAS the nomination of MS. YEE acknowledges her outstanding dedication, technical excellence, and contributions that uphold the mission of the BWS and reflect great credit upon herself and the Department; now, therefore

BE IT RESOLVED by the Members of the Board of Water Supply, City and County of Honolulu, that we do hereby express to JESSICA YEE our sincere appreciation for her outstanding service to the Department and to the City and County of Honolulu; and

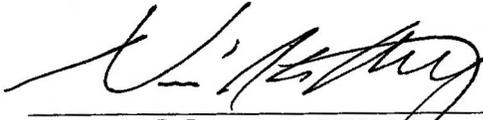
BE IT FURTHER RESOLVED that the Members of this Board express to JESSICA YEE our sincere congratulations upon her selection as the Board of Water Supply Employee of the Year for 2025; and

BE IT FINALLY RESOLVED that this Resolution be presented to MS. YEE with our heartfelt aloha and best wishes for continued success in all her future endeavors.



Resolution No. 1003, 2025

Adopted this 22nd day of September 2025
Board of Water Supply, Honolulu, Hawai'i



NĀ'ĀLEHU ANTHONY
Chair of the Board

“September 22, 2025

ADOPTION OF
RESOLUTION
NO. 1004, 2025,
WAYNE TELLO,
2025 EMPLOYEE
OF THE YEAR

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 1004, 2025,
Wayne Tello, 2025 Employee of the Year

We are pleased to announce that a 2025 Employee of the Year for the Board of Water Supply is Mr. Wayne Tello. He is the Interim Program Administrator for the Field Operations Division.

We recommend the adoption of Resolution No. 1004, 2025, to honor Mr. Wayne Tello for his outstanding service, contributions, and dedication to the Board of Water Supply.

Respectfully Submitted,

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

Attachment”

DISCUSSION:

Nā'lehu Anthony, Chair, Board of Directors, and Ernest Lau, Manager and Chief Engineer of the Honolulu Board of Water Supply, gave the report.

Although Mr. Wayne Tello was unable to receive his resolution and recognition at the Board meeting in person, Chair Anthony thanked him for his service.

Vice Chair Jonathan Kaneshiro congratulated all three honoree's, Mr. Chun, Ms. Yee, and Mr. Tello, for all their service, loyalty, and accomplishments at the BWS.

Chair Anthony echoed Vice Chair Kaneshiro's comments and recognized all honoree's for their years of service in keeping our water safe, clean, and accessible.

MOTION
TO APPROVE

Gene Albano and Jonathan Kaneshiro motioned and seconded, respectively, the Adoption of Resolution No. 1004, 2025, Wayne Tello, 2025 Employee of the Year.

Ms. Cruz-Achui conducted a roll call: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achui announced that the motion passed with four ayes. Board Members Lance Wilhelm and Edwin Sniffen were absent.

ADOPTION OF RESOLUTION NO. 1004, 2025, WAYNE TELLO, 2025 MANAGER OF THE YEAR, WAS ADOPTED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



**BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU**

RESOLUTION NO. 1004, 2025

**WAYNE TELLO
2025 EMPLOYEE OF THE YEAR**

WHEREAS, Wayne Tello, Water Service Superintendent in Field Operations Division, has been selected as the Board of Water Supply's (BWS) Employee of the Year for 2025; and

WHEREAS, Mr. Tello has dedicated more than five decades of distinguished and remarkable service to the BWS, beginning his career in 1972 as a Pipefitter Helper and rising through the ranks to leadership, where his calm judgment and technical expertise have been instrumental in providing reliable water service to nearly one million residents on Oahu; and

WHEREAS, throughout his career, Mr. Tello has been instrumental in addressing main breaks of every scale—from complex 42-inch transmission mains to smaller but urgent service line leaks. His willingness to act quickly under pressure has prevented extended water disruptions and ensured reliable service for residents and businesses across O'ahu; and

WHEREAS, his steadfast leadership, tireless pursuit of solutions, and unshakable composure during critical water emergencies have earned him the respect of BWS personnel at every level, while his influence as a mentor has shaped generations of pipefitters and supervisors, instilling a culture of safety, professionalism, and pride; and

WHEREAS, Mr. Tello has also demonstrated forward-thinking leadership and innovative practices, such as the use of couplings for concrete cylinder repairs — an initiative that improved efficiency, reduced costs, and strengthened the long-term resilience of O'ahu's water infrastructure; and

WHEREAS, in recognition of his extraordinary service and leadership, Mr. Tello has been named the 2025 Board of Water Supply Employee of the Year and will go on to represent the Board of Water Supply in the upcoming City Employee of the Year Recognition Ceremony, bringing pride and honor to the Department, his family, and friends; and now, therefore

BE IT RESOLVED by the Members of the Board of Water Supply, City and County of Honolulu, that we hereby do express to Wayne Tello our heartfelt appreciation for his exemplary service to the Department and to the City and County of Honolulu; and

BE IT FURTHER RESOLVED that the Members of this Board express our sincere congratulations upon his selection as the Board of Water Supply Employee of the Year for 2025; and

BE IT FINALLY RESOLVED that a copy of this Resolution be presented to Mr. Tello with our warmest aloha and best wishes for all his future endeavors.



Resolution No. 1004, 2025

Adopted this 22nd day of September 2025
Board of Water Supply, Honolulu, Hawai'i



NĀ'ĀLEHU ANTHONY
Chair of the Board

"September 22, 2025

ADOPTION OF
RESOLUTION
NO. 1005, 2025,
REIMBURSEMENT
OF CAPITAL
EXPENDITURES
FROM THE
PROCEEDS OF
INDEBTEDNESS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Adoption of Resolution No. 1005, 2025, Reimbursement of
Capital Expenditures from the Proceeds of Indebtedness

We recommend the adoption of Resolution No. 1005, 2025, Declaring the Official Intent of the Board of Water Supply of the City and County of Honolulu to Reimburse Itself for Certain Capital Expenditures from the Proceeds of Indebtedness.

The Resolution establishes the time limit for reimbursement of capital expenditures at eighteen months. This brings the Board of Water Supply into compliance with Section 1.150 of the U. S. Treasury Regulations and does not bind the Board to make any expenditure, incur any indebtedness, or proceed with the Project.

The Resolution establishes a limit of \$283,327,500 and attaches the FY 2026 Capital Improvement Program.

Respectfully Submitted,

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

Attachment"

DISCUSSION:

Leanne Matsumoto, Waterworks Controller, Finance Division, gave the report.

Vice Chair Kaneshiro inquired if the annual Adoption of the Resolution for the Reimbursement of Capital Expenditures from the Proceeds of Indebtedness allows the BWS to converge.

Ms. Leanne Matsumoto replied that the resolution authorizes the BWS to converge when the BWS issues bonds.

Vice Chair Kaneshiro asked if Resolution No. 1005, 2025, is specifically related to the Kalaeloa Desalination Project.

Ms. Matsumoto responded that if Resolution No. 1005, 2025 is approved, it can be implemented in the event of an issue with the Kalaeloa Desalination Project. She explained that the Kalaeloa Desalination Project was included in Fiscal Year 2026 using Water Infrastructure

Finance and Innovation Act (WIFIA) funds. However, if the WIFIA funds are not executed immediately, the BWS will require additional funds and may need to use cash.

Vice Chair Kaneshiro inquired why the Kalaeloa Desalination Project was capped in Fiscal Year 2025's Capital Expenditure.

Ms. Matsumoto replied that the Kalaeloa Desalination Project was capped in the Fiscal Year 2026 Capital Improvement Projects (CIPs) budget.

Vice Chair Kaneshiro asked if the reimbursement of capital expenditures for the next fiscal year would change depending on the needs.

Manager Lau responded that each year, a new resolution would be brought before the Board to make any changes to the CIP budget for Fiscal Year 2027. This type of resolution provides the BWS with an additional tool and option.

**MOTION
TO APPROVE**

Jonathan Kaneshiro and Bryan Andaya motioned and seconded, respectively, the Adoption of Resolution No. 1005, 2025, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness.

Ms. Cruz-Achui conducted a roll call: Vice Chair Jonathan Kaneshiro, aye; Board Member Bryan Andaya, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achui announced that the motion passed with four ayes. Board Members Lance Wilhelm and Edwin Sniffen were absent.

ADOPTION OF RESOLUTION NO. 1005, 2025, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS WAS ADOPTED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 1005, 2025

**A RESOLUTION DECLARING THE OFFICIAL INTENT OF THE
BOARD OF WATER SUPPLY OF THE CITY AND COUNTY
OF HONOLULU TO REIMBURSE ITSELF FOR CERTAIN CAPITAL
EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS**

WHEREAS, the Board intends to provide for the acquisition, construction, rehabilitation and/or equipping of certain capital facilities for the Board constituting water system facilities and other capital improvements for the use and benefit of the Board comprising improvements related to the FY 2026 Capital Improvement Program and other related facilities, including without limitation the Kalaeloa Sea Water Desalination Facility (collectively, the "Project"); and

WHEREAS, the Board expects to pay certain expenditures (the "Reimbursement Expenditures") in connection with the Project prior to the issuance of indebtedness for the purpose of financing costs associated with the Project on a long-term basis; and

WHEREAS, the Board reasonably expects that debt obligations for the Project in an amount not expected to exceed \$283,327,500 will be issued and that certain of the proceeds of such debt obligations will be used to reimburse the Reimbursement Expenditures; and

WHEREAS, proceeds of such debt obligations will be allocated to Reimbursement Expenditures no later than 18 months after the later of (i) the date the cost is paid, or (ii) the date the Project is placed in service or abandoned (but in no event more than three years after the cost is paid); and

WHEREAS, the Board may issue debt obligations for the Project in connection with obligations for other projects;

BE IT RESOLVED by the Board of Water Supply of the City and County of Honolulu, Hawaii, as follows:

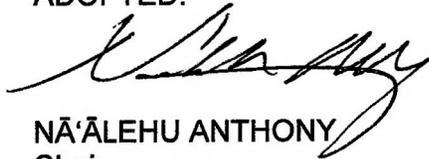
1. It is hereby found and determined that it is the intent of the Board that bonds be authorized and issued by the Board to provide monies to carry out one or more purposes of the Board, including the acquisition and construction of improvements to the water system of the Board as specified in Schedule I attached hereto.

2. This declaration is made solely for purposes of establishing compliance with the requirements of Section 1.150 2 of the Treasury Regulations, and this declaration does not bind the Board to make any expenditure, incur any indebtedness, or proceed with the Project.

3. The Board hereby declares its official intent to use proceeds of the indebtedness to reimburse itself for the Reimbursement Expenditures after adoption of this resolution.

4. This resolution shall take effect upon the adoption thereof.

ADOPTED:



NĀ'ĀLEHU ANTHONY
Chair

Honolulu, Hawai'i
September 22, 2025

ADOPTION OF RESOLUTION NO. 1005, 2025, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS WAS ADOPTED AT THE SEPTEMBER 22, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM			ABSENT
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

ITEM FOR INFORMATION NO. 1.

“September 22, 2025

UPDATE ON
THE BOARD OF
WATER SUPPLY'S
RESPONSE TO
THE POTENTIAL
IMPACTS OF
RED HILL FUEL
CONTAMINATION

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination

Joyce Lin, Acting Departmental Staff Executive Assistant, Office of the Manager and Chief Engineer, will give an Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Joyce Lin, Acting Departmental Staff Executive Assistant, Office of the Manager and Chief Engineer, gave the report. There were no comments or discussion.

Manager Lau referred to slide three and stated that the BWS is seeking clarification from the Navy on the gallons of residual fuel removed.

UPDATES FROM NAVY CLOSURE TASK FORCE-RED HILL

SLUDGE AND RESIDUAL FUEL REMOVAL
*As of August 11, 2020
00000.0
*As of September 4, 2025
00329.0

TANK RESIDUAL FUEL AND SLUDGE REMOVAL
*As of September 10, 2025
00361.0

GALLONS OF RESIDUAL FUEL REMOVED FROM TANKS
01572.2

GALLONS OF SLUDGE REMOVED FROM TANKS
00361.0

Sludge is removed by lowering personnel to the bottom of the tank where it is manually scooped out and put into drums. The drums are sealed and sent off the to and for disposal at a permitted waste disposal facility on the overseas U.S.

***This report as of September 10, 2025**

1 Step 1 - Preparation (Approx. 2-3 full tanks)

- Remove tank and equipment clearing
- Install tank level gauges, ventilation and float outlet to surface sludge
- Remove sludge sludge
- Single tank ventilation with "forced air"

2 Step 2 - Remove Fuel Oil Sludge (Approx. 2-3 months)

- Install a 1/2" copper screen, "over" and "under"
- Install center beam structure and test tower and operate
- Remove fuel sludge

3 Step 3 - Remove Sludge (Approx. 1-2 months)

- Use the personnel and pump system
- Remove sludge with pump through sludge
- Sludge collection - containing fuel oil
- Use 1/2" copper screen, install sludge collection tank
- Remove sludge from tank to prevent fuel tank to stop

4 Step 4 - Tank Demobilization (Approx. 1-2 Months)

- Remove sludge and fill with air
- Install air treatment inside ship "deck" at the entrance

Back link: [https://www.watermainline.com/...](#)

Chair Anthony requested that in the upcoming Red Hill updates, any changes in contaminants found in BWS wells be reported.

There was written testimony submitted:

Meredith Wilson	<i>Submitted written testimony that included multiple questions.</i>
------------------------	--

There was in-person testimony submitted:

Susan Pcola-Davis	<i>Congratulated Manager Lau, and Ms. Lin as members of the Restoration Advisory Board. Shared her views on the article published on September 19, 2025, in Civil Beat by Christina Jedra, and the two civilians who were indicted. She also shared that the House of Representatives' Special Committee on Red Hill Information Briefing is scheduled for October 2, 2025, and a Red Hill webinar is set for September 24, 2025. Provided a 9-page attachment.</i>
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SEPTEMBER 2025 RED HILL UPDATES

September 22, 2025
boardofwatersupply.com

RECENT EVENTS

August 27

- Pearl Harbor –Hickam – Kalaeloa Restoration Advisory Board Meeting

August 28

- Community Representation Initiative Meeting

August 29

- Indictment of two civilian workers of Navy Supply Systems

Federal grand jury indicts two civilian workers over Red Hill disaster

ORIGINAL

UNITED STATES DISTRICT COURT
DISTRICT OF HAWAII

AUG 28 2025
Lary H. Smith, Clerk

KENNETH M. SORENSON
Acting United States Attorney
District of Hawaii

CRAIG S. NOLAN
Assistant U.S. Attorney
Room 4100, FBIK Federal Building
300 Ala Moana Blvd.
Honolulu, Hawaii 96850
Telephone: (808) 541-2400
Facsimile: (808) 541-2950
Email: Craig.Nolan@usdoj.gov

IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF HAWAII

UNITED STATES OF AMERICA,) CASE NO. CR25-00085 JAO
Plaintiff,) INDICTMENT
)
vs.) [18 U.S.C. §§ 371, 1001, and 205]
JOHN FLOYD and)
NELSON WU,) (1)
Defendants.) (2)

INDICTMENT

The Grand Jury charges:

John Floyd and Nelson Wu, civilian workers for Navy Supply Systems, are accused of conspiracy and making false statements about the May 2021 Red Hill fuel leak.

By Lynn Kawano and Mahealani Richardson



UPDATES FROM NAVY CLOSURE TASK FORCE –RED HILL

SLUDGE AND RESIDUAL FUEL REMOVAL

0 2 5 0 2 . 0

GALLONS RESIDUAL FUEL REMOVED

**As of August 12, 2025*

0 0 3 2 3 . 0

GALLONS SLUDGE REMOVED

Sludge is removed by lowering personnel to the tank where it is manually shoveled out and drums. The drums are sealed and sent off the island for disposal at a permitted waste disposal facility on the continental U.S.

TANK SLUDGE AND RESIDUAL FUEL REMOVAL

0 1 5 2 7 . 0

GALLONS OF RESIDUAL FUEL REMOVED FROM TANKS

**As of September 8, 2025*

0 0 3 2 3 . 0

Sludge is removed by lowering personnel to the bottom of the tank where it is manually shoveled out and put into drums. The drums are sealed and sent off the island for disposal at a permitted waste disposal facility on the continental U.S.

TANK RESIDUAL FUEL AND SLUDGE REMOVAL

0 1 5 2 7 . 0

GALLONS OF RESIDUAL FUEL REMOVED FROM TANKS

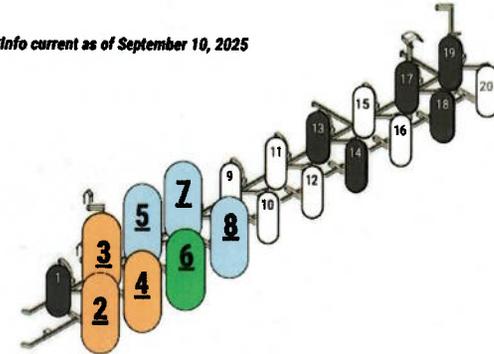
**As of September 10, 2025*

0 0 3 6 1 . 0

GALLONS OF SLUDGE REMOVED FROM TANKS

Sludge is removed by lowering personnel to the bottom of the tank where it is manually shoveled out and put into drums. The drums are sealed and sent off the island for disposal at a permitted waste disposal facility on the continental U.S.

**Info current as of September 10, 2025*



- ❑ **Step 1 – Preparation (Approx. 2-3 months):**
 - Isolate tank and disconnect piping
 - Install tank ventilation equipment and inject water to soften sludge
 - Remove flowable sludge
 - Begin tank ventilation with forced air

- ❑ **Step 2 – Remove Solid Sludge (Approx. 2-3 months):**
 - Inspect and repair central tower and catwalk
 - Install center tower elevator; load test tower and catwalk
 - Remove solid sludge

- ❑ **Step 3 – Pressure Washing (Approx. 1-2 months):**
 - Set up pressure washing system and
 - Pressure wash with 3% Simple Green
 - Rinse, continuously removing rinsate
 - Dry tank interior and validate cleanliness; submit cleaning report
 - Receive regulatory agency final approval that tank is clean

- ❑ **Step 4 – Tank Decommission (Approx. 1-2 Months):**
 - Remove booms and infrastructure
 - Install permanent lockable steel hatch at the entrance

Black tanks were empty and out of service prior to defueling.



UPCOMING EVENTS

September 24th

- BWS Monitoring Well Community Meeting
6PM at the Aiea Public Library at 99-374 Pohai Place

October 1st

- Fuel Tank Advisory Committee Meeting
1-5PM at the State Capitol Auditorium





MAHALO!

Providing safe, dependable, and affordable drinking water, now and into the future.

September 2025 Red Hill Updates

Meredith Wilson
BWS Written Testimony - 9/22/2025
Item for Information #1: Impacts of Red Hill

Aloha Board,

I appreciate Manager Lau's reply via email to my written testimony from July. Unlike the Navy, BWS properly & timely follows through on its word in following up with the public.

I'm thankful that BWS provided comment on the Navy's recent Draft Environmental Assessment for the Red Hill Shaft reactivation. It is interesting, to say the least, that the mere proposal of these massive water treatment facilities acknowledges that even though fuel has mostly been removed, there is still the recognition that there are contaminants in the groundwater below Red Hill.

Has BWS communicated its concerns directly with EPA and/or HDOH regarding the reactivation of both the Navy's Aiea-Halawa Shaft and Red Hill Shaft? And if so, what were the outcomes of those discussions?

What assurances does BWS have that potentially contaminated groundwater won't be pulled into their wells' direction still without the Navy providing an approved groundwater flow model?

The EPA, in their own Draft EA comments, notes that, "*the new permanent water treatment facility needs to consider the potential contamination of jet fuel and petroleum hydrocarbons which are not fully captured by existing National Primary Drinking Water Regulations and HDOH standards.*"

EPA must REQUIRE what they think the Navy should test for instead of hoping they'll do the right thing. Clearly, history has shown us that if the Navy isn't required to do something, they absolutely will not do it.

I lastly wanted to say a big thank you to Ernie for providing an excellent presentation during the August 7th webinar to the National Academies Committee on water protection. Manager Lau's vast knowledge of the issue, passion for public service, & level of the highest integrity shines to all newcomers to the Red Hill problem set. Thank you sir for taking the time out of your very busy day to share all the relevant nuances that this Committee should know and care about.

Mahalo for all the Board's continuing work on ensuring water is as pure as possible for current and future generations,

-Meredith Wilson



DEPARTMENT OF HEALTH

DAVID Y. IGE
GOVERNOR

ELIZABETH A. CHAR, MD
DIRECTOR

FOR IMMEDIATE RELEASE

December 8, 2021

21-174

Petroleum contamination reported in Navy's Aiea Halawa shaft

HONOLULU – Diesel fuel levels more than double the Hawaii Department of Health (DOH) limits for drinking water were reported by the Navy today in water samples collected at the Navy's Aiea Halawa Shaft. The shaft is one of three ground water sources that provides drinking water to the Joint Base Pearl Harbor-Hickam (JBPHH) water system.

The Navy reported that the sample was drawn on Sunday, December 5. The Navy's Aiea Halawa Shaft and the Honolulu Board of Water Supply's Halawa Shaft are different water systems. The Board of Water Supply's Halawa Shaft is located approximately 1.5 miles northeast of the Navy's Aiea Halawa shaft. The Navy reported to DOH that its Aiea Halawa shaft has been offline since Friday, December 3.

"The level of this contaminant poses a public health threat, and is considered unsafe to drink," said Kathleen Ho, Deputy Director for Environmental Health. "This news is concerning—especially as the cause of the petroleum release into the Navy's water system remains unknown. We will continue to take all possible action to protect public health and the environment."

A level of 920 parts per billion (ppb) of total petroleum hydrocarbons diesel range organics (TPH-d) was reported by the Navy. The DOH Environmental Action Level (EAL) for TPH-d is 400 ppb. An EAL is a risk-based level below which no human health effects are expected. DOH staff will collect samples from the Aiea Halawa shaft Thursday.

DOH recommends all Navy water system users should avoid using the water for drinking, cooking, or oral hygiene. This includes consumption by pets. Navy water system users who detect a fuel-like odor from their water should also avoid using the water for bathing, dishwashing or laundry. This recommendation applies to users of the Navy's Joint Base Pearl



DEPARTMENT OF HEALTH

DAVID Y. IGE
GOVERNOR

ELIZABETH A. CHAR, MD
DIRECTOR

FOR IMMEDIATE RELEASE

December 10, 2021

21-177

Hawai'i Department of Health confirms high levels of petroleum contamination in Navy's Red Hill Shaft

Trace contamination detected at Aliamanu Child Development Center, private residences

HONOLULU – Samples collected from the Navy's Red Hill drinking water shaft on Sunday December 5 tested positive for high levels of gasoline and diesel range hydrocarbons. This is consistent with visual observations and odors detected by Hawai'i Department of Health (DOH) staff when the samples were collected.

DOH received the detailed lab reports late last night. The reports were immediately analyzed by DOH staff.

Samples from the Navy's Red Hill Shaft contained total petroleum hydrocarbons diesel range organics (TPH-d) 350 times the DOH Environmental Action Level (EAL) for drinking water. The Red Hill Shaft samples also tested positive for gasoline range organics more than 66 times the DOH EAL.

The DOH samples were analyzed by Eurofins Laboratory in California. Eurofins found 140,000 parts per billion (ppb) of TPH-d. The DOH EAL for TPH-d is 400 ppb. Eurofins found total petroleum hydrocarbons gasoline range organics (TPH-g) at 20,000 ppb. The EAL for TPH-g is 300 ppb.

[Click here to download laboratory results from the Navy's Red Hill Shaft.](#)

Trace levels of petroleum were also found in samples collected at the Aliamanu Child Development Center and private residences on the Navy's water system.



RED HILL BULK FUEL STORAGE FACILITY

Tank Closure Plan

November 1, 2022

Office of the Secretary of the Navy



Navy Closure Task Force

Draft

**Tank Closure Plan, Supplement 3:
Phase 1 Site Assessment
Red Hill Bulk Fuel Storage Facility
JOINT BASE PEARL HARBOR HICKAM OAHU HI**

June 2024

DISTRIBUTION STATEMENT A - Approved for public release; distribution unlimited

release of approximately 14,000 gallons of a mix of water and fuel from a fire suppression drain line in the tunnel downhill of the USTs (DOH 2021, Background).

Released fuel flowed westward along the Adit 3 Tunnel floor past the junction with the Pearl Harbor Tunnel and RHS. Fuel accumulated in two sumps (Adit 3 Sump and a sanitary sewer sump) approximately 750 ft west of the November 2021 release point (Figure 9). JP-5 fuel was recovered from the Adit 3 Sump, connected piping, the fire suppression recovery drain line, and the Holding Tank/Leach Tank area including subsurface soil. JP-5 fuel was also recovered from the sanitary sewer sump and the CHT Tank, which was fed by a pump in the sanitary sewer sump.

The November 2021 release released fuel to the environment via the following pathways:

- Natural and manmade penetrations through the concrete tunnel floor.
- Fuel that accumulated in the Adit 3 sanitary sewer sump was inadvertently pumped to the CHT Tank (see Section 10.2.1.9 for description). The fuel overflowed from the CHT Tank to the surrounding environment during heavy rains in December 2021 and January 2022.
- Fuel also likely back-flowed from the Adit 3 sump into a subfloor Hume pipe drainage system and associated utility corridor (Figure 9). The fuel may have then entered the environment through Hume pipe drainage system.
- Fuel that accumulated in the Adit 3 sump was inadvertently pumped to the Former Holding Tank and Leach Tank (see Section 10.2.1.8 for description), where it seeped into the subsurface leach field adjacent to the Leach Tank.

Fuel was also observed in the RHS water development tunnel. Upon confirmation that a fuel-like odor was present in drinking water in homes served by RHS, the supply well was shut off and isolated from the JBPHH Water Distribution System on November 28, 2021. The Navy initiated quarterly release response reports to DOH in March 2022 (DON 2022a).

It was later determined that the released JP-5 was inadvertently pumped into this overhead fire suppression drain pipeline during the May 2021 release (Section 10.3.3).

10.3.3 LAT Pipeline Breach JP-5 Release, May 2021

On May 6, 2021, Navy personnel responded to a reported release of fuel from a distribution pipeline inside the LAT in the vicinity of Tanks 17, 18, 19, and 20 (Figure 8). The Navy notified DOH of the release within 24 hours of the event and provided DOH preliminary findings of the ongoing investigation on October 1, 2021, indicating that JP-5 fuel was released during a fuel transfer and that there were no leaks from any fuel tanks. The Navy recovered JP-5 fuel from the tunnel drain system and then performed a complete wash down of the area with fresh water on May 7, 2021 (DON 2021c). It was later determined that some below-tank soil vapor monitoring point (SVMP) vaults on the tunnel floor near the May 2021 release affecting the utility of these SVMPs for identifying releases from their associated USTs. The Navy initiated quarterly release response reports to DOH in September 2021 (DON 2021a).²

² Quarterly release response reports to DOH for the May and November 2021 Releases were merged starting with the July 7, 2022 quarterly report (DON 2022c).

Red Hill

Red Hill Victims Claim Navy Destroyed Evidence In Fuel Contamination Crisis

Families who drank tainted water on Oahu were not informed that the Navy was sitting on the key proof, their lawyers allege. Now it is too late.

By Christine Jacobo / September 18, 2025

Share Article

The U.S. Navy had samples of the fuel that contaminated Pearl Harbor's drinking water in 2021 but withheld that information from the impacted families who could've used the evidence in lawsuits against the federal government, plaintiffs' attorneys allege.

Now, it's too late: The samples from the Navy's Red Hill storage complex have since been contaminated and are expired, according to attorneys for two victims who filed [a motion for sanctions](#) this week.

"Through USA's reckless and intentional failure to properly collect and preserve this material," the filing states, "the evidence was destroyed."



Source of Information

TABLE OF CONTENTS

These are the pages I was referencing during my September 22, 2025 testimony at the Board of Water Supply Director’s Meeting.

All information is publicly available from Civil Beat article of September 19, 2025.

Page Numbers (located bottom right)	Description
1-3	Motion for Spoilation and Hearing Request Source: Civil Beast, September 19, 2025 Red Hill Victims Claim Navy Destroyed Evidence In Fuel Contamination Crisis
3	Indicates that the USA Knew It Had Relevant Evidence But Failed to Disclose It.
4	List of Exhibits {I have not included all}
5	Background Information leading to this Motion
6	Quote, “It appears to be the best...water system in 2021.” Quote, “...we will document the process....anti-freeze in the original spill.” Note: Antifreeze is an additive to JP5 used for de-icing, AKA DIEGME
7	Quote from Guy Freason, an employee of AECOM... “we will not be collecting sample [sic] directly from the AFFF retention line as requested in the EPA correspondence.”
8-9	Timeline of relevant events
10	EXHIBIT 2
11	February 6, 2024 Letter from EPA to Vice Admiral Wade and Rear Admiral Barnett. Clarification of a request from EPA regarding Fuel Samples from AFFF Retention Line during the Senior Executive meeting on Friday, February 2, 2024.
12	Letter continued
13	EXHIBIT 3
14-16	A series of emails back and forth. Note: to read the emails in order start from page 16 and go backwards.

	Although some do seem to be out of order. Be cognizant of that.
14	LCDR Meyers directs a completely different sample collection method. Bullet 3
15	Stephen Chow; February 6 at 2:59: Explicit directions for collecting these samples
17	Exhibit 4
18-19	Guy Freason has various emails regarding the samples to be collected dated February 6 (1:06 pm) - February 7 (6:02 pm).
19	Guy Freason specifically directs that the samples will not be collected as specified in the EPA letter February 6 (6:57 pm)
20	EXHIBIT 5
21-22	A series of emails back and forth. Note: to read the emails in order start from page 22 and go backwards.
	These emails are starting on February 7 (10:47 am) through February 8 (4:59 pm)
23	EXHIBIT 11
24-26	March 18, 2024 Letter from EPA to Brigadier General Link. Interim Defueling Completion Inspection to evaluate the status of the remaining fuel in the facility and reported by Joint Task Force Red Hill.
26	Defueling Plan Supplement 3: Clarification that this remaining fuel will be removed by Navy Closure Task Force-Red Hill as part of facility closure.
27	EXHIBIT 12
28	June 21, 2024 Letter from Karnig Ohannessian, Deputy Assistant Secretary of the Navy to Martha Guzman, EPA Regional Administrator. Paragraph 1 last sentence regarding sample collection from the retention line.
29	Paragraph 2 sentence 1: Seems to confuse PFAS sample collection and Fuel sample collection from AFFF retention line.
30	Found on EPA website during my own research and is NOT an exhibit in this motion.

30-31	<p>July 19, 2024 Letter from Claire Trombadore, Director EPA to Karnig Ohannessian, Deputy Assistant Secretary of the Navy. Sections are notated for their importance. My note: Does this mean the samples were or were not collected?</p>
32	EXHIBIT 14
33	<p>January 2, 2025 Email from Department of Justice Torts Branch to Chris Nidel Plaintiffs' lawyer. Confirmation that samples have been retained.</p>
34	EXHIBIT 16 is related to Exhibit 2
35-36	<p>February 6, 2024 Letter from Vice Admiral Wade to Claire Tromadore, Director EPA. Response to February 6, 2024 regarding thr request for fuel samples from the AFFF Retention Line. Related to Exhibit 2 page 11</p>

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Attorneys for Plaintiffs

IN THE UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF HAWAII

ARIANA WYATT, et al.,

Plaintiffs,

v.

THE UNITED STATES OF
AMERICA,

Defendant.

Case No. 1:23-cv-00065-LEK-KJM

PLAINTIFFS' MOTION FOR
SANCTIONS FOR SPOILATION OF
EVIDENCE; MEMORANDUM IN
SUPPORT OF MOTION;
DECLARATION OF COUNSEL;
EXHIBITS "1" - "17"; CERTIFICATE
OF SERVICE

Trial Date: July 7, 2026

Judge: The Hon. Leslie E. Kobayashi

Hearing Requested Under L.R. 7.1(c)

PLAINTIFFS' MOTION FOR SANCTIONS FOR SPOILIATION OF EVIDENCE

Plaintiffs hereby move this Court under Federal Rules of Civil Procedure Rule 37(b) and (c), Local Rules 7.1, 7.2, 26.1, 37.1, and this Court's inherent authority, for sanctions against Defendant for spoliation of evidence. Plaintiffs respectfully request that this Court:

1. Issue an adverse inference instruction that contaminants released in May and November of 2021 were capable of causing and did in fact cause Plaintiffs' injuries;
2. Impose monetary sanctions, including attorneys' fees and costs associated with investigating the spoliation, engaging in discovery, and this motion;
3. Order such further relief as the Court deems just and appropriate.

Plaintiffs respectfully request that this Court set this Motion for hearing pursuant to Local Rule 7.1(c). A hearing on this Motion would allow the parties to answer any additional questions the Court may have on these complicated facts and issues. This motion is based on the accompanying memorandum of law, the record in this case, the Declaration of Counsel, and any oral argument the Court

permits. A meet and confer was held pursuant to L.R. 37.1 and Fed. R. Civ. P. 26(f).

The parties were unable to resolve this issue informally.

Respectfully submitted,

/s/ Alyssa R. Segawa

L. RICHARD DeROBERTIS

ILANA K. WAXMAN

ALLISON M. AOKI

ALYSSA R. SEGAWA

CHRISTOPHER L. JOHNSON

/s/ Jonathan Nace

JONATHAN B. NACE (*pro hac vice*)

CHRISTOPHER T. NIDEL (*pro hac vice*)

ZACHARY A. KELSAY (*pro hac vice*)

Counsel for Plaintiffs

EXHIBITS



Ex. 1	Excerpts of the 30(b)(6) Deposition of USA through Michael Klapac, July 16, 2025.
Ex. 2	Letter from Claire Trombadore, EPA Region 9 to Vice Admiral John F. Wade, Feb. 6, 2024, US_RHFTCA_SERIES2_14895251.
Ex. 3	Emails among Navy personnel, Feb. 7, 2024, US_RHFTCA_SERIES2_14962041.
Ex. 4	Emails among Navy personnel, Feb. 7, 2024, US_RHFTCA_SERIES2_14962017.
Ex. 5	Emails among Navy personnel, Feb. 8, 2024, US_RHFTCA_SERIES2_14962028.
Ex. 6	AECOM Technical Report Drum Sampling, October 10, 2023, US_RHFTCA_SERIES2_13646763.
Ex. 7	AECOM Technical Report Drum Sampling, October 19, 2023, US_RHFTCA_SERIES2_13648462.
Ex. 8	Excerpts of the 30(b)(6) Deposition of USA through Sherri Eng, May 13, 2025.
Ex. 9	Excerpts of the Deposition of Jeff Johnson, June 5, 2025.
Ex. 10	Excerpts of the Deposition of Dayna Yoshizaki, August 1, 2025.
Ex. 11	Letter from James Marincola, EPA Region 9 to Brigadier General M. Link, Mar. 18, 2024, US_RHFTCA_SERIES2_14914449.
Ex. 12	Letter from Karnig Ohannessian to EPA Regional Administrator, Martha Guzman, June 21, 2024, US_RHFTCA_SERIES2_14924678.
Ex. 13	Excerpts from the Deposition of Sherri Eng (as fact witness), May 14, 2025.
Ex. 14	Letter from Eric Rey to Christopher Nidel, Jan. 2, 2025.
Ex. 15	Letter from Eric Rey to Zachary Kelsay, July 15, 2025.
Ex. 16	Letter from Vice Admiral John Wade to Director Claire Trombadore, Feb. 9, 2024, US_RHFTCA_SERIES2_14919315.
Ex. 17	<i>Plaintiffs' Requests for Production of Documents to the United States of America, served on May 19, 2023.</i>

as well as monetary sanctions for the costs of addressing this spoliation and to deter this conduct.

II. BACKGROUND

A. USA Knew It Had Relevant Evidence But Failed to Disclose It

USA has known of the existence of material still within the AFFF Retention Line (“the Line”) since immediately after the November 2021 release. Ex. 1 at 107:17–25. Despite this knowledge, USA never disclosed its existence to Plaintiffs.

Even if it was not manifestly clear to USA immediately after the November spill that it continued to have this material in its control, USA drained and collected this material on two discrete occasions during the pendency of this litigation, never once notifying Plaintiffs. During August and September of 2023, USA had its consultants partially drain portions of the Line, collect the material into drums, and take samples from those drums. See Ex. 1 at 92:2-97:7; 233:18-21; 235:13-236:20.

Less than a year later, on January 31, 2024, the EPA was conducting a site survey of the Red Hill Facility as part of its investigation related to the November 2022 PFAS spill at the facility. During this investigation, the EPA discovered that the Line still contained fluid from the November 2021 spill. EPA pointed out to the Navy that the residual fuel would be “important to fully characterize” as it could be “very likely representative of the November 2021 release.” Ex. 2.

Consistent with EPA's position on this material, internal Navy emails demonstrate USA knew that sampling of this AFFF line was highly relevant to the pending litigation. On February 6, 2024, Steven Chow emailed others on the Red Hill sampling team stating that "The samples are not necessarily for PFAS. It's to preserve samples for later testing. **It appears to be the best sample of the fuel that contaminated the JBPHH water system in 2021.**" Ex. 3 (emphasis added).

USA also specifically knew this material was critical for victim's health claims, including those hundreds of claims in active litigation. On February 8, 2024, the Deputy Commander for Joint Task Force Red Hill sent an email to Navy personnel:

...we will document the process and note the chain of custody in anticipation of future litigation discovery ... we know that samples from the original spill may not have been taken - or are no longer available. We also know that the community has long alleged the presence of anti-freeze in the original spill ...

Ex. 5 (emphasis added). However, USA again failed to mention any of this to any coordinated counsel, depriving plaintiffs and their experts of the ability to observe the draining, enforce appropriate protocols, and take split samples to be reliably analyzed at their own choice of lab for the appropriate analyses that would best inform the Court on causation.

The bottom line is that USA knew it had highly relevant material that it was told to preserve and to analyze. Consistent with its behavior following these two

environmental disasters, USA chose to destroy the evidence, failing to disclose its presence or documents and communications regarding its collection and sampling, recklessly, if not intentionally, handicapping Plaintiffs' ability to prove their claims. Ex. 1 at 136:1-137:17; 142:8-144:10; 254:6-24.

B. USA Contaminated, Mishandled and Allowed the Material to Expire Making Laboratory Analysis Unreliable

During both the September 2023 and February 2024 collection and sampling events USA failed to ensure that proper protocols were in place so that the fuel-water mixture collected could be reliably analyzed in the future. This is despite the ongoing litigation and clear instruction from the EPA. During the September 2023 line draining, the fuel-water mixture was drained directly into barrels provided by the contractor that was preparing the material for disposal. Ex. 1 at 92:2-97:7. No samples were collected into certified clean sample bottles directly from the Line. *Id.*

In early 2024, after having identified the drummed material collected in 2023, the EPA provided the Navy with specific instructions for extracting and preserving the residual fuel to ensure it would be preserved for reliable analysis later, including that the fuel-water mixture "should be collected **directly from each segment of the pipeline** prior to pigging and placed into four containers...." Ex. 2 (emphasis added). Despite these requests, Guy Frearson, an employee of AECOM (Navy's lead technical contractor) advised the team "we will not be collecting sample [sic] **directly from the AFFF retention line as requested in the EPA correspondence.**"

“representative,” concerns which are reflected in the letter from Deputy Assistant Secretary of the Navy, Mr. Karnig Ohannessian and includes the assertion that there are “a number of potential pathways for introduction of other materials into the fluids.” See Ex. 1 at 122:6-125:24; Exs. 13 & 14.

E. USA Also Withheld Critical Documents

Compounding USA’s failure to properly collect, preserve, and notify Plaintiffs regarding the actual material, USA has also failed to disclose related documents throughout the course of discovery. USA withheld critical and undeniably discoverable documents including letters, emails, and other documents generated in early 2024 for over a year. These were not produced until July 15, 2025, the day before Mr. Klapac’s 30(b)(6) deposition that included a topic covering USA’s collection of this material. Ex. 15.

The following summarizes the timeline of relevant events discussed above:

May 6, 2021	Portions of fuel spilt from Red Hill Tank Farm are captured by the Line. <i>CAFFF Retention Line 1</i>
Nov. 20, 2021	Fuel in the Line is released into the JBPHH water system.
Nov. 2021	USA is aware material remained in the Line. Ex. 1 at 107:17-25.
Feb. 2, 2023	The Complaint is filed in this case. ECF 1.
May 19, 2023	Plaintiffs serve Requests for Production of Documents on USA, requesting all documents regarding the presence of hazardous chemicals in the soils, air, and groundwater around the Facility or JBPHH military housing, and documents analyzing results of testing of such material. Ex. 17, ECF 34.
Jun. 8, 2023	Stipulated Order Relating to the United States’ Preservation of Samples is entered, which required USA to “notify Plaintiffs’

TIMELINE

	counsel” if USA wished to dispose of any samples not on Exhibit A. ECF 36, at ¶5.
Sept. 2023	USA drains portions of the Line, collects it into drums, and takes samples without notice to Plaintiffs; the material is placed into unclean containers. Ex. 1, at 92:2-97:7; Exs. 6-7.
Feb. 6-8, 2024	EPA instructs Navy to preserve and collect samples, describing the Line material as “very likely representative of the November 2021 release.” Ex. 2. Navy emails confirm awareness that samples are the “best sample of the fuel” and must be documented for “future litigation discovery.” Exs. 3 & 5. Despite EPA’s direction, USA again drains Line into drums, not certified containers. Ex. 4.
Mar. 18, 2024	EPA reiterates the significance of the material. Ex. 11.
Apr. 2024	<i>Feindt</i> trial begins
Jun. 21, 2024	Navy acknowledges adulteration and lack of confidence that samples represent 2021 release. Ex. 12.
Dec. 4, 2024	Plaintiffs discover existence of samples independently; notify defense counsel. Nidel Dec. ¶¶2-3.
Jan. 2, 2025	USA response to December 4 email confirming material “no longer representative.” Ex. 14.
May 7, 2025	Court issues findings of fact and conclusions of law in <i>Feindt</i>
Jul. 15, 2025	Defendant finally produces critical documents related to the samples, years after collection and days before 30(b)(6) deposition. Ex. 15.

III. LEGAL STANDARD

Under Rule 37(c), if a party fails to provide information as required by Rule 26(a) or (e) and unless the failure was substantially justified or is harmless, the Court may impose any of the sanctions identified in 37(b) and “may inform the jury of the party’s failure.” Fed. R. Civ. P. Rule 37(c)(1)(B). Under Federal Rules of Civil Procedure Rule 37(b)(2), where a party fails to obey an order to permit discovery, the Court can issue orders “directing that the matters embraced in the

EXHIBIT 2



REGION 9

SAN FRANCISCO, CA 94105

February 6, 2024



VIA ELECTRONIC MAIL ONLY

Vice Admiral John F. Wade
Commander
Joint Task Force - Red Hill
1025 Quincy Avenue, Suite 900
Joint Base Pearl Harbor Hickam, Hawaii 96860-5101
john.f.wade2.mil@us.navy.mil

Rear Admiral Stephen Barnett
Commander, Navy Region Hawai'i
850 Ticonderoga St., Ste. 110
Joint Base Pearl Harbor Hickam, HI 96860-5101
stephen.d.barnett.mil@us.navy.mil

Subject: Fuel Samples from Aqueous Film-Forming Foam Retention Line

Dear Vice Admiral Wade and Rear Admiral Barnett:



This letter provides clarification about a request that the U.S Environmental Protection Agency (EPA) made during the Senior Executive Meeting on Friday, February 2. On Wednesday, January 31, the EPA's Red Hill environmental team learned there is still some fuel remaining in the Red Hill aqueous film-forming foam (AFFF) retention line. The fuel in this AFFF retention line is very likely representative of the November 2021 release, and we believe it is important to fully characterize.

The Navy plans to begin cleaning the AFFF retention line later this week. We request that the Navy collect aliquots of the fuel prior to cleaning the line, and have a lab hold the aliquots for future analyses. The aliquots could later be used to evaluate risk from potentially unknown components of the release, including petroleum-related constituents, fuel additives, cleaning products, per- and polyfluoroalkyl substances (PFAS), and/or other unidentified chemicals.

We understand that approximately 300 gallons of fuel remain in the AFFF line, spread across several different segments. Aliquots should be collected directly from each segment of the pipeline prior to pigging and placed into four containers:

||

- One HDPE bottle,
- One Amber glass jar with Teflon liners,
- Two VOA vials

The Navy should not use buffers or preservatives in the jars, but immediately place the aliquots into a cooler with ice, chill them to 4 degrees Celsius, and send them to a laboratory. The goal is to best preserve the contents in the state they were in when they were collected from the source. The recommended sample bottles and collection methods should be sufficient to allow for a variety of analytical methods and to prevent cross contamination.

To prevent false positive PFAS results, the Navy should also follow strict PFAS sampling protocols when collecting the fuel samples, including Items 2 through 4 in *EPA Pacific Southwest (Region 9) Per- and Polyfluoroalkyl Substances (PFAS) Tribal Drinking Water Sampling Project Directions for PFAS Sample Collection* (<https://www.epa.gov/system/files/documents/2022-06/r9-tribal-drinking-water-sampling-project-directions-for-pfas-sample-collection.pdf>).

If you have any questions regarding this letter, please contact Matthew Cohen, EPA Red Hill Project Coordinator, at Cohen.Matthew@epa.gov or (415) 972-3691; or Lynn Brockway, Physical Scientist, at Brockway.Lynn@epa.gov or (808) 539-0541.

Sincerely,

CLAIRE
TROMBADORE

Digitally signed by
CLAIRE TROMBADORE
Date: 2024.02.06
14:47:40 -0800

Claire Trombadore, Director
Land, Chemicals, and Redevelopment Division

* cc by email only:

BG Michelle Link, Deputy Commander, Joint Task Force – Red Hill
RDML Marc Williams, Deputy Commander, Navy Closure Task Force – Red Hill
Sherrl Eng, Executive Director, Navy Closure Task Force – Red Hill
Milton Johnston, Environmental Director, Navy Closure Task Force – Red Hill
Joshua Stout, ACO/AOC Portfolio Manager, Navy Closure Task Force – Red Hill
Brandon Gosch, Assistant Regional Engineer, Navy Region Hawai'i
CAPT Steve Stasick, Joint Task Force – Red Hill
CAPT James Sullivan, Commanding Officer, NAVFAC Hawai'i
CDR Benjamin Dunn, Red Hill Environmental OIC, NAVFAC Hawai'i
LCDR Travis Myers, Aquifer Recovery Team Lead, NAVFAC Hawai'i
Kathleen Ho, Deputy Director for Environmental Health, Hawaii Department of Health

EXHIBIT 3

RE: Assistance - Re: DOH requested sampling

From: "Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA)" <benjamin.r.dunn1.mil@us.navy.mil>
To: "Myers, Travis R CDR USN NAVFAC HAWAII PEARL (USA)" <travis.r.myers.mil@us.navy.mil>, "Chow, Steven L CIV USN NAVFAC HAWAII PEARL (USA)" <steven.l.chow.civ@us.navy.mil>, "Christensen, M Jason (Jason) CDR USN (USA)" <mark.j.christensen.mil@us.navy.mil>, "Diaz, Richard CDR USN DCNO N8 (USA)" <richard.diaz17.mil@us.navy.mil>
Cc: "Yoshizaki, Dayna K CIV USN NAVFAC HAWAII PEARL (USA)" <dayna.k.yoshizaki.civ@us.navy.mil>, "Christiansen, Steven H CIV USN NAVFAC PAC PEARL HI (USA)" <steven.h.christiansen4.civ@us.navy.mil>, "porto, michael a civ usn navfac hawaii pearl (usa)", "Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA)" <jeremy.w.mitchell7.civ@us.navy.mil>, "Roselli, Sarah E LCDR USN (USA)" <sarah.e.roselli.mil@us.navy.mil>, "Barkley, Richard Anthony CAPT USN NAVFAC HAWAII PEARL (USA)" <richard.a.barkley4.mil@us.navy.mil>, "Sare, David N CDR USN NECCPAC (USA)" <david.n.sare2.mil@us.navy.mil>, "Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA)" <michael.t.klapec.civ@us.navy.mil>, "Johnston, Milton L Jr CIV USN COMNAVREG PEARL HI (USA)" <milton.l.johnston3.civ@us.navy.mil>
Date: Wed, 07 Feb 2024 04:40:57 +0000
Attachments: smime.p7s (6.68 kB)

PRE-DECISIONAL / INTERNAL DELIBERATIVE -- NOT FOR PUBLIC RELEASE

Team,
outstanding response to the emergent ask, and thank you!

Mahalo & Vr,
 CDR Dunn
 Deputy for Environment & Remediation, NCTF-Red Hill
 Naval Facilities Engineering Systems Command Hawai'i
 Mobile: (808) 366-9590 | Email: Benjamin.r.dunn1.mil@us.navy.mil

From: Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA) <travis.r.myers.mil@us.navy.mil>
Sent: Tuesday, February 6, 2024 6:31 PM
To: Chow, Steven L CIV INDOPACOM JTF RED HILL (USA) <steven.l.chow.civ@us.navy.mil>; Christensen, M Jason (Jason) CDR USN (USA) <mark.j.christensen.mil@us.navy.mil>; Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA) <benjamin.r.dunn1.mil@us.navy.mil>; Diaz, Richard LCDR USN NAVFAC HAWAII PEARL (USA) <richard.diaz17.mil@us.navy.mil>
Cc: Fujimoto, Dayna K CIV USN NAVFAC HAWAII PEARL (USA) <dayna.k.fujimoto.civ@us.navy.mil>; Christiansen, Steven H CIV USN NAVFAC PAC PEARL HI (USA) <steven.h.christiansen4.civ@us.navy.mil>; Porto, Michael A CIV USN NAVFAC HAWAII PEARL (USA) <michael.a.porto.civ@us.navy.mil>; Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA) <jeremy.w.mitchell7.civ@us.navy.mil>; Roselli, Sarah E LCDR USN (USA) <sarah.e.roselli.mil@us.navy.mil>; Barkley, Richard A CDR USN NAVFAC WASHINGTON DC (USA) <richard.a.barkley4.mil@us.navy.mil>; Sare, David N CDR USN INDOPACOM JTF RED HILL (USA) <david.n.sare2.mil@us.navy.mil>; Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) <michael.t.klapec.civ@us.navy.mil>; Johnston, Milton L Jr CIV USN COMNAVREG PEARL HI (USA) <milton.l.johnston3.civ@us.navy.mil>
Subject: Re: Assistance - Re: DOH requested sampling

(+ Milt Johnston)

Steven —
BLUF: Executable; recommend drawing from the barrels used from collection during the pigging process.

- AECOM is tracking to be on-site at 0700 tomorrow morning at Adit 3 to meet LCDR OrRico and the JTF execution/oversight team.
- Tracking to collect to the four containers specifically identified in the EPA letter; understand requirement may be <32 samples as some of the 8 segments are dry.
- To the recommended collection method — Drawing from barrels reduces splash risk of trying to collect while the pig is pushing liquids, sludges, and/or solids. Concern with recommended approach is historical use of barrels that may cause cross-contamination — need JTF to confirm clean prior history of their KTR's equipment.



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Very Respectfully,

LCDR Travis R. Myers, CEC, P.E.
NAVFAC Hawaii | Red Hill Environmental, Operations Officer
Work Cell: 808-462-6965
Email: Travis.R.Myers.mil@us.navy.mil

From: Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA) <travis.r.myers.mil@us.navy.mil>
Sent: Tuesday, February 6, 2024 4:49:03 PM
To: Chow, Steven L CIV INDOPACOM JTF RED HILL (USA) <steven.l.chow.civ@us.navy.mil>; Christensen, M Jason (Jason) CDR USN (USA) <mark.j.christensen.mil@us.navy.mil>; Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA) <benjamin.r.dunn1.mil@us.navy.mil>; Diaz, Richard LCDR USN NAVFAC HAWAII PEARL (USA) <richard.diaz17.mil@us.navy.mil>
Cc: Fujimoto, Dayna K CIV USN NAVFAC HAWAII PEARL (USA) <dayna.k.fujimoto.civ@us.navy.mil>; Christiansen, Steven H CIV USN NAVFAC PAC PEARL HI (USA) <steven.h.christiansen4.civ@us.navy.mil>; Porto, Michael A CIV USN NAVFAC HAWAII PEARL (USA) <michael.a.porto.civ@us.navy.mil>; Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA) <jeremy.w.mitchell7.civ@us.navy.mil>; Roselli, Sarah E LCDR USN (USA) <sarah.e.rosell.mil@us.navy.mil>; Barkley, Richard A CDR USN NAVFAC WASHINGTON DC (USA) <richard.a.barkley4.mil@us.navy.mil>; Sare, David N CDR USN INDOPACOM JTF RED HILL (USA) <david.n.sare2.mil@us.navy.mil>; Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) <michael.t.klapec.civ@us.navy.mil>
Subject: Re: Assistance - Re: DOH requested sampling

Steven –
AECOM (plus Randall Hu) walking in via Adit 3, as of 1643, to meet with LCDR OrRico for site visit.

Very Respectfully,

LCDR Travis R. Myers, CEC, P.E.
NAVFAC Hawaii | Red Hill Operations Officer
Work Cell: (808) 462-6965
Travis.R.Myers.mil@us.navy.mil

From: Chow, Steven L CIV INDOPACOM JTF RED HILL (USA) ~~2:59~~
Sent: Tuesday, February 06, 2024 14:59
To: Christensen, M Jason (Jason) CDR USN (USA); Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA); Diaz, Richard LCDR USN NAVFAC HAWAII PEARL (USA); Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA)
Cc: Fujimoto, Dayna K CIV USN NAVFAC HAWAII PEARL (USA); Christiansen, Steven H CIV USN NAVFAC PAC PEARL HI (USA); Porto, Michael A CIV USN NAVFAC HAWAII PEARL (USA); Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA); Roselli, Sarah E LCDR USN (USA); Barkley, Richard A CDR USN NAVFAC WASHINGTON DC (USA); Sare, David N CDR USN INDOPACOM JTF RED HILL (USA)
Subject: RE: Assistance - Re: DOH requested sampling

ALCON,
Another update.

8 SECTIONS: 32 samples ←

- There are 8 sections total. So total of 32 samples needed.
- Per DOH letter each of the section will need samples preserved in the following 'containers': HDPE bottle, amber glass jar w/Teflon liner, 2 VOA vials.
- AECOM is headed up there now (1450hrs) to look at the pigging setup and evaluate how to take samples. This was coordinated with LCDR Travis Myers.
- AECOM has all the supplies needed (amber bottles without Teflon liner) and can start in the morning. Teflon liner is not recommended because it will cause PFAS contamination
- This bailed us out on a potential contractor work stoppage (and subcontractor unavailability starting at end of this week)
- Will be updating CAPT Stasick SEPCOR to update BG Link.

Thank you Travis!

v/r,
Steven

From: Chow, Steven L CIV INDOPACOM JTF RED HILL (USA) ~~2:14~~
Sent: Tuesday, February 6, 2024 2:14 PM
To: Christensen, M Jason (Jason) CDR USN (USA) <mark.j.christensen.mil@us.navy.mil>; Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA) <benjamin.r.dunn1.mil@us.navy.mil>; Diaz, Richard LCDR USN NAVFAC HAWAII PEARL (USA) <richard.diaz17.mil@us.navy.mil>
Cc: Fujimoto, Dayna K CIV USN NAVFAC HAWAII PEARL (USA) <dayna.k.fujimoto.civ@us.navy.mil>; Christiansen, Steven H CIV

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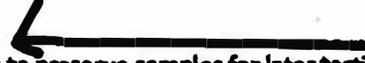
USN NAVFAC PAC PEARL HI (USA) <steven.h.christiansen4.civ@us.navy.mil>; Porto, Michael A CIV USN NAVFAC HAWAII PEARL (USA) <michael.a.porto.civ@us.navy.mil>; Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA) <jeremy.w.mitchell7.civ@us.navy.mil>; Roselli, Sarah E LCDR USN (USA) <sarah.e.roselli.mil@us.navy.mil>; Barkley, Richard A CDR USN NAVFAC WASHINGTON DC (USA) <richard.a.barkley4.mil@us.navy.mil>; Sare, David N CDR USN INDOPACOM JTF RED HILL (USA) <david.n.sare2.mil@us.navy.mil>
Subject: RE: Assistance - Re: DOH requested sampling



ALCON,
Additional information.



- Formal request from DOH, BG Link is driving
- The samples are not necessarily for PFAS. It's to preserve samples for later testing. It appears to be the best sample of the fuel that contaminated the JBPHH water system in 2021.
- Direction was collecting 'aliquot' samples for each of the segments of the AFFF Retention line being pigged
- Samples from each of the segments will be collected in 4 different vessels (very specific, trying to get details) and immediately cooled to 4 degrees and preserved.
- Potential for 20-30 samples (5 segments, but some have sub-segments a and b)



More to follow, but BG Link is now tracking that JTF is reaching out to NAVFAC EV. She agrees this is not a Dawson task.

v/r,
Steven C

From: Chow, Steven L CIV INDOPACOM JTF RED HILL (USA) 1:46
Sent: Tuesday, February 6, 2024 1:45 PM
To: Christiansen, M Jason (Jason) CDR USN (USA) <mark.j.christensen.mil@us.navy.mil>; Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA) <benjamin.r.dunn1.mil@us.navy.mil>; Diaz, Richard LCDR USN NAVFAC HAWAII PEARL (USA) <richard.diaz17.mil@us.navy.mil>
Cc: Fujimoto, Dayna K CIV USN NAVFAC HAWAII PEARL (USA) <dayna.k.fujimoto.civ@us.navy.mil>; Christiansen, Steven H CIV USN NAVFAC PAC PEARL HI (USA) <steven.h.christiansen4.civ@us.navy.mil>; Porto, Michael A CIV USN NAVFAC HAWAII PEARL (USA) <michael.a.porto.civ@us.navy.mil>; Mitchell, Jeremy W CIV USN NAVFAC HAWAII PEARL (USA) <jeremy.w.mitchell7.civ@us.navy.mil>; Roselli, Sarah E LCDR USN (USA) <sarah.e.roselli.mil@us.navy.mil>; Barkley, Richard A CDR USN NAVFAC WASHINGTON DC (USA) <richard.a.barkley4.mil@us.navy.mil>; Sare, David N CDR USN INDOPACOM JTF RED HILL (USA) <david.n.sare2.mil@us.navy.mil>
Subject: Assistance - Re: DOH requested sampling

OPS/CDR Dunn/LCDR Diaz,
Requesting some assistance.

DOH has asked JTF-RH to sample and test the residual fuel we are recovering from the AFFF "retention" line. Getting more information, but we're a little out of our depth and probably need some assistance.

- Samples are requested to be taken and preserved
- Testing includes PFAS (which might be caused by pipe vs. AFFF, since AFFF hasn't been released)
- Our (NAVFAC) contractor (Dawson) has done testing before to support their disposal process, but preservation and 'chain of custody' makes me think we should leverage a more experienced contractor such as AECOM. I believe that Dawson did get positive hits of PFAS when disposing of the residuals during the AFFF retention crossover project.
- Unless this is a capability of our PWD shops?



v/r,

Steven L. Chow, PE
Supervisory General Engineer
Joint Task Force Red Hill – Repair Directorate
USINDOPACOM
Mobile: (808) 220-4172
steven.l.chow.civ@us.navy.mil

EXHIBIT 4

[Non-DoD Source] RE: Fuel Samples from Aqueous Film-Forming Foam Retention Line

From: "Frearson, Guy" <guy.frearson@aecom.com> ← **ARCOM**
 To: "Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA)" <michael.t.klapec.civ@us.navy.mil>, "Myers, Travis R CDR USN NAVFAC HAWAII PEARL (USA)" <travis.r.myers.mil@us.navy.mil>
 Cc: "Ramos, Alethea" <alethea.amos@aecom.com>, "Maman, Alex" <alexandre.maman@aecom.com>, "Womack, Chris" <chris.womack@aecom.com>, "Vo, Jacklyn" <jacklyn.vo@aecom.com>, "Edmonds, Alexander" <alexander.edmonds@aecom.com>, "Maningas, Mario A CIV USN NAVFAC HAWAII PEARL (USA)" <mario.a.maningas.civ@us.navy.mil>, "Hu, Randall T CIV USN NAVFAC HAWAII PEARL (USA)" <randall.t.hu.civ@us.navy.mil>
 Date: Wed, 07 Feb 2024 19:02:57 +0000 **2/7 6:02 pm**

Mike,
 We have a runner, we are getting this done now.
 Alex,
 Thank you very much for coordinating, very much appreciated.
 Thanks,
 Guy
 954-410-0879

From: Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) **2/7 8:53am**
 Sent: Wednesday, February 7, 2024 8:53 AM
 To: Frearson, Guy ; Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA)
 Cc: Ramos, Alethea ; Maman, Alex ; Womack, Chris ; Vo, Jacklyn ; Edmonds, Alexander ; Maningas, Mario A CIV USN NAVFAC HAWAII PEARL (USA) ; Hu, Randall T CIV USN NAVFAC HAWAII PEARL (USA)
 Subject: RE: Fuel Samples from Aqueous Film-Forming Foam Retention Line

Guy,
 As we discussed, please take samples from two locations, the tote and the barrel, for each segment. This means all 4 containers at each location. Understand the limitations of limited volume and the fact that the tote is just moved and reused for each segment ("contamination" from the tote is still related to what's in the pipe). If there is not enough volume to take samples from both, use your best scientific judgement as to which one you sample and document your reasoning. Additionally, if there isn't enough volume for all four containers, fill the HDPE bottle first (the one thing we know that the RAs will want the samples to be analyzed for is PFAS). Be sure to include field conditions on your field notes for reporting purposes. From JTF per a meeting with EPA "Document sample details as much as possible – including why we didn't sample from pipeline, any notable conditions, etc." I would suggest pictures.

Michael (Mike) T. Klapec, PE
 Supervisory Environmental Engineer
 Red Hill OIC Monitoring and Sampling
 Naval Facilities Engineering Systems Command, Hawaii
 Mobile: (808) 234-4771
 michael.t.klapec.civ@us.navy.mil

From: Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) **2/6 7:03pm**
 Sent: Tuesday, February 6, 2024 7:03 PM
 To: Frearson, Guy <Guy.Frearson@aecom.com>; Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA) <travis.r.myers.mil@us.navy.mil>
 Cc: Ramos, Alethea <alethea.amos@aecom.com>; Maman, Alex <alexandre.maman@aecom.com>; Womack, Chris <Chris.Womack@aecom.com>; Vo, Jacklyn <Jacklyn.Vo@aecom.com>; Edmonds, Alexander <Alexander.Edmonds@aecom.com>
 Subject: RE: Fuel Samples from Aqueous Film-Forming Foam Retention Line

Guy,
 Thanks again on your quick response and flexibility. We will let you know as soon as we do if anything changes.
 Michael (Mike) T. Klapec, PE
 Supervisory Environmental Engineer
 Red Hill OIC Monitoring and Sampling
 Naval Facilities Engineering Systems Command, Hawaii
 Mobile: (808) 234-4771
 michael.t.klapec.civ@us.navy.mil

From: Frearson, Guy <Guy.Frearson@aecom.com> **2/6 6:57 pm**
 Sent: Tuesday, February 6, 2024 6:57 PM
 To: Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA) <travis.r.myers.mil@us.navy.mil>; Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) <michael.t.klapec.civ@us.navy.mil>
 Cc: Ramos, Alethea <alethea.amos@aecom.com>; Maman, Alex <alexandre.maman@aecom.com>; Womack, Chris

18

Subject: [Non-DoD Source] RE: Fuel Samples from Aqueous Film-Forming Foam Retention Line
Mike and LCDR Myers,

As discussed, the plan for tomorrow is to mobilize to site tomorrow 0700, coordinate with JTF and collect liquid samples from barrels following PFAS protocols (1 set per barrel, as defined in correspondence from EPA, attached, and appropriate quality control samples). At this point in time, we will not be collecting sample directly from the AFFF retention line as requested in the EPA correspondence. AECOM will remain in constant contact with JTF and will sample all drums from all sections in a timely fashion. !!

We look forward to determination of the exact analytical suite. Should plans change, we look forward to early notification such that we can adjust in real time.

Please feel free to call or e-mail with any questions.

Best Regards,
Guy Frearson, PMP, STSC
Associate Vice President
Mobile (954) 410-0879
guy.frearson@aecom.com
AECOM

GUY FREARSON
Aecom



1001 Bishop Street, Suite 1600, Honolulu, HI 96813

www.aecom.com

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Please consider the environment before printing this e-mail.

From: Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA) travis.r.myers.mil@us.navy.mil>

Sent: Tuesday, February 6, 2024 3:00 PM

To: Frearson, Guy Guy.Frearson@aecom.com>

Cc: Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA) michael.t.klapec.civ@us.navy.mil>

Subject: Fw: Fuel Samples from Aqueous Film-Forming Foam Retention Line

Importance: High

Guy –

Augmenting details from Mike's conversation with you... Also, need an AECOM rep to meet LCDR Kathleen OrRico at PSF179 today/ASAP (near big turn downstream of the oil tight door by the tank gallery).

Very Respectfully,

LCDR Travis R. Myers, CEC, P.E.

NAVFAC Hawaii | Red Hill Operations Officer

Work Cell: (808) 462-6965

Travis.R.Myers.mil@us.navy.mil

From: Cohen, Matthew Cohen.Matthew@epa.gov>

Sent: Tuesday, February 6, 2024 13:06

To: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) john.f.wade2.mil@us.navy.mil>; Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) stephen.d.barnett.mil@us.navy.mil>

Cc: Williams, Marc F RDML USN COMPACFLT (USA) marc.f.williams.mil@us.navy.mil>; Eng, Sheri R CIV USN

COMNAVREG PEARL HI (USA) sheri.r.eng.civ@us.navy.mil>; Johnston, Milton L Jr CIV USN

COMNAVREGCOM DC (USA) milton.l.johnston3.civ@us.navy.mil>; Stout, Joshua C CIV USN COMNAVREG

PEARL HI (USA) joshua.c.stout8.civ@us.navy.mil>; Gosch, Brandon O CDR USN COMNAVREG PEARL HI (USA)

brandon.o.gosch.mil@us.navy.mil>; Stasick, Steven James CAPT USN INDOPACOM JTF RED HILL (USA)

steven.j.stasick.mil@us.navy.mil>; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA)

james.r.sullivan13.mil@us.navy.mil>; Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA)

benjamin.r.dunn1.mil@us.navy.mil>; Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA)

travis.r.myers.mil@us.navy.mil>; Kathleen.Ho@doh.hawaii.gov Kathleen.Ho@doh.hawaii.gov>; Trombadore, Claire

(she/her/hers) Trombadore.Claire@epa.gov>; Brockway, Lynn (she/they) Brockway.Lynn@epa.gov>

Subject: [Non-DoD Source] Fuel Samples from Aqueous Film-Forming Foam Retention Line

RADM Wade and RADM Barnett,

Sending on behalf of Claire Trombadore. Please see the attached letter.

Please let me know if you have any questions.

Matthew Cohen PG

Red Hill Project Coordinator

U.S. EPA Region 9

75 Hawthorne Street

San Francisco, CA 94105

(415) 972-3691

cohen.matthew@epa.gov

EXHIBIT 5

Re: AFFF Retention Line Samples PageID.1619

From: "Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA)" <travis.r.myers.mil@us.navy.mil>
To: "Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA)" <james.r.sullivan13.mil@us.navy.mil>, "Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA)" <benjamin.r.dunn1.mil@us.navy.mil>, "Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA)" <michael.t.klapec.civ@us.navy.mil>
Date: Thu, 08 Feb 2024 00:16:59 +0000

2/8 4:59

//INTERNAL DELIBERATIVE – DO NOT RELEASE//

Skipper –
More formal response; replaces the quick response provided in case you needed something in the short-term.

BLUE: Steven Chow has had limited coordination with our team, so some of the information is not accurate; there also appears to be a disconnect with JTF on if we wanted to sample from the barrels for fuel accounting purposes (we requested this nearly one month ago and on numerous occasions since).
Providing what our contractor is doing ISO this requirement below.

1. 1. AECOM is sampling, where quantity of substance is present, in accordance with the four containers specifically identified in the EPA letter of 06 Feb 2024. In instances where able, AECOM is collecting from the pipe – where not able, collection is from the tote and/or barrel (after particles settle).
 - a. 1. In cases where sufficient volume does not exist for all samples, priority is given to the HDPE bottle as that gives capability for PFAS sampling as well.
 - b. 2. In cases where sufficient quantity exists, AECOM is collecting from the tote and the barrel in each segment to understand any impacts that either of these handling steps could have on the sample.
2. 2. Documentation is being made on where the sample is collected from in each case (pipeline, tote, barrel, etc.), any notable conditions, handling, etc.
3. 3. The samples are put in a cooler with ice and chilled to 4 degrees Celsius IAW the EPA letter of 06 Feb 2024. Samples will be sent to a laboratory working with the Navy Contractor (location TBD) for preservation IAW EPA letter of 06 Feb 2024.
 - a. 1. EPA has not requested the samples be provided to them for retention, so they are being retained by a lab working with the Navy Contractor until further direction from the EPA is provided.
4. 4. To the opportunity to collect fuel samples for characterization in BG Link's last comment. Yes, we want that opportunity (understanding it is lower priority to EPA's letter).
 - a. 1. I can document us requesting this opportunity as early as January 10, 2024 and have followed up numerous times (at least three other written occasions) to LCDR OrRico and LCDR Roselli without confirmation of the date/time availability to take such sampling. Sampling would be conducted in similar manner to what we did in Aug/Sept 2023 during retention line draining from the tank gallery area by LCDR Puckett and Maj Nussbaum.
 - b. 2. To be clear, this does NOT replace JTF's contractor's (Dawson) requirements for disposal of materials accumulated during the execution of their work – we are not performing disposal characterization sampling for Dawson; that is inherent work to their original requirement that needs to be performed by Dawson.

Very Respectfully,
LCDR Travis R. Myers, CEC, P.E.
NAVFAC Hawaii | Red Hill Operations Officer
Work Cell: (808) 462-6965
Travis.R.Myers.mil@us.navy.mil

From: Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA)
Sent: Wednesday, February 07, 2024 13:14
To: Dunn, Benjamin R CDR USN NAVFAC HAWAII PEARL (USA); Myers, Travis R LCDR USN NAVFAC HAWAII PEARL (USA); Klapec, Michael T CIV USN NAVFAC HAWAII PEARL (USA)
Subject: FW: AFFF Retention Line Samples

21



Thanks!

CO

CAPT James R. Sullivan
Commanding Officer, NAVFAC Hawaii
Regional Engineer, Navy Region Hawaii
Office: 808-471-3926 Mobile: 808-650-8754
NIPR: james.r.sullivan13.mil@us.navy.mil

From: Adams, David J CAPT USN COMNAVDIST DC (USA)

Sent: Wednesday, February 7, 2024 1:00 PM

To: Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) ; Link, Michelle A BG USARMY INDOPACOM JTF RED HILL (USA) ; Killan, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) ; Williams, Marc F RDML USN COMPACFLT (USA) ; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) ; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA)
Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) ; Gray, C Scott (Scott) VADM USN CNIC WASHINGTON DC (USA) ; Triggs, Shawn M CAPT USN NAVSUP FLCPH (USA) ; Nash, Christopher Andrew CAPT USN COMPACFLT (USA)
Subject: RE: AFFF Retention Line Samples

RADM Barnett,

NCTF RH N4, confirmed with Steven Chow (Supervisory General Engineer, Joint Task Force Red Hill – Repair Directorate) and NAVFAC that duplicate samples for the Navy are being taken.

Thank you.

V/r,

Dave

CAPT David Adams

NGTF-RH

Office: 808-471-0262

Mobile: 202-718-8402

From: Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) stephen.d.barnett.mil@us.navy.mil>

Sent: Wednesday, February 7, 2024 12:09 PM

To: Link, Michelle A BG USARMY INDOPACOM JTF RED HILL (USA) michelle.a.link2.mil@mail.mil>; Killan, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) jeffrey.j.killan.mil@us.navy.mil>; Williams, Marc F RDML USN COMPACFLT (USA) marc.f.williams.mil@us.navy.mil>; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) james.r.sullivan13.mil@us.navy.mil>; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA) sherri.r.eng.civ@us.navy.mil>

Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) john.f.wade2.mil@us.navy.mil>; Gray, C Scott (Scott) VADM USN CNIC WASHINGTON DC (USA) christopher.s.gray2.mil@us.navy.mil>; Triggs, Shawn M CAPT USN NAVSUP FLCPH (USA) shawn.m.triggs2.mil@us.navy.mil>; Nash, Christopher Andrew CAPT USN COMPACFLT (USA) christopher.a.nash2.mil@us.navy.mil>; Adams, David J CAPT USN COMNAVDIST DC (USA) david.j.adams2.mil@us.navy.mil>

Subject: RE: AFFF Retention Line Samples

Michelle—

Thank you and copy all.

BT

Marc—

Lets talk today regarding COAs.

v/r,

BD

From: Link, Michelle A BG USARMY OSD OUSD A-S (USA) michelle.a.link2.mil@mail.mil>

2/7 10:47 AM

Sent: Wednesday, February 7, 2024 10:47 AM

To: Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) stephen.d.barnett.mil@us.navy.mil>; Killan, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) jeffrey.j.killan.mil@us.navy.mil>; Williams, Marc F RDML USN COMPACFLT (USA) marc.f.williams.mil@us.navy.mil>; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) james.r.sullivan13.mil@us.navy.mil>; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA) sherri.r.eng.civ@us.navy.mil>
Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) john.f.wade2.mil@us.navy.mil>; Gray, C Scott (Scr) VADM USN CNIC WASHINGTON DC (USA) christopher.s.gray2.mil@us.navy.mil>

Subject: AFFF Retention Line Samples

Good Morning,

As you are likely tracking, JTF-Red Hill is currently pigging the AFFF retention line in proximity of the ADIT 3Y. Yesterday the EPA directed that we take samples of the fuel in each of the segments as we remove fuel leftover from the 21 spill. AECOM is collecting these samples on behalf of both the NCTF and JTF whereupon we will document the process and note the chain of custody in anticipation of future litigation discovery. The EPA did not request that the samples be tested, rather, that they be preserved. However, we know that samples from the original spill may not have been taken – or are no longer available. We also know that the community has long alleged the presence of anti-freeze in the original spill and further, with the renewed assertions of water contamination, there are allegations of residual contamination from the 21 spill as a root cause. Consequently, we also wanted to ensure that the Navy had the opportunity to collect fuel samples that could be tested by Navy labs as part of your ongoing water quality efforts before we properly dispose of the fuel. This window of opportunity is very narrow, thus please consider this option and let us know if you would like access to the drums of fuel within the next 24-48 hours of operations. I acknowledge you may have already directed AECOM to collect duplicate samples for your use but wanted to ensure I had communicated this to you out of an abundance of caution.

Thank you!

BG Michelle Link

Deputy Commander

Joint Task Force Red Hill

(m) 586-215-8462

(nipr) michelle.a.link2.mil@mail.mil

(sipr) michelle.a.link2.mil@mail.smil.mil

22

EXHIBIT 11

Thanks!
CO

CAPT James R. Sullivan
Commanding Officer, NAVFAC Hawaii
Regional Engineer, Navy Region Hawaii
Office: 808-471-3926 Mobile: 808-650-8754
NIPR: james.r.sullivan13.mil@us.navy.mil

From: Adams, David J CAPT USN COMNAVDIST DC (USA)
Sent: Wednesday, February 7, 2024 1:00 PM
To: Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) ; Link, Michelle A BG USARMY INDOPACOM JTF RED HILL (USA) ; Kilian, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) ; Williams, Marc F RDML USN COMPACFLT (USA) ; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) ; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA)
Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) ; Gray, C Scott (Scott) VADM USN CNIC WASHINGTON DC (USA) ; Triggs, Shawn M CAPT USN NAVSUP FLCPH (USA) ; Nash, Christopher Andrew CAPT USN COMPACFLT (USA)
Subject: RE: AFFF Retention Line Samples

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NCTF RH N4, confirmed with Steven Chow (Supervisory General Engineer, Joint Task Force Red Hill – Repair Directorate) and NAVFAC that duplicate samples for the Navy are being taken.

Thank you.

Vr,
Dave
CAPT David Adams
NGTF-RH
Office: 808-471-0262
Mobile: 202-718-8402

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To: Link, Michelle A BG USARMY INDOPACOM JTF RED HILL (USA) michelle.a.link2.mil@mail.mil; Kilian, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) jeffrey.j.kilian.mil@us.navy.mil; Williams, Marc F RDML USN COMPACFLT (USA) marc.f.williams.mil@us.navy.mil; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) james.r.sullivan13.mil@us.navy.mil; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA) sherri.r.eng.civ@us.navy.mil
Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) john.f.wade2.mil@us.navy.mil; Gray, C Scott (Scott) VADM USN CNIC WASHINGTON DC (USA) christopher.s.gray2.mil@us.navy.mil; Triggs, Shawn M CAPT USN NAVSUP FLCPH (USA) shawn.m.triggs2.mil@us.navy.mil; Nash, Christopher Andrew CAPT USN COMPACFLT (USA) christopher.a.nash2.mil@us.navy.mil; Adams, David J CAPT USN COMNAVDIST DC (USA) david.j.adams2.mil@us.navy.mil
Subject: RE: AFFF Retention Line Samples

Michelle—
Thank you and copy all.

BT
Marc—
Lets talk today regarding COAs.

Vr,
BD

From: Link, Michelle A BG USARMY OSD OUSD A-S (USA) michelle.a.link2.mil@mail.mil 2/7 10:47 AM
Sent: Wednesday, February 7, 2024 10:47 AM
To: Barnett, Stephen D RADM USN COMNAVREG PEARL HI (USA) stephen.d.barnett.mil@us.navy.mil; Kilian, Jeffrey J RDML USN NAVFAC PAC PEARL HI (USA) jeffrey.j.kilian.mil@us.navy.mil; Williams, Marc F RDML USN COMPACFLT (USA) marc.f.williams.mil@us.navy.mil; Sullivan, James Rueben CAPT USN NAVFAC HAWAII PEARL (USA) james.r.sullivan13.mil@us.navy.mil; Eng, Sherri R CIV USN COMNAVREG PEARL HI (USA) sherri.r.eng.civ@us.navy.mil
Cc: Wade, John F VADM USN INDOPACOM JTF RED HILL (USA) john.f.wade2.mil@us.navy.mil; Gray, C Scott (Scott) VADM USN CNIC WASHINGTON DC (USA) christopher.s.gray2.mil@us.navy.mil
Subject: AFFF Retention Line Samples

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Thank you!
BG Michelle Link
Deputy Commander
Joint Task Force Red Hill
(m) 586-215-8462
(npr) michelle.a.link2.mil@mail.mil
(sopr) michelle.a.link2.mil@mail.smil.mil

been estimated, clarify whether this estimate is based on manual gauging or other methods, and provide a final "best estimate" of remaining fuel and sludge in the Red Hill tanks. EPA acknowledges that there are challenges acquiring an exact measurement due to the scale of the tanks, inability to go inside the tanks, and inexact nature of the gauging process.

2. EPA identified two barrels in Building 313 labeled as containing fluid drained from a low point drain on the Aqueous Film Forming Form (AFFF) Retention Line. Please share the total number of barrels and estimated volume of material stored at this location. Provide all remaining plans for sampling, transporting, and disposing of this material.

Has a hazardous waste determination been made for these barrels? If not, provide a hazardous waste determination by March 29, 2024. Hazardous waste should be managed and stored in accordance with all regulatory requirements and moved to the appropriate hazardous waste storage area and/or disposed off-site consistent with regulatory requirements.

3. EPA identified multiple barrels or drums in the Lower Access Tunnel Red Hill Tank 1 bay labeled as containing fluid drained from the AFFF Retention Line during residual fuel removal. Provide all remaining plans for sampling, transporting, and disposing of this material. Please share the total number of barrels and estimated volume of material stored at this location.

Has a hazardous waste determination been made for these barrels/drums? If not, provide a hazardous waste determination by March 29, 2024. Hazardous waste should be managed and stored in accordance with all regulatory requirements and moved to the appropriate hazardous waste storage area and/or disposed off-site consistent with regulatory requirements.

4. Tank 311, located outside Adit 3 and the main receiving tank for the Fuel Oil Recovery system in the Lower Access Tunnel, was observed at the time of the inspection to have a leak in the side of the tank at a height of approximately twelve feet. Tank 311 must be repaired and inspected to ensure future leaks do not occur prior to transferring more material into Tank 311. Provide plans and anticipated dates for any necessary repairs to and future inspection of this tank. Confirm that the inspection report and documentation of repairs will be shared with EPA prior to transferring more material into Tank 311.

5. EPA inspected the AFFF Retention Line and determined that there is a buried portion of this line that runs from Adit 3 to the AFFF aboveground tank. Please explain how JTF-RH determined that this underground pipeline does not contain fuel, and share all records of fluid drained from this line from the time period of November 20, 2021, to the date of the inspection.

6. Provide photos of the blind-flange isolating the FOR line between the surge tanks and the Underground Pumphouse (UGPH) sump.

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7. Provide the Quality Validation reports for air gapping the JP-5, F-24, and F-76 pipelines between the Red Hill tanks and the UGPH.

EPA confirmed during its inspection that over 99% of the fuel contained within the RHBFSF (over 104 million gallons) has been removed, though, a small quantity remains in difficult-to-access areas of the facility. JTF-RH clarified in Supplement 3 of the Defueling Plan that this remaining fuel will be removed by the NCTF-RH as part of facility closure. Supplement 3 also establishes eleven exit criteria that the JTF-RH to accomplish before the NCTF-RH assumes responsibility for the facility. EPA's comments, above, are intended to ensure that JTF-RH meets all eleven exit criteria based on preliminary findings from the inspection. This does not in any way absolve the Navy and the Defense Logistics Agency from meeting the requirements of the 2023 Consent Order, which requires a final Defueling Completion Inspection once all fuel has been removed from the facility. Based on the organizational structure and timelines submitted, EPA assumes that this responsibility will fall to the NCTF-RH once all residual fuel is removed.

CLOSURE TASK FORCE

EPA continues to compile and review the results of the inspection, and in approximately two weeks will deliver a subsequent request for information to the NCTF-RH to address remaining post-inspection requests. These questions will focus on, primarily, confirming timelines and processes for the total removal of fuel from the facility. Following the completion of this post-inspection information request period, EPA will prepare a final report for public disclosure. As agreed upon by EPA and JTF-RH, this final report will be shared with the Navy and DLA for the sole purpose of identifying any controlled unclassified information.

Thank you for considering this request and preparing your team to take on what is likely to be one of the final regulatory objectives of JTF-RH. I stand by to respond to any of your questions or concerns related to this request. Please have your team contact Evan Osborne (206-552-1747, osborne.evan@epa.gov) with any technical concerns or requests.

Sincerely,

JAMES
MARINCOLA

Digitally signed by JAMES
MARINCOLA
Date: 2024.03.18 15:08:55
-0700

Jamie Marincola, Acting Deputy Director
Enforcement and Compliance Assurance
Division

cc: Kathleen Ho, Hawai'i Department of Health
RDML Marc Williams, U.S. Navy Region Hawaii
RDML Jeffrey J. Kilian, NAVFAC Pacific
David Kless, Defense Logistics Agency

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EXHIBIT 12



DEPARTMENT OF THE NAVY
OFFICE OF THE ASSISTANT SECRETARY OF THE NAVY
(ENERGY, INSTALLATIONS, AND ENVIRONMENT)
1000 NAVY PENTAGON
WASHINGTON, DC 20350-1000

→ June 21, 2024

Martha Guzman
Regional Administrator
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Kenneth S. Fink, MD, MGA, MPH
Director
State of Hawai'i, Department of Health
P.O. Box 3378
Honolulu, HI 96801-3378

SUBJECT: GROUNDWATER AND DRINKING WATER MONITORING FOR PER- AND POLYFLUOROALKYL SUBSTANCES AT AND AROUND RED HILL BULK FUEL STORAGE FACILITY AND JOINT BASE PEARL HARBOR-HICKAM

Dear Administrator Guzman and Director Fink:

Thank you for your joint U.S. Environmental Protection Agency (EPA) and Hawai'i Department of Health (DOH) letter dated June 10, 2024 that requests additional sampling of per- and polyfluoroalkyl substances (PFAS) by the Department of the Navy (Navy) at and around the Red Hill Bulk Fuel Storage Facility and Joint Base Pearl Harbor-Hickam. Specifically, EPA and DOH request increased sampling and testing of groundwater and drinking water source water, and EPA requests testing of samples collected in February 2024 from the retention line and collection drums that held fluids from the November 2021 release.

For groundwater, Navy agrees with the EPA and DOH request to work together to implement PFAS sampling of monitoring wells as soon as possible. As noted in your letter, Navy has agreed to expedite the Red Hill PFAS remedial investigation, and I understand that our teams have been discussing the requisite Uniform Federal Policy for Quality Assurance Project Plan (UFP-QAPP) in scoping meetings. We look forward to finalizing the UFP-QAPP and commencing sampling. Navy would be glad to spend time in working sessions with EPA and DOH reaching agreement on the required data elements, thereby streamlining sequential reviews and revisions and accelerating timelines. Navy reiterates our agreement with the objectives of determining the nature and extent of PFAS at Red Hill, PFAS background concentrations, potential migration pathways of PFAS in the environment, and protection of sensitive receptors or drinking water systems.

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For existing and potential future drinking water source water sampling, Navy agrees with the EPA and DOH request for bi-monthly (every two months) sampling at Waiawa, Aiea-Halawa and Red Hill Shafts. We are willing to exceed current regulatory requirements to establish a clear and early record regarding compliance with the Safe Drinking Water Act for PFAS at these three drinking water sources. This testing, in concert with other ongoing efforts to evaluate Aiea-Halawa and Red Hill Shafts for reactivation, will be an important step toward establishment of standards-based Safe Drinking Water Act compliance.

Regarding the EPA request for PFAS analysis of samples collected in February 2024 from the retention line and collection drums that held fluids from the November 2021 release, Navy is unable to agree with conducting the requested evaluation. There are a number of potential pathways for introduction of other materials into the fluids, as acknowledged in your letter. Confounding factors include degradation of the polyvinyl chloride pipe from fuel constituents with the passage of over 2 years, and the means of extraction of fluids from the piping that was conducted for the purposes of defueling, cleaning and disposal of materials as opposed to sample collection (e.g., fluid pump, funnel/drain tubing, and drum consolidation). The fluids from the collection drums and retention line were collected after decommissioning and cleaning procedures had commenced, resulting in numerous points for potential introduction of materials that were not part of the original fluid. As a result, we have little confidence that the collected fluids represent the November 2021 release. Navy believes that the environmental investigation, including the groundwater and source water sampling that we are agreeing to conduct, is the best instrument for evaluation of the release and risk to human health and the environment.

The Navy looks forward to implementing increased and expedited monitoring of PFAS at and around the Red Hill Bulk Fuel Storage Facility and Joint Base Pearl Harbor-Hickam. My point of contact on this important matter is Mr. Steve Hurff at stephen.hurff2.civ@us.navy.mil or (703) 693-7039.

Sincerely,



Digitally signed by
OHANNESSIAN,KARNIG.H.12684951
22
Date: 2024.06.21 19:05:56 -0400

Karnig Ohannessian
Deputy Assistant Secretary of the Navy
(Environment and Mission Readiness)

Copy to:

Mr. Matthew Cohen, Red Hill Project Coordinator, EPA Region 9
Ms. Joanna L. Seto, P.E., DOH Environmental Management Division Administrator
RADM Stephen Barnett, Commander, Navy Closure Task Force – Red Hill



from EPA website search

REGION 9

SAN FRANCISCO, CA 94105

July 19, 2024

Karnig Ohannessian
Deputy Assistant Secretary (Environmental and Mission Readiness)
Department of the Navy
1000 Navy Pentagon
Washington, DC 203520
(Sent via Electronic Mail)

Subject: Analysis of AFFF Retention Line Fluids

Dear Deputy Assistant Secretary Ohannessian:

Thank you for your June 21, 2024, letter to the U.S. Environmental Protection Agency (EPA) and Hawai'i Department of Health (DOH). The Navy agreed to increase groundwater and source water sampling of per- and polyfluoroalkyl substances (PFAS) at and around the Red Hill Bulk Fuel Storage Facility (RHBFSF). Navy did not, however, agree with the request for PFAS analysis of fluids collected from the aqueous film-forming foam (AFFF) retention line and FRAC tanks because of concerns that samples could contain PFAS from sources other than the November 2021 release. EPA acknowledges these concerns but reiterates our request that Navy analyze aqueous samples from at least three, and potentially up to eight, aliquots capable of being analyzed pursuant to EPA Method 1633 for PFAS.

Fuel released during the May 2021 release from the RHBFSF came to be present in the AFFF retention line after it was unknowingly transferred from the AFFF sump to the retention line. In addition to JP-5, the AFFF sump could have transferred materials from the May 2021 release response into the AFFF retention line. These fluids sat for approximately 6 months until being released near Adit 3. The November 2021 release fluids, therefore, could have included a mix of fuel, liquids related to cleanup of the May 2021 release, and anything present in the AFFF retention line prior to May 2021.

Although residual fluids sat in the AFFF retention line piping for two years and three months after the November 2021 release, laboratory analysis would still provide useful information about the composition of AFFF retention line fluids at the time of the release. EPA, DOH, and Navy could use this information to guide the forthcoming PFAS remedial investigation and the ongoing petroleum investigation. September 2023 waste characterization samples collected from the AFFF retention line suggest that material with a modern AFFF formulation may have been present in addition to fuel.

evidence: Samples were collected

In February 2024, Joint Task Force Red Hill (JTF-RH) discovered an estimated 300 to 400 gallons of fluid remaining in the AFFF retention line while preparing for EPA's Interim Defueling Completion Inspection. EPA requested that the Navy collect aliquots of fluids from different line segments, so that samples could later be analyzed to help EPA and DOH better understand the chemical composition of the November 2021 release. JTF-RH collected the aliquots, as requested, on February 7-8, 2024, in three types of containers (HDPE bottles, amber glass jars, and VOA vials). The amber glass jars have caps with Teflon liners, so PFAS analysis should only be run on samples from the HDPE bottles. The other containers were intended for separate analyses, and DOH has shared results from analysis of fuel samples that lessen the need for new data on petroleum-related constituents and fuel additives.

Regarding concerns that fluids in the AFFF retention line may have been affected during sample extraction, or prior to extraction by degradation of polyvinyl chloride piping, EPA did specify in our original February 6, 2024, request letter that Navy follow specific PFAS sampling protocols, avoid the use of buffers and preservatives, and immediately chill aliquots to 4 degrees Celsius. This guidance was designed to best preserve fluids in the state they were in when collected from the source, and JTF-RH reported to EPA that AECOM, the Navy's contractor, collected aliquots, placed them into containers, and chilled them as directed by EPA.

evidence

Regarding concerns about approved methods for analyzing PFAS in fuel samples, EPA recommends that Navy analyze, via EPA method 1633, the three aqueous-phase aliquots from AFFF retention line segment 2B (S02B-DRUM01-LA01N-2402), segment 3B (S03B-LINE-LA01N-2402), and segment 5 (S05A-LINE-LA01N-2402). If sampling volumes allow the laboratory to satisfy requirements of EPA method 1633, EPA also recommends that Navy analyze five mixed-phase aliquots from AFFF retention line segments 2A, 2C, 3A, 4/5 and 5 that may contain aqueous components. These eight aliquots are currently being stored under Navy chain of custody at the Eurofins lab in Sacramento, California.

If you have any questions regarding this letter, please contact me.

Sincerely,

/s/

Claire Trombadore, Director
Land, Chemicals, and Redevelopment Division

cc: RADM Stephen Barnett, Commander, Navy Closure Task Force – Red Hill
RADM Marc Williams, Deputy Commander, Navy Closure Task Force – Red Hill
Kathleen Ho, Deputy Director for Environmental Health, Hawaii Department of Health

EXHIBIT 14



U.S. Department of Justice

Civil Division, Torts Branch
Environmental Tort Litigation Section

Eric Rey, Trial Attorney
Phone: (202) 616-4224
Email: eric.a.rey@usdoj.gov

VIA EMAIL [chris@nidellaw.com]



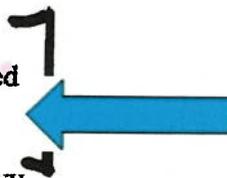
January 2, 2025

Chris Nidel
Nidel & Nace, PLLC
One Church Street, Suite 802
Rockville, MD 20850

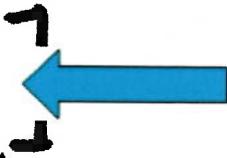
Re: Red Hill FTCA Litigation – AFFF Retention Line Fluids

Mr. Nidel:

We write in response to your December 4, 2024 email requesting that the fluids collected from the AFFF retention line at the Red Hill Bulk Fuel Storage Facility and referenced in an August 13, 2024 letter from the Navy to EPA be retained and made available to Plaintiffs for testing and analysis. For background, we are producing additional correspondence between Navy and the EPA regarding these fluids, a sample analytical report, and a waste material profile sheet. We are confirming whether additional analytical results exist for these fluids and, if so, we will produce those additional results as well. Today's production (US_RHFTCA_SERIES2_14752022 - 14752062) can be accessed at the following link: <https://jefs.box.com/s/rc113ov40gmkmhp12utqbyxowwtajcm2>. The password for this production is: u0V^f76%R87)u



We have confirmed that the samples of these fluids listed in the produced inventory (US_RHFTCA_SERIES2_14752062) have been retained. Please let us know your availability for a meet-and-confer to discuss which samples Plaintiffs wish to analyze and the logistics for doing so. The United States will include counsel for Plaintiffs in the coordinated Red Hill FTCA cases in the planning and invitation for this meeting.



The United States reserves any and all arguments with respect to these samples and any analysis thereof, including but not limited to their representativeness of the fuel spilled in November 2021.

Best Regards,

s/Eric Rey

Eric Rey
Trial Attorney
U.S. Department of Justice

cc: Counsel in *Feindt/Hughes/Whaley, Williams, and Alaimateata*

EXHIBIT 16



JOINT TASK FORCE - RED HILL
1025 QUINCY AVENUE SUITE 900
JOINT BASE PEARL HARBOR HICKAM HI 96860

5090
Ser J00/008
February 9, 2024



Claire Trombadore
Director, Land, Chemicals, and Redevelopment Division
United States Environmental Protection Agency, Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Ms. Trombadore:

SUBJECT: Joint Task Force Red Hill's Response to EPA's Request for Fuel Samples from Aqueous Film-Forming Foam Retention Line

On February 6, 2024, Joint Task Force - Red Hill (JTF-RH) received your electronic correspondence on behalf of the Environmental Protection Agency (EPA) regarding EPA's request for fuel samples from the Aqueous Film-Forming Retention Line (AFFF Retention Line).

Background: In preparation for the Interim Defueling Inspection, JTF-RH undertook a wide-ranging site survey to identify all possible residual fuel locations within the Red Hill Bulk Fuel Storage Facility (RHBFSF), and discovered an estimated 400 gallons of fuel throughout the AFFF Retention Line. The fuel found in the line is what remains from the November 2021 spill and should not be confused with the unintended release of AFFF concentrate that occurred on November 29, 2022. On February 1, 2024, JTF-RH provided EPA with its AFFF Retention Line Draining Concept of Operations (CONOP). See Enclosure 1.

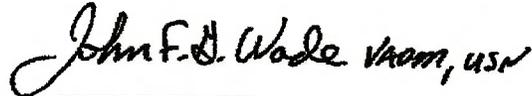
Sampling Request: JTF-RH acknowledges EPA's request to collect aliquots from the AFFF line prior to cleaning the line. However, JTF-RH completed the pigging for Segment 1 prior to receiving EPA's request for fuel samples. The drained fuel from Segment 1 was placed into clean 55-gallon drums but remained in the facility. Upon your request, JTF-RH collected aliquots from those drums. Subsequent to receiving EPA's letter, JTF-RH collected samples throughout the remainder of the AFFF Retention Line, as depicted in Enclosure 2.

Collection Method: JTF-RH was not responsible for sample collection, testing, or results. However, JTF-RH personnel did provide centralized oversight for the Navy Region Hawaii Environmental Office (NRH EV) fuel sample collection. The chain of custody of the samples is intact and will reflect the following: AECOM handlers collected the aliquots, placed them into four containers and chilled them as directed by EPA, and sent them to Eurofins Laboratory in Sacramento, California. As the responsible agent, AECOM is delivering the samples to Eurofins Laboratory in Sacramento, California (Enclosure 3). NRH EV point of contact is Mr. Bill Manley at william.r.manley4.civ@us.navy.mil.

We respectfully request EPA acknowledge receipt of this letter. Should you need additional clarification or have any questions or concerns, please contact me or my Chief of Staff, Colonel Jason Wingart at jason.m.wingart.mil@us.navy.mil.

35

Sincerely,



JOHN F. WADE
Vice Admiral, U.S. Navy

Copy to:

DOH HONOLULU HI
EPA HONOLULU HI
OSD WASHINGTON DC
SECNAV WASHINGTON DC
JOINT STAFF WASHINGTON DC
CNO WASHINGTON DC
USINDOPACOM HONOLULU HI
COMPACFLT PEARL HARBOR HI
CNIC WASHINGTON DC
COMNAV SUPSYSCOM MECHANICSBURG PA
NAVFAC WASHINGTON DC
COMNAVREG PEARL HARBOR HI
COMNAVFACSYSCOM PACIFIC PEARL HARBOR HI
NAVSUP FLT LOG CTR PEARL HARBOR HI
NAVFAC HAWAII PEARL HARBOR HI

ITEM FOR INFORMATION NO. 2

“September 22, 2025

WATER
CONSERVATION
INITIATIVES
UPDATE 2025

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843
Chair and Members:

Subject: Water Conservation Initiatives Update 2025

The Board of Water Supply views conservation as a cornerstone in protecting our precious wai, and we offer a variety of programs to encourage sustainable water use across O'ahu. Today, we are pleased to share an update from our Water Resources Division and the Communications Office on initiatives and programs we have been developing and rolling out to promote conservation.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Steven Norstrom, Information Specialist II, Communications Office, and Lorna Heller, Civil Engineer VI, gave the report. There were no comments or discussion.

Board Member Andaya applauded the BWS's conservation efforts. He referred to slide four, stating that the graph provides excellent information. Board Member Andaya shared that he talks about conservation in his water elective course at the higher education level.



Chair Anthony also commented that the graph on slide four is awesome. He inquired whether, during all the different types of outreach the BWS has conducted, there were any comments on what the BWS could do further.

Mr. Barry Usagawa stated that Ms. Lorna Heller is involved with the BWS custom rebate program with Honeywell. He explained that each rebate is prescriptive. Both residential and commercial customers select a qualifying rebate-eligible equipment and submit the form to receive the refund.

Mr. Usagawa shared that larger potable water users, such as the Alia in Kaka'ako and the Ku'ulei Place along Date Street, are constructing a gray water reuse system. The Ku'ulei Place utilizes a gray water reuse system, which takes gray water (shower, sink, and laundry water) filtered through a water treatment system and uses it to flush toilets and irrigate landscaping. The Alia Kaka'ako utilizes its gray water reuse system for cooling tower makeup water, which is sufficient to meet the needs of a chilled water air conditioning (AC) system. Ms. Lorna Heller's team and Honeywell are working on a custom rebate or incentive for these two developments based on their freshwater savings. Mr. Usagawa also mentioned that the BWS is working on a turf replacement rebate for the Mid-Pac country club turf, since there is no non-potable source available in the area.

Chair Anthony commented that he asked if there was more the BWS could do because he wonders if outreach to larger businesses could help reduce water use.

Ms. Kathleen Elliott-Pahinui commented that she agreed with Mr. Usagawa, noting that the landscaping industry is an area that needs more focus. Therefore, the BWS is working on some ideas. She recognized Mr. Steven Norstrom for his efforts and progress in conservation within multi-family homes and rentals. Ms. Elliott-Pahinui mentioned that through the Hawaiian Council Renter Resource Fairs, the BWS has been able to participate and share. She commented that conservation is not just for one market, but for everyone who uses water.

Chair Anthony also mentioned that the children who share their creativity by entering the BWS poster and poetry contest could display their work in areas that are difficult to reach or do not receive a direct water bill, such as communities under Homeowners Associations (HOAs), like condominiums, to spread the word about conservation.

Ms. Elliott-Pahinui welcomes any ideas, since the BWS is asking the community to reduce its water use by up to 20%.

Chair Anthony mentioned the PGA conference on Maui was cancelled due to its dry landscape caused by a water shortage. He commented that recognizing the importance, the consequences of not having enough, and

taking the necessary and creative steps to conserve water helps. He thanked the BWS for all its efforts.

Chair Anthony stated that tracking rainfall, tradewinds, head levels, and water use is crucial.

Mr. Usagawa commented that the use of gray water reuse was discussed at the new Aloha Stadium entertainment district and around the Iwilei transit-oriented development, as the BWS sources are limited. He stated that conservation education is essential.

Chair Anthony stated that the data indicate that conservation education is effective.

Manager Lau stated that the BWS will partner with other city agencies to become more efficient and increase rebate value. He also recognized Mr. Usagawa for his leadership in the One Water Honolulu development and for working with the Freshwater initiative to make it a statewide effort.

Chair Anthony commented that the continental United States has the advantage of borrowing resources from neighboring states, whereas Hawai'i does not have the same advantages. Therefore, it is crucial that the BWS tracks and monitors water use.



ANNUAL WATER CONSERVATION UPDATE

Lorna Heller, Water Resources
Steven Norstrom, Communications
September 22, 2025
boardofwatersupply.com

OVERVIEW



- Water Sensible Program
- WaterSmart
- Conservation Advertising
- Conservation Outreach
- Calendar Contest
- Xeriscape Garden



Conservation

It is one of the single most significant ways we can preserve our precious water resources



O'AHU'S CONSERVATION SUCCESS STORY

Population served Average water use per person per day



Honolulu begins a decade of rapid population growth. The rate of water use is escalating as well.

The Board of Water Supply begins aggressive, multi-pronged water conservation programs.

Conservation practices are becoming a way of life.

Conservation efforts step up with more conservation measures.

Since 1990, water use has dropped by 16.5%. O'ahu is conserving 15 billion gallons of water per year.

15 billion gallons per year are now saved for other uses today vs. 1990



RESIDENTIAL PROGRAM OVERVIEW



Clothes Washer
\$75 rebate



Toilet
\$100 rebate



Weather Based
Irrigation Controller
Up to \$100



Smart Water Monitor
Up to \$200



Rain Barrel
\$40 rebate



COMMERCIAL PROGRAM OVERVIEW



Kitchen



Landscaping



Plumbing



Cooling Tower



REBATE PROGRAM HIGHLIGHTS

93,453,119

Gallons Saved/Year

20,540

Rebates Issued

\$1,518,763

(\$)
Rebates Provided

13,072

Clothes Washers

5,343

Toilets

1,466

Rain Barrels

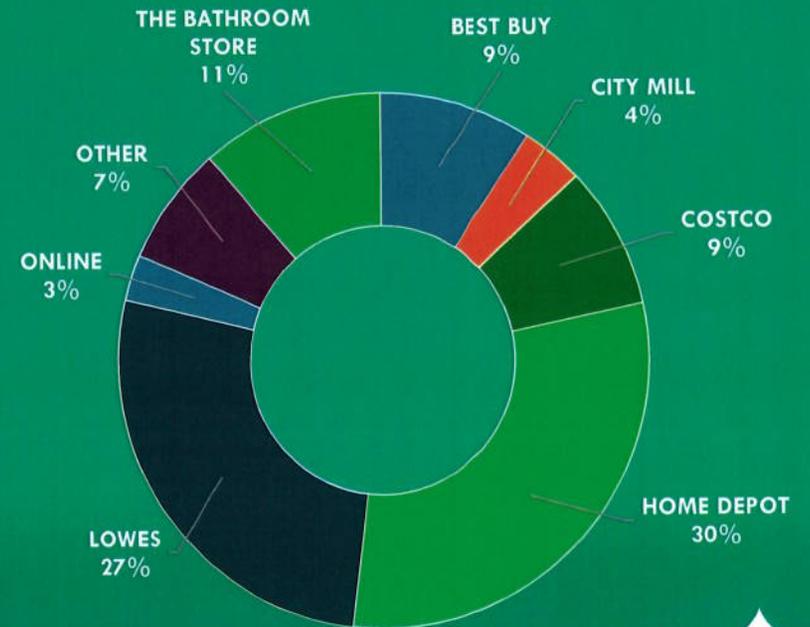
626

WBICs

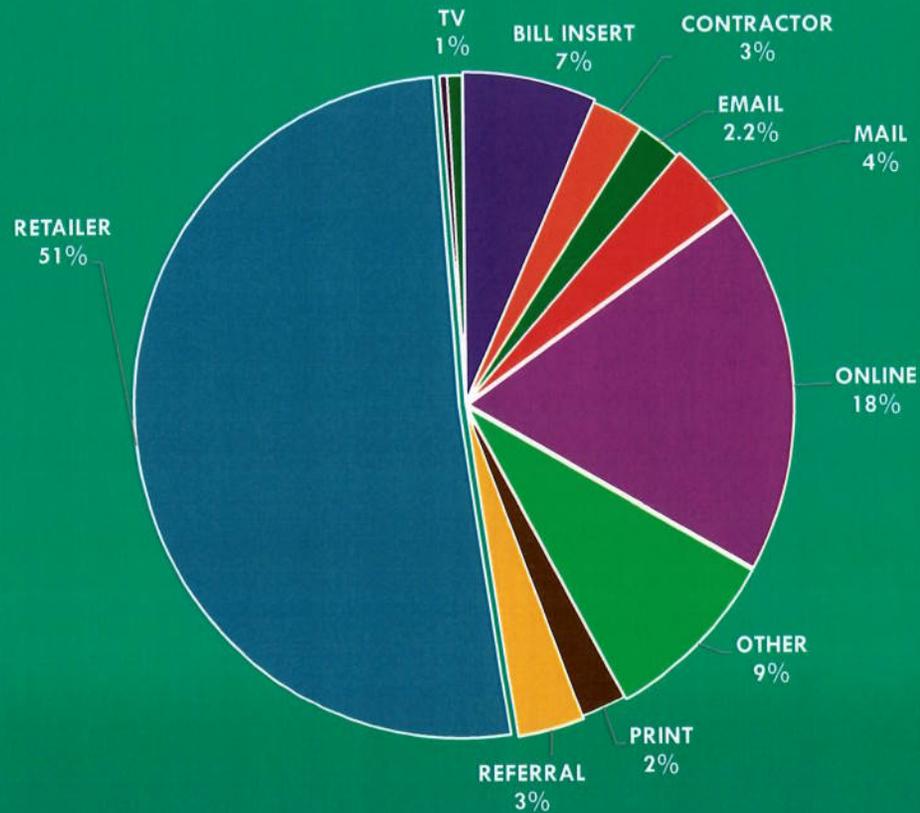


MEASURE AND RETAILER BREAKDOWN

Measure	Quantity	Rebate (\$)	Total Annual Savings (gal/year)
Clothes Washers	13,072	\$976,725	73,842,000
Toilets	5,343	\$434,540	9,392,994
Rain Barrels	1,466	\$58,400	3,225,200
WBIC's	626	\$42,778	6,450,900
Smart Water Monitor	33	\$6,320	542,025
Totals	20,540	\$1,518,763	93,453,119



HOW DID YOU HEAR ABOUT THE PROGRAM



CUSTOMER SERVICE

TOTAL	METRIC
<2	REBATE CYCLE TIME (# WEEKS)
9.8	CUSTOMER SATISFACTION SURVEY - OVERALL REBATE PROGRAM SATISFACTION
9.8	CUSTOMER SATISFACTION SURVEY - LIKELIHOOD TO RECOMMEND



TRADE ALLY PROGRAM



FREE
listing on the
Water Sensible
website



Education
on new
water-saving
products



FREE
marketing
resources and
brochures



Recognition
as a steward
of water
conservation



WATERSMART

Create your free, personal WaterSmart account today!

- See how you use water & where you use it most
- Find ways to save water & reduce your bill
- Compare your usage with similar households
- Sign up for high usage & leak detection alerts

H₂O

Your information is always kept safe & secure. WaterSmart will never sell or provide your personal information to third-party vendors.

Board of Water Supply

Create your account at: honolulu.watersmart.com

TRACK YOUR HOME WATER USAGE

SET ALERTS FOR POSSIBLE LEAKS

IT'S EASY AND FREE!

FIND OUT HOW AT honolulu.watersmart.com

START SAVING TODAY WITH WaterSmart

Learn more here!

bwshonolulu

bwshonolulu WaterSmart portal

Learn how you can take advantage of the WaterSmart portal - a FREE service.

What you'll get:

- Your water usage trends over the past year.
- Alerts for possible leaks or unusual usage.
- Rebate program information and tips on saving water.

#bwshonolulu #water #conservation #rebate #saving #ife #precious

94 views

www.honolulu.watersmart.com

www.honolulu.watersmart.com



WATER WISDOM PROGRAM



Board of Water Supply

New WaterWisdom Program For Condominium Residents

Water is a finite resource, and cutting water usage is essential to ensure an adequate supply today and for future generations. We need to make wise water use a part of our daily routine.

WaterWisdom



Here are some easy ways to use less water:

- Shorten your shower by a minute to save water!
- Turn off your tap when brushing your teeth. This can save approximately 70 gallons of water per month.
- A leaking pipe outside your building or misdirected/broken sprinkler wastes precious water. Report it immediately to your building manager. Remember, an apartment building is a community, and what impacts your building affects everyone.
- Fix drips and faucet leaks in your unit. Drips often go unnoticed since they seem small, but a constant drip can lead to a spike in water consumption, wasting more than 260 gallons of water a year.
- Use your washing machine with full loads only.
- Check for leaks. The most damaging leaks are silent and happen in water heaters, walls, and floors. They also can be destructive and expensive to fix.
- Inspect bathroom fixtures for leaks. A faulty toilet flapper can waste as much as 200 gallons of water per hour.
- Wash fruits and vegetables in a pan or bowl of water instead of under running tap water.
- Use the water from any leftover ice to water your indoor plants.



MULTI-FAMILY OUTREACH

Partnered with Hawai'i Energy and
Hawai'i Green Infrastructure Authority
(HGIA)

Help properties reduce water use &
energy consumption

HGIA offers lower interest & longer-term
financing

Direct Install Program

Kupuna Program



SUCCESS STORY: TROPICANA VILLAGE, 'AIEA

Tropicana Village is a 112-unit townhome community constructed in 1974

Identified as a high-water user during targeted outreach in the region

Mailed informational letters and worked directly with management and residents

Result: A 23% drop in water use over four months—proof that partnership supports conservation



CONSERVATION OUTREACH

Some of the condos & properties that we have worked with:

Country Club Village – Salt Lake
Symphony Honolulu
‘Ewa Villages
Kalele Kai – Hawai‘i Kai
Kuku‘i Plaza – Downtown
College Gardens – Pearl City
Juliana Towers Apartments – ‘Aiea
Palms of Kilani – Wahiawā
Regency Park – Kaimukī
Pu‘u Heleakala – Nānākuli
Tropicana Village – ‘Aiea
Pearlridge Gardens and Tower – Pearlridge
Kāhala Towers - Kāhala



SUCCESS STORY: ALAKEA CORPORATE TOWER



Upgraded Conductivity Controller

\$412.50 Rebate

Saved 93,500 gallons/month after upgrade

\$11,287 annual utility savings



SUCCESS STORY: RAMADA PLAZA

Replace 200 toilets from 3.5 gpf to 1.28 gpf

\$9K rebate (\$45) / \$20K rebate (\$100)

Average Water Savings of 5,000 gallons per day

Over \$17,000 annual utility savings

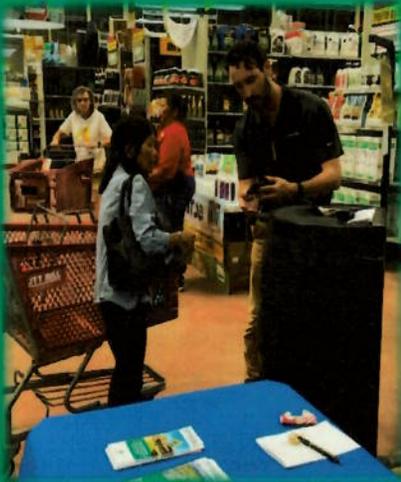
Payback period

10 months (\$45 rebate - self installed)

3 months (\$100 rebate)



WATER SENSIBLE PROGRAM TEAM OUTREACH EVENTS



City Mill's Fall Garden Expo – August 17, 2024



WATER SENSIBLE & CONSERVATION SOCIAL MEDIA

Board of Water Supply
Sponsored

Save precious water by collecting and using rainwater for landscape irrigation.

**CATCH THE RAIN:
SAVE MONEY AND WATER**

BOARDOFWATERSUPPLY.COM
Get a \$40 rebate on a rain barrel!
Find Water Sensible rebates... [Learn more](#)

Like Comment Share

Honolulu Board of Water Supply
Sponsored

The Water Sensible Program offers rebates for products that help you save money and protect O'ahu's precious water.

**Protect
O'ahu's
Water.
Get
Rebates!**

WaterSensible

BOARDOFWATERSUPPLY.COM
See available rebates... [Learn more](#)

Like Comment Share

Honolulu Board of Water Supply
Sponsored (demo)

Earn rebates of \$40-\$200 on water-efficient products that help lower your water bills.

Save water. Save money.

BOARDOFWATERSUPPLY.COM/RESIDENTIALREBATES
Explore available rebates
The Water Sensible Program [Learn more](#)

Like Comment Share

71 1 comment 5 shares



DIRECT MAIL CAMPAIGN

Condos and Apartments

SAVE WATER, SAVE MONEY

Get up to \$100 in rebates by purchasing and installing eligible water-efficient products.

WaterSensible

\$75 REBATE
Efficient washer



\$100 REBATE
Toilet



LIMITED TIME OFFER

Get \$100 back and use up to 60% less water when you purchase and install an EPA WaterSense® toilet.

- Offer valid for purchases made on or after 1/15/24, while funding lasts.
- Rebate and head must be purchased together and use 1.28 gallons per flush or less.
- Limit four per household.



SAY HELLO TO LOWER WATER BILLS



Scan to see all rebate details at
BoardOfWaterSupply.com/ResidentRebates
909.237.8877

Single Family Homes

SAVE WATER INSIDE AND OUT

From washers to rain barrels, get up to \$200 in rebates by purchasing and installing eligible water-efficient products.

WaterSensible

UP TO \$100 REBATE
Washer & toilet together available



\$75 REBATE
Efficient washer



\$100 REBATE
Toilet



50% OFF UP TO \$200 REBATE
Efficient washer and toilet

LIMITED TIME OFFER

Get \$100 back and use up to 60% less water when you purchase and install an EPA WaterSense® toilet.

- Offer valid for purchases made on or after 1/15/24, while funding lasts.
- Rebate and head must be purchased together and use 1.28 gallons per flush or less.
- Limit four per household.



SAY HELLO TO LOWER WATER BILLS



Scan to see all rebate details at
BoardOfWaterSupply.com/ResidentRebates
909.237.8877

<First Name, Middle Initial, Last Name>
<Street Address 1>
<Street Address 2>
<City, State, Zip_Code Zip+4>



MARKETING

2025

JANUARY

Mo	Tu	We	Th	Fr	Sa	Su
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FEBRUARY

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MARCH

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APRIL

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30	31					

AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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30	31					

NYCDesign.co

- February: Water Conservation Contest
- March: World Water Day
- April: Detect-A-Leak
- May: Poster and Poetry Contest
- June: Disaster Preparedness
- July: Smart Irrigation Month
- August: Disaster Preparedness
- September: Disaster Preparedness
- October: Imagine A Day Without Water
- November & December: Holiday Theme



DETECT A LEAK WEEK PROCLAMATION



Proclamation

WHEREAS, O'ahu's limited precious water resources are vital to sustain our high-standard of living and prosperous economy, while maintaining the health and welfare of residents; and

WHEREAS, the City and County of Honolulu's Board of Water Supply (BWS) continues its mission to protect O'ahu's water supply by providing its residents with an abundance of fresh and safe drinking water through more than 2,100 miles of pipeline; and

WHEREAS, residents are called upon to be responsible stewards of this finite resource through regular leak detection, such as the repair of leaky pipes, faucets, irrigation systems, and toilets, and to replace older inefficient toilets with WaterSense (1.28 gallons per flush) labeled models, as an effective way to save water from going to waste; and

WHEREAS, the BWS will observe the annual Detect-A-Leak Week campaign from April 16 - 22, 2023, to promote the significance of leak detection, with an emphasis on the importance of replacing older toilets with WaterSense labeled models; and

WHEREAS, Hardware Hawai'i is co-sponsoring this campaign by contributing four WaterSense labeled toilets to be given away to help consumers save water and money on their water bills; and

WHEREAS, free toilet leak detection dye tablets will be available during Detect-A-Leak Week at Hardware Hawai'i stores, satellite city halls, or in the lobby of the BWS's Public Service building;

NOW, THEREFORE, I, RICK BLANGIARDI, Mayor of the City and County of Honolulu, do hereby proclaim April 16 - 22, 2023, to be

2023 DETECT-A-LEAK WEEK

to strongly encourage O'ahu residents to participate in regular water conservation practices, especially leak detection in homes and places of business.

Done this 16th day of April, 2023,
in Honolulu, Hawai'i.


RICK BLANGIARDI



IMAGINE A DAY WITHOUT WATER

National observance about the importance of water.

6th annual event held Saturday, September 20, at Windward Mall.

Over 20 government & community groups participated.

Featured: exhibits, interactive activities & workshops, including one on rain barrels.



The poster features a central circular illustration depicting the water cycle. It shows a 'Board of Water Supply' on the left, a 'Stream' in the middle, and 'Treated Water' on the right. Other elements include 'Clean Water', 'Storm Water', 'Waste Water', and 'Recycled Water'. The 'Ocean' is at the bottom. The text 'Imagine A Day Without Water' is at the top in large green letters. Below the illustration, the event details are listed: 'SAT., SEPT. 20 | 10 AM - 2 PM' and 'Windward Mall (Center Court)'. A box contains the text: '20+ City, State and Community Partners', 'Free Family Fun Activities', 'Giveaways', and 'Workshops'. At the bottom, there are three logos: the City of Honolulu seal, a stylized water drop logo, and the State of Hawaii seal. The website 'www.boardofwatersupply.com/onewaterhawaii' is at the bottom.

Imagine A Day Without Water

SAT., SEPT. 20 | 10 AM - 2 PM
Windward Mall (Center Court)

20+ City, State and Community Partners
Free Family Fun Activities
Giveaways
Workshops

www.boardofwatersupply.com/onewaterhawaii



HAWAII GREEN BUSINESS PROGRAM (GBP)

WORK WITH BUSINESSES TO:

- Conserve Energy & Water
- Preserve Culture & Natural Resources
- Increase Community involvement
- Prevent Pollution
- Reduce Waste

CATEGORIES:

- Hotel
- Restaurant
- Venue or event
- Office
- Grocery





RAIN BARREL WORKSHOPS

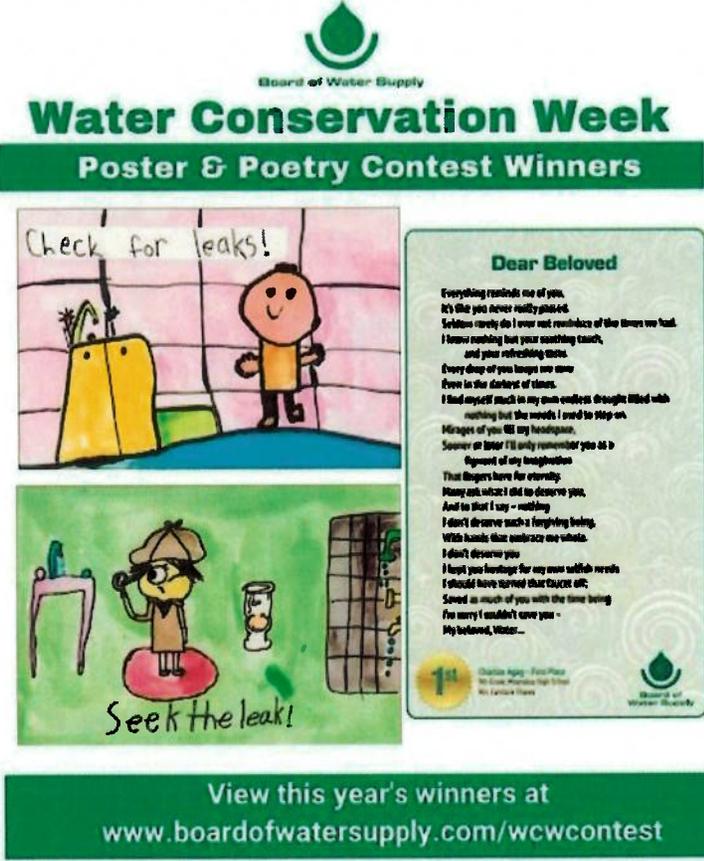


ANNUAL CALENDAR CONTEST

2025 Stats:

- Poster Schools: 46
- Poem Schools: 15
- Number submitted:
 - Posters: 997
 - Poems: 357

2026 Theme – Everyday Conservation



The image displays a poster for the Water Conservation Week Poster & Poetry Contest Winners. At the top, the Board of Water Supply logo is shown, featuring a green water drop icon above the text "Board of Water Supply". Below the logo, the title "Water Conservation Week" is written in a large, bold, green font, with "Poster & Poetry Contest Winners" in a smaller green font underneath. The poster is divided into two main sections. The top section features a drawing of a person in a yellow shirt and blue pants standing next to a yellow water heater. The text "Check for leaks!" is written above the drawing. The bottom section features a drawing of a person wearing a hat and a brown shirt, holding a small container, standing next to a water meter. The text "Seek the leak!" is written below the drawing. To the right of the drawings is a poem titled "Dear Beloved". The poem is written in a small, black font and is surrounded by a decorative border of water droplets. At the bottom of the poster, a green banner contains the text "View this year's winners at www.boardofwatersupply.com/wcwcontest".

Board of Water Supply

Water Conservation Week

Poster & Poetry Contest Winners

Check for leaks!

Seek the leak!

Dear Beloved

Everything reminds me of you,
It's like you never really passed.
Seldom rarely do I ever not remember of the times we had,
I know nothing but your smiling face,
and your refreshing taste.
Every drop of you brings me some
Love in the darkest of times.
I find myself stuck in my own endless thoughts filled with
memories that the words I used to stop on
Mirages of you fill my imagination.
Sooner or later I'll only remember you as a
fragment of my imagination.
That fingers have for eternity
Many are who've tried to deserve you,
And so that I say - nothing
I don't deserve such a forgiving being,
With hands that embrace me whole.
I don't deserve you
I kept you hidden for my own selfish needs
I should have turned that faucet off,
Saved as much of you with the time being
Too sorry I couldn't save you -
My beloved, Water...

1st Grade Age - First Place
No. 1000 - 1000 - 1000
No. 1000 - 1000

Board of Water Supply

View this year's winners at
www.boardofwatersupply.com/wcwcontest



XERISCAPE GARDEN

Jan 2025 – Volunteer group has grown and started educational workshops for the volunteers.

August 2025 – Annual Unthirsty Plant Sale.

Ongoing – Outreach with KHON “Get Dirty” segment, senior groups, schools, parks, community events.

VOLUNTEERS NEEDED

Halawa Xeriscape Garden

Wednesdays & Saturdays

9 AM - Noon

Help maintain the garden
and/or propagate plants
in the nursery.



Interested?

Call (808) 748-5315

or email

workshops@hbws.org
for more details.





Mahalo!

BOARD OF
WATER SUPPLY

Providing safe, dependable, and affordable
drinking water, now and into the future.

ITEM FOR INFORMATION NO. 3

"September 22, 2025

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Six aquifer index stations were in low groundwater condition for the production month of August 2025. Pearl City, Waipahu, Kaluanui, and Waialua are in Caution Status. Punalu'u is in Alert Status. Kaimukī is in Critical Status. The monthly production average for August 2025 was 153.14 million gallons per day.

The Board of Water Supply rainfall index for the month of August 2025 was 18 percent of normal, with a 5-month moving average of 89 percent. As of September 9, 2025, the Hawai'i Drought Monitor shows abnormally dry conditions across most of O'ahu, grading to moderate drought conditions along the entire leeward coast, then to severe drought conditions along a small portion of the southeastern coast. The National Weather Service is forecasting above-normal precipitation beginning in October 2025, through February 2026.

Most monitoring wells exhibited decreasing head levels for the month of August 2025. This likely reflects the lower rainfall over the past several months, combined with seasonally increasing production. Average monthly production for August 2025 is higher than August 2024 and the 5-year monthly average.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Barry Usagawa, Program Administrator, Water Resources Division, gave the report.

Chair Anthony asked what the BWS's next steps are in water conservation.

Manager Lau replied that the BWS is currently in its voluntary conservation phase at 10%. However, the BWS will increase its voluntary

conservation phase by up to 20% and will be asking for the public's help. If conditions continue to deteriorate, the BWS may need to implement mandatory water use restrictions. He mentioned that the Halawa Shaft, Halawa Well, and Aiea Well remain shut down as a precaution due to the Red Hill fuel release. The Kaamilo Wells have also been shut off due to contamination with per- and polyfluoroalkyl substances (PFAS); however, the BWS is in the process of installing a temporary treatment Granulated Activated Carbon (GAC) system. Manager Lau encourages the community to conserve as water demand has risen.

Mr. Usagawa shared that the Kaamilo water treatment system is set to be ready by the end of the year. He recognized Marc Chun, Assistant Program Administrator of the Water Resources Division, who was leading and managing the Kaamilo water treatment project. Mr. Usagawa mentioned that the Aiea-Halawa water system is in an alert water shortage condition this summer; therefore, Kaamilo Wells was turned off. He commented that the Metro area is not on alert and is being monitored. Mr. Usagawa also shared that as the BWS works on its Water Master Plan (WMP), it will investigate unaccounted water, water loss in the BWS system, and the discrepancy between source pumpage and revenue meters, aiming to reduce the water loss percentage.

Mr. Usagawa stated that the Field Operations Division is also doing its part by proactively identifying leaks, utilizing its leak detection system, and repairing them before they become a larger issue. He also mentioned that there is a lot of construction in Ewa, which requires a significant amount of water due to the installation of new pipelines that necessitate flushing and chlorination. Ms. Heller's team is working to expand the recycled water treatment system with a new East Kapolei R-1 reservoir. Mr. Usagawa explained that once the elevated reservoir is turned on, all temporary portable irrigation systems will be connected to the R-1 recycled water system. He stated that numerous efforts are being made to conserve.

Chair Anthony asked when the last time mandatory water restrictions were put into place.

Mr. Usagawa responded that the mandatory water restrictions were implemented in 1983. Low groundwater declarations occurred islandwide in 1993 and 2003 with voluntary conservation. In 2008, a low groundwater condition was declared for the windward Oahu. Mandatory water restrictions are difficult to enforce; therefore, more voluntary water conservation was requested. In the 1980s, the BWS found pesticides in the Waipahu, Kunia, and Mililani wells, which were shut off for a period of time, creating a building moratorium that lasted about five years.

Chair Anthony commented that the Marine Corps is a big water user and inquired about the military's water use.

Mr. Usagawa shared that the BWS provides a water use quarterly report to the Kaneohe Marine Corps Base Hawai'i (KMCBH). Their water

service agreement is limited to an annual water use of 700,000,000 gallons per year or 1.92 million gallons per day (mgd) and not to exceed a maximum of 3 mgd. He recognized Manager Lau's efforts, which have led to the Marine Corps advancing its plans for R-1 recycled water. Mr. Usagawa shared that the KMCBH has recently submitted an environmental assessment to upgrade its wastewater treatment plant to resume R-2 water for its golf course. He explained that if the Marine Corps were able to replace potable irrigation use with an R-1 water system, it would reduce the BWS source production and lessen the environmental and community impacts.

Manager Lau stated that the Marine Corps Base is the BWS's largest single customer in the entire water system and represents a significant part of the water use in windward Oahu. He recognized the support of the congressional delegation, which has helped fund the project, and the base commander, who has placed this effort as a high priority.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF AUGUST 2025**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.06
WAILUPE	0.00
AINA KOA	0.00
AINA KOA II	0.00
MANOA II	0.93
PALOLO	1.45
KAIMUKI HIGH	2.53
KAIMUKI LOW	2.51
WILDER	8.92
BERETANIA HIGH	1.58
BERETANIA LOW	5.09
KALIH I HIGH	3.80
KALIH I LOW	2.65
KAPALAMA	0.79
KALIH I SHAFT	8.42
MOANALUA	0.53
HALAWA SHAFT	0.00
KAAMILO	0.00
KALAUAO	8.45
PUNANANI	12.08
KAAHUMANU	0.28
HECO WAI AU	2.71
MANANA	0.32
WAI ALAE IKI	0.55
WELLS SUBTOTAL:	63.67
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	63.84

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.36
WAIMANALO III	0.00
KUOU I	1.24
KUOU II	0.72
KUOU III	0.69
LULUKU	0.82
HAIKU	0.39
IOLEKAA	0.00
KAHALUU	0.57
KAHANA	0.98
PUNALUU I	0.00
PUNALUU II	3.54
PUNALUU III	0.98
KALUANUI	1.27
MAAKUA	0.31
HAUULA	0.22
WELLS SUBTOTAL:	12.10
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.23
WAIHEE INCL. WELLS	0.31
WAIHEE TUNNEL	4.59
LULUKU TUNNEL	0.22
HAIKU TUNNEL	0.27
KAHALUU TUNNEL	1.64
GRAVITY SUBTOTAL:	7.26
WIND. SUBTOTAL:	19.36

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.52
OPANA	0.97
WAI ALEE I	0.39
WAI ALEE II	0.00
HALEIWA	0.00
WAI ALUA	1.96
N.SHORE SUBTOTAL:	3.85

MILILANI (4)	MGD
MILILANI I	4.27
MILILANI II	0.00
MILILANI III	0.79
MILILANI IV	0.43
MILILANI SUBTOTAL:	5.49

WAHIAWA (5)	MGD
WAHIAWA	1.33
WAHIAWA II	1.61
WAHIAWA SUBTOTAL:	2.94

PEARL CITY-HALAWA (6)	MGD
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	1.07
AIEA GULCH 550	0.23
KAONOHI I	2.12
WAIMALU I	0.00
NEWTOWN	2.34
WAI AU	2.00
PEARL CITY I	0.87
PEARL CITY II	1.09
PEARL CITY III	0.22
PEARL CITY SHAFT	0.95
PEARL CITY-HALAWA SUBTOTAL:	10.90

STATION	MGD
WAI PAHU-EWA (7)	
WAIPIO HTS.	1.95
WAIPIO HTS. I	0.74
WAIPIO HTS. II	0.29
WAIPIO HTS. III	1.27
WAI PAHU	6.57
WAI PAHU II	2.48
WAI PAHU III	3.51
WAI PAHU IV	3.10
KUNIA I	6.77
KUNIA II	2.09
KUNIA III	1.45
HOAEAE	6.22
HONOULIULI I	0.00
HONOULIULI II	5.53
MAKAKILO	0.00
WAI PAHU-EWA SUBTOTAL:	41.95

WAI ANAE (8)	MGD
MAKAHA I	0.87
MAKAHA II	0.00
MAKAHA III	0.83
MAKAHA V	0.06
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAI ANAE I	0.00
WAI ANAE II	0.28
WAI ANAE III	1.19
WELLS SUBTOTAL:	3.23
WAI A. C&C TUNNEL	1.40
WAI A. PLANT. TUNNELS	0.18
GRAVITY SUBTOTAL:	1.58
WAI ANAE SUBTOTAL:	4.81

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.73
BARBERS POINT WELL	1.18
GLOVER TUNNEL NP	0.36
NONPOTABLE TOTAL:	2.27

RECYCLED WATER (JULY 2025)

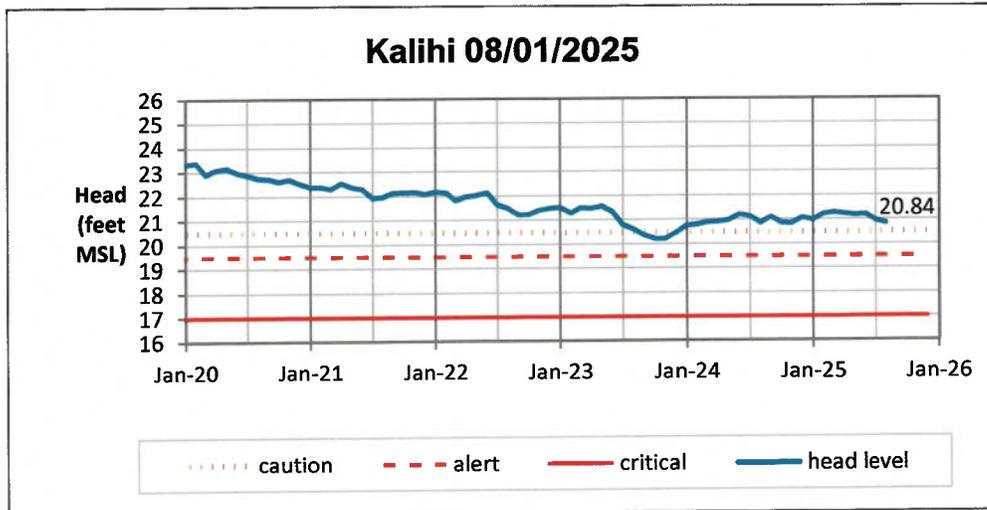
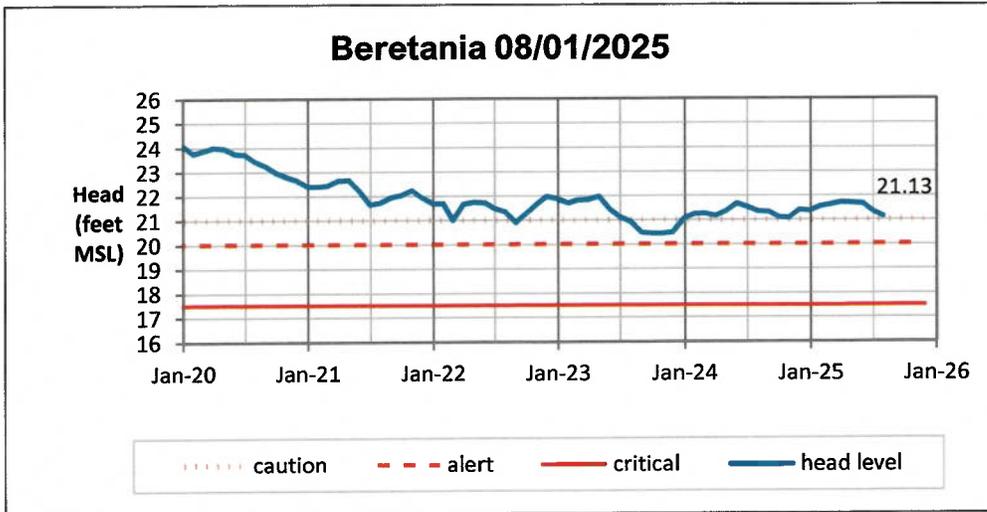
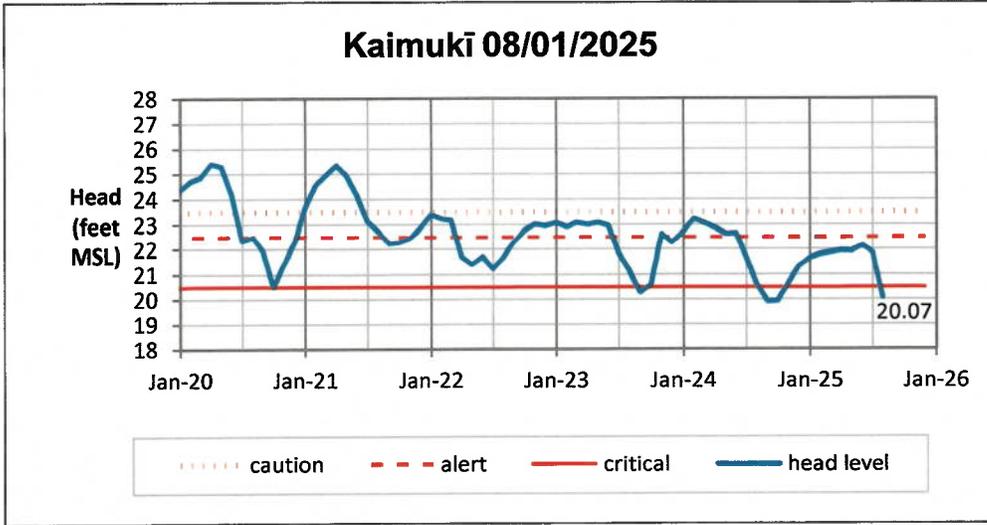
RECYCLED WATER	MGD
HONOULIULI WRF R-1	7.72
HONOULIULI WRF RO	1.50
RECYCLED TOTAL:	9.22

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF AUGUST 2025**

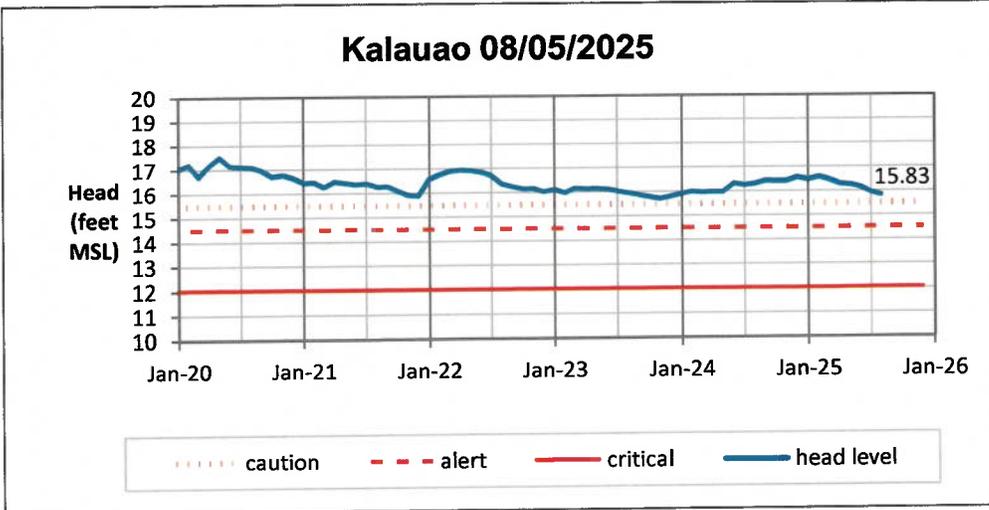
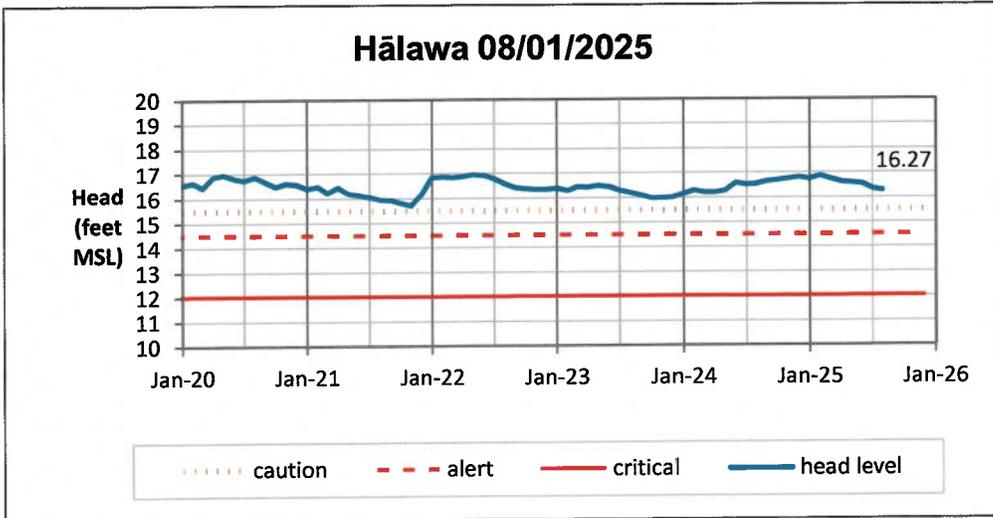
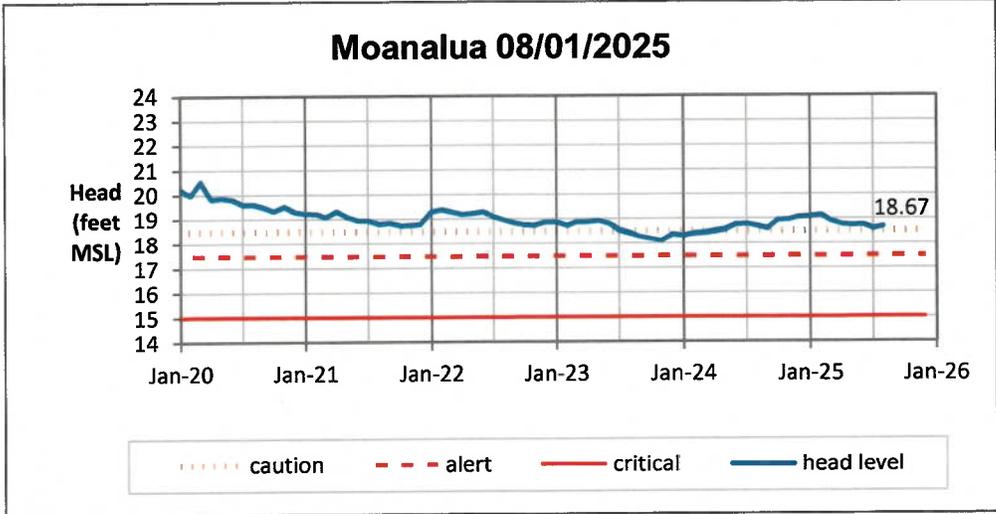
PRODUCTION SUMMARIES		CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES							
TOTAL WATER	MGD	WATER USE DISTRICTS		A	B	WATER USE DISTRICTS		A	B	C			
PUMPAGE	144.13			PERMITTED USE/ BWS YLDS	AUG 2024			DIFF. A-B	PERMITTED USE	AUG 2024	DIFF. A-B		
GRAVITY	9.01	1	HONOLULU	83.32	63.67	19.65	7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.18	-0.18		
POTABLE TOTAL:		153.14	2	WINDWARD	25.02	19.36	5.66	TOTAL:			1.00	1.18	-0.18
NONPOTABLE	2.27	3	NORTH SHORE	4.70	3.85	0.85							
RECYCLED WATER	9.22	4	MILILANI	7.53	5.49	2.04							
TOTAL WATER:		164.63	5	WAHIAWA	4.27	2.94	1.33						
			6	PEARL CITY-HALAWA	12.25	10.90	1.35						
			7	WAIPAHU-EWA	50.63	41.95	8.68						
			8	WAIANAЕ	4.34	4.81	-0.47						
			TOTAL:		192.06	152.97	39.09						

EFFECTIVE WATER DEMAND PER DISTRICT									
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS				WATER USE DISTRICTS					
FROM	TO		MGD	SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND		
2	1	WINDWARD EXPORT	0.10	1	HONOLULU	63.84	0.10	-	63.94
7	8	BARBERS PT LB	6.00	2	WINDWARD	19.36	-	0.10	19.26
				3	NORTH SHORE	3.85	-	-	3.85
				4	MILILANI	5.49	-	-	5.49
				5	WAHIAWA	2.94	-	-	2.94
				6	PEARL CITY-HALAWA	10.90	-	-	10.90
				7	WAIPAHU-EWA	41.95	-	6.00	35.95
				8	WAIANAЕ	4.81	6.00	-	10.81
				TOTAL:		153.14	6.10	6.10	153.14

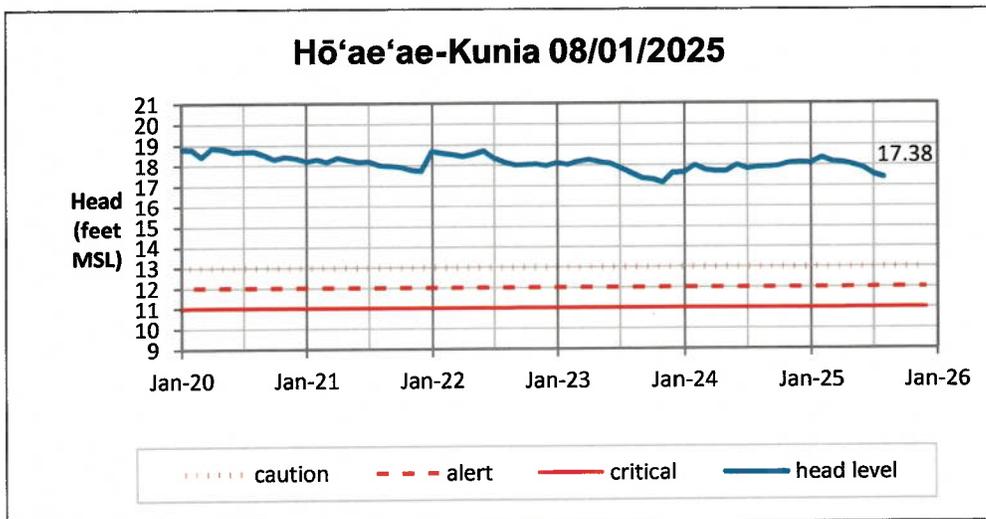
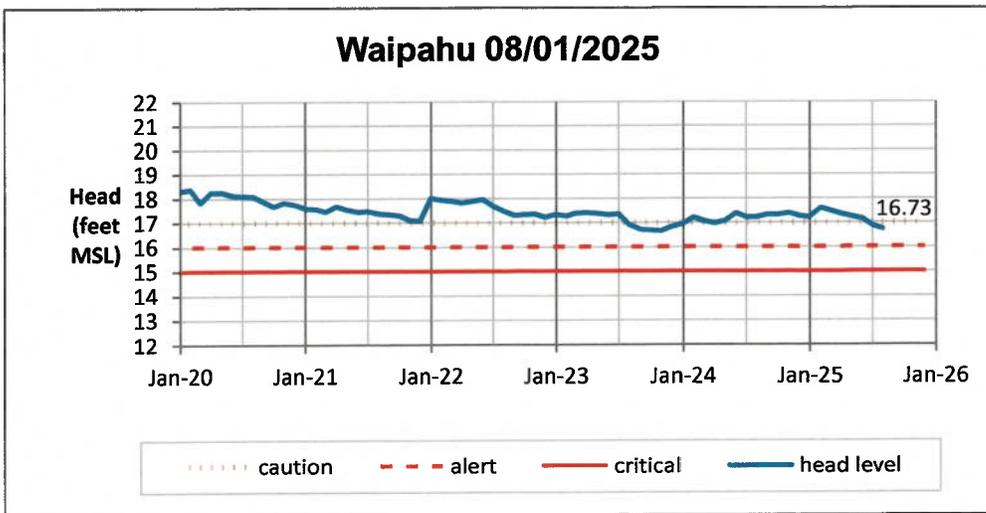
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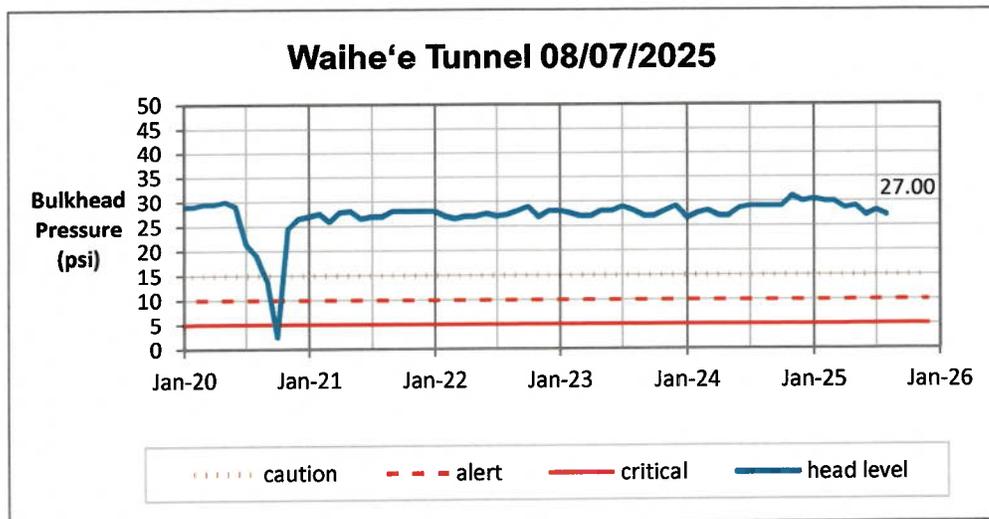
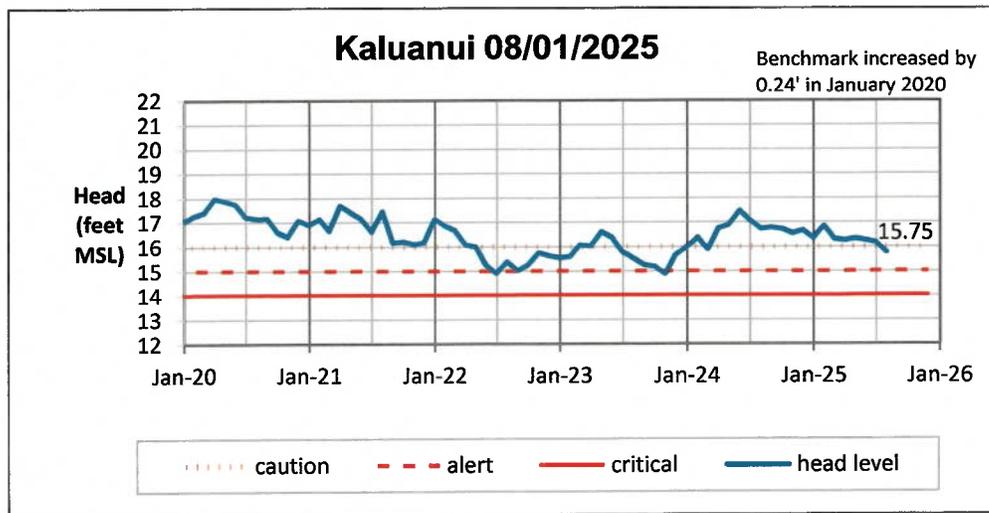
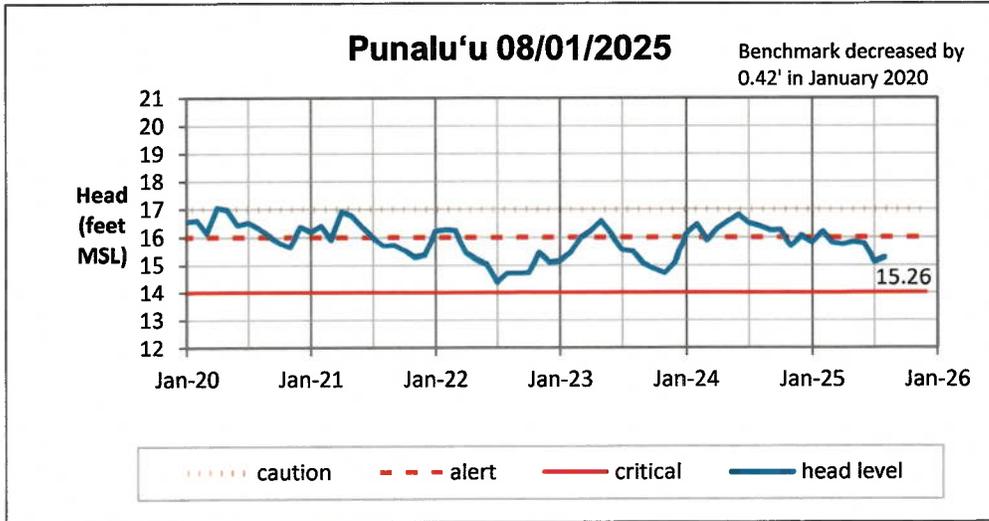
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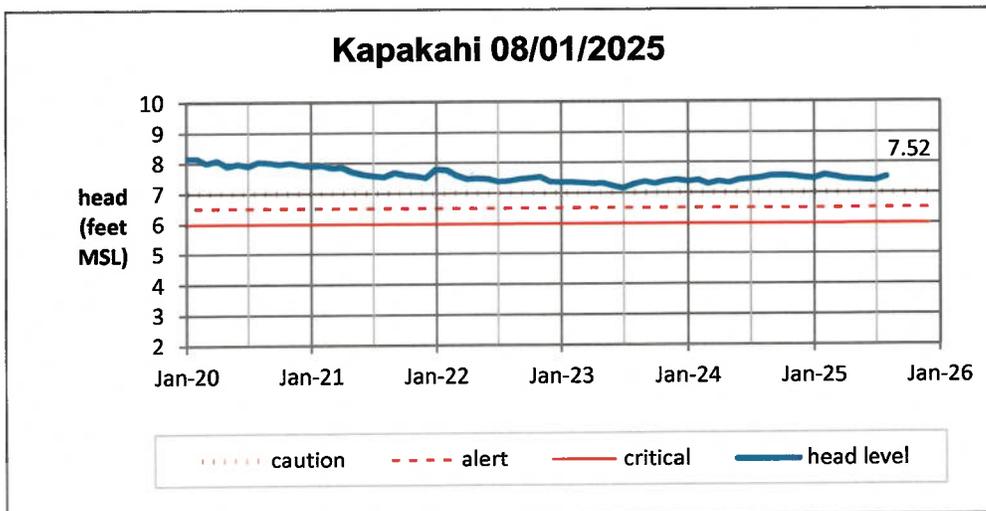
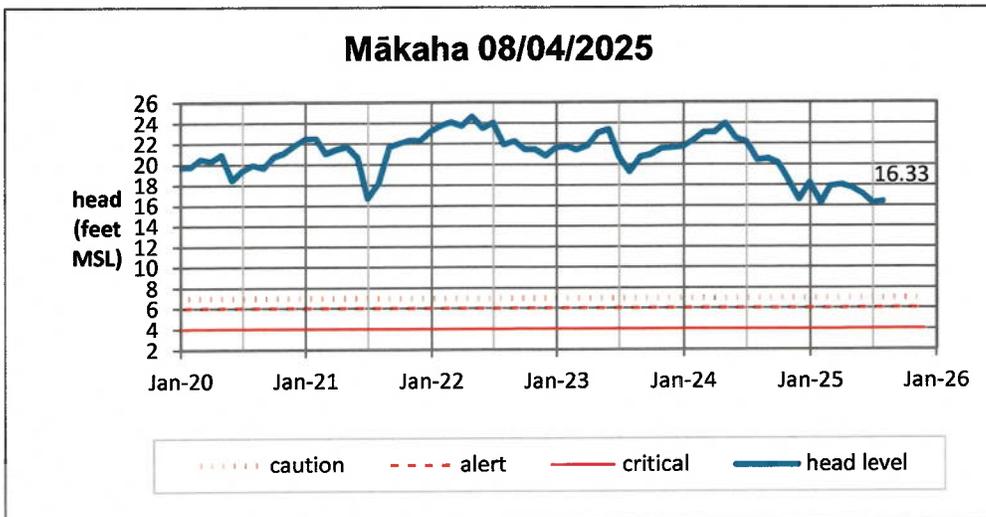
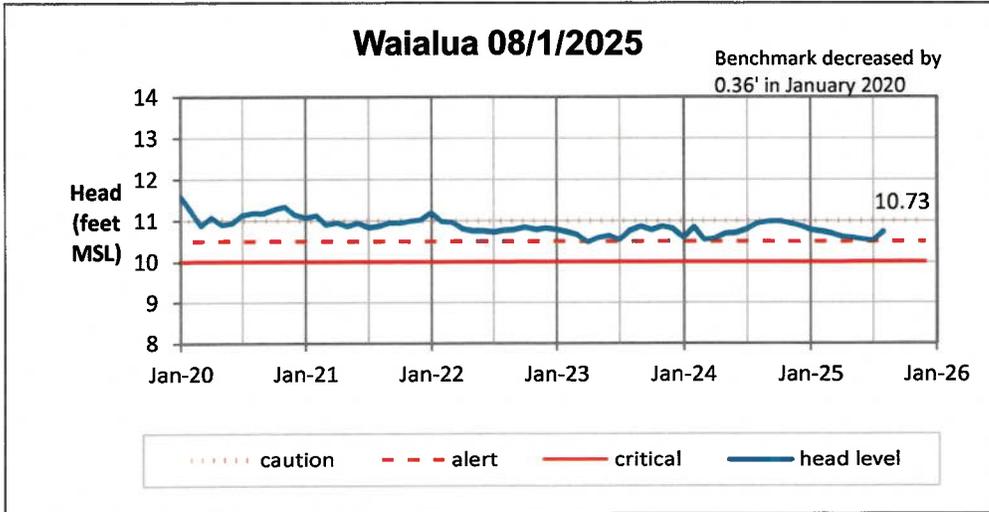
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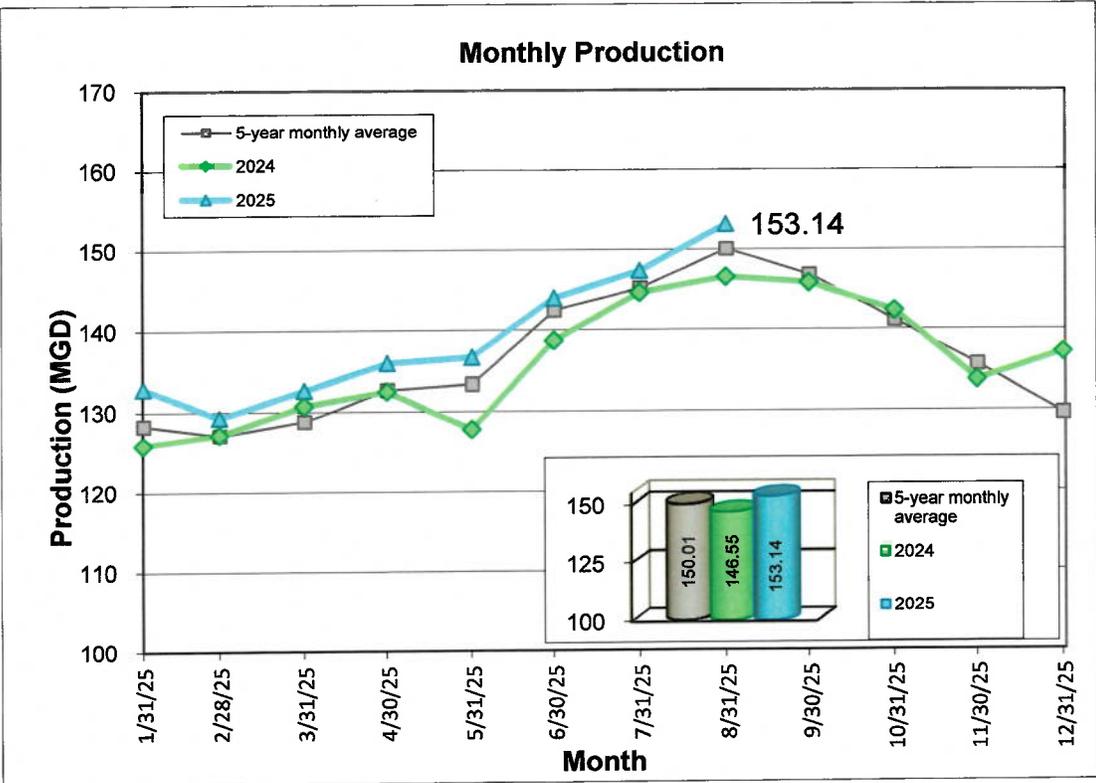
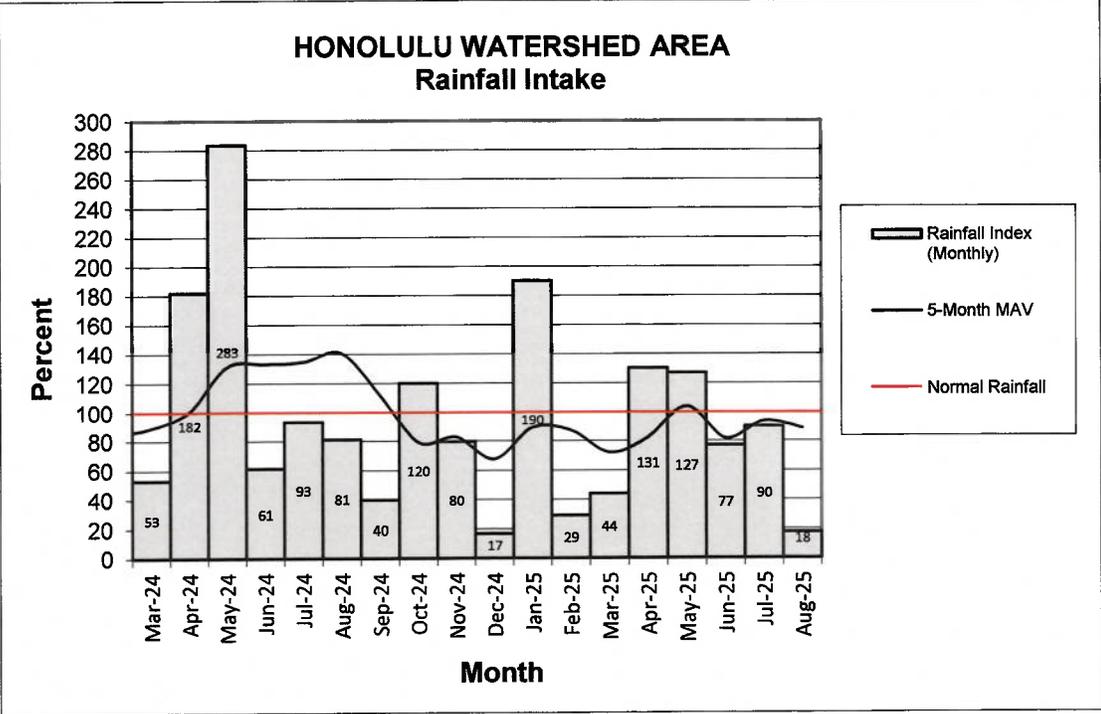


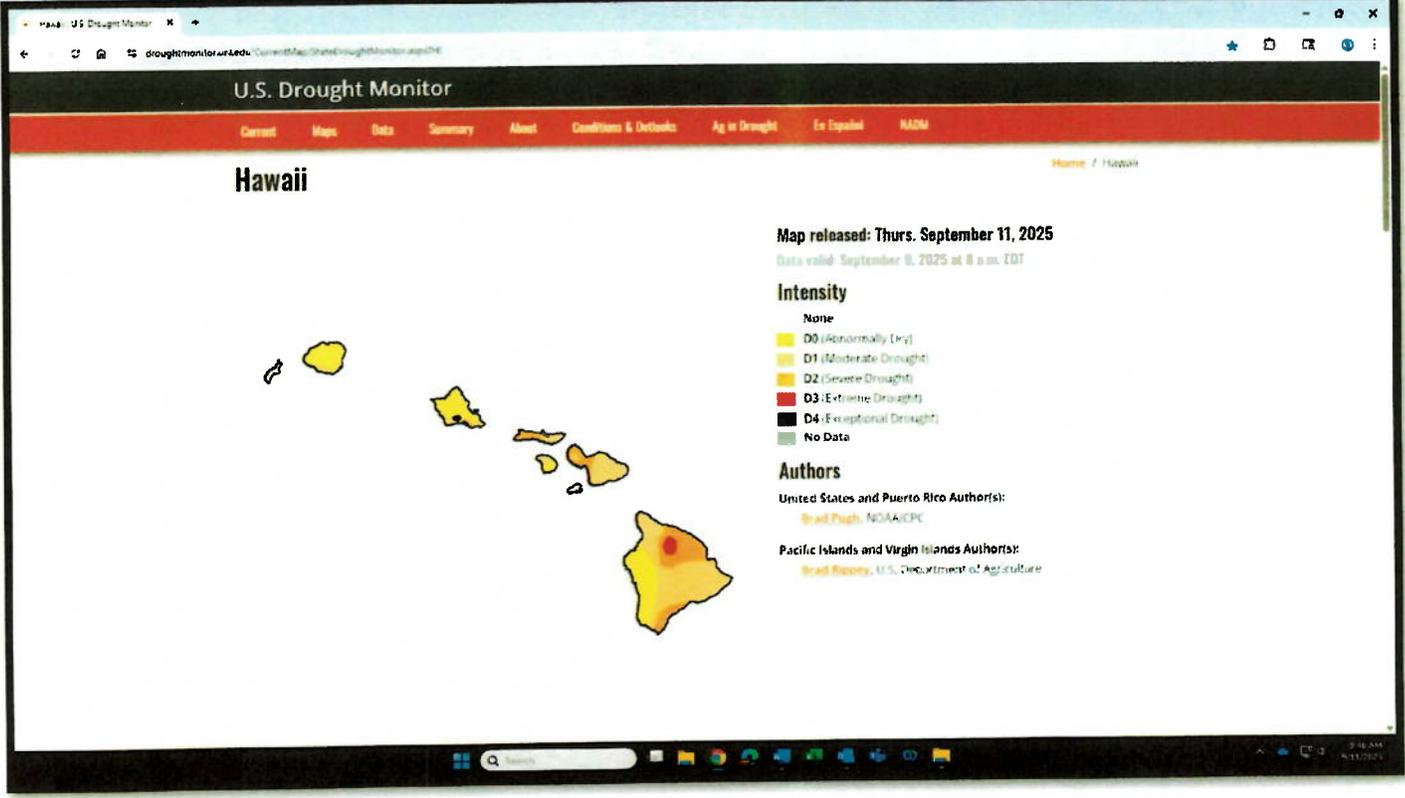
Head Report



Head Report







ITEM FOR INFORMATION NO. 4

“September 22, 2025

WATER MAIN
REPAIR
REPORT FOR
AUGUST 2025

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawai'i 96843

Chair and Members:

Subject: Water Main Repair Report for August 2025

Daniel Lee, Acting Program Administrator, Field Operations Division, will report on water main repair work for the month of August 2025.

Respectfully submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Daniel Lee, Acting Program Administrator, Field Operations Division, gave the report.

Manager Lau stated that leak detection is essential to the program. The ability to leverage technology to enhance the BWS's capacity to locate and repair leaks within the system has been beneficial.

Manager Lau commented that since the Acting Program Administrator, Mr. Wayne Tello, is being honored as the 2025 Employee of the Year, he asked Mr. Daniel Lee to share an idea that Mr. Tello had and flourished.

Mr. Daniel Lee shared that Mr. Tello, amongst a few others, helped recognize the use of couplings on concrete cylinder pipes—before using couplings, repairing a concrete cylinder water main required intensive welding. As a team, the BWS worked with vendors to find products that would work efficiently to fix a pipe.

Manager Lau asked if the damaged section of the pipeline could be spliced and replaced with a new section of pipe.

Mr. Lee replied that the damaged section can be spliced with a section of ductile iron, similar to a regular main break repair.

Manager Lau mentioned a main break in Waimanalo that took nearly a week to weld back together.

Chair Anthony expressed his mahalo for all of the efforts.

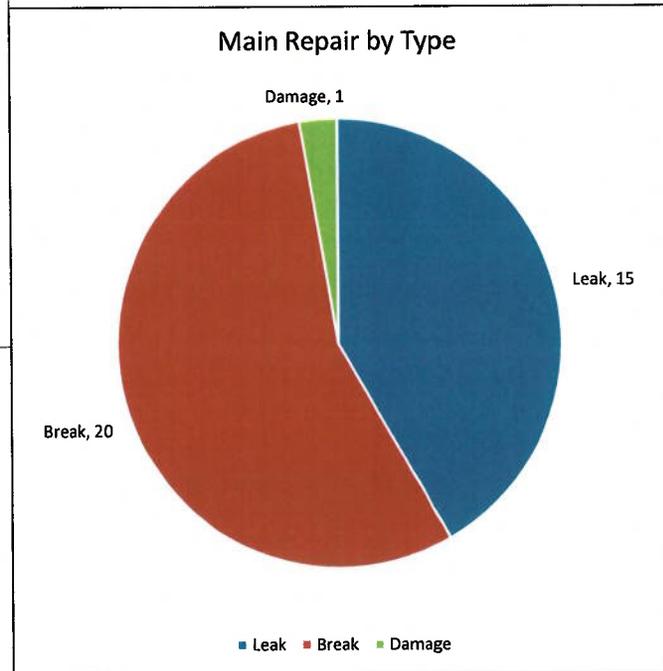
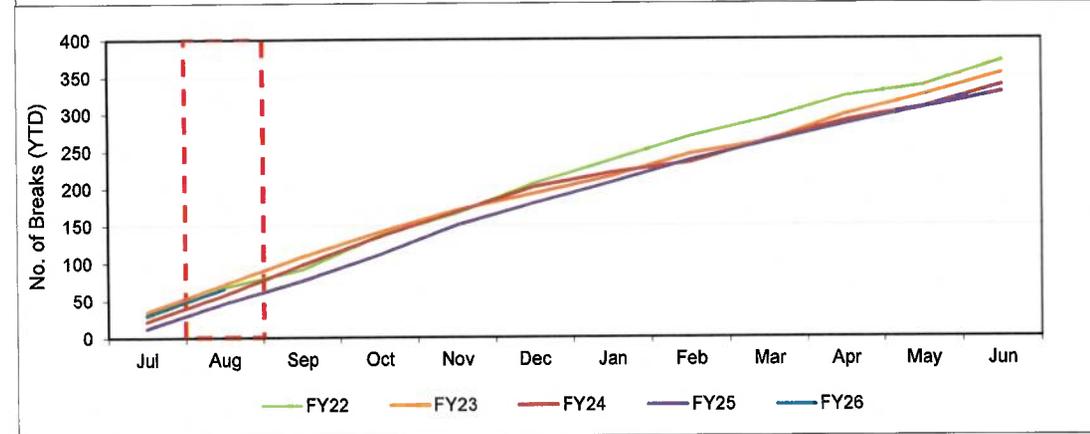
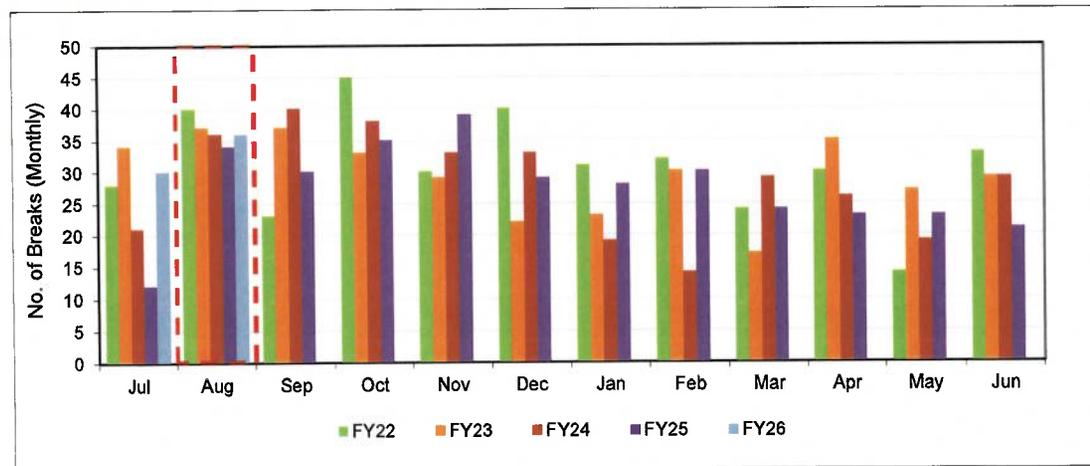
**WATER MAIN REPAIR REPORT
for August 2025**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	30	36	0	0	0	0	0	0	0	0	0	0	66
2025	12	34	30	35	39	29	28	30	24	23	23	21	328
2024	21	36	40	38	33	33	19	14	29	26	19	29	337
2023	34	37	37	33	29	22	23	30	17	35	27	29	353
2022	28	40	23	45	30	40	31	32	24	30	14	33	370

Main Repair by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	12	15	0	0	0	0	0	0	0	0	0	0	27
Break	17	20	0	0	0	0	0	0	0	0	0	0	37
Damage	1	1	0	0	0	0	0	0	0	0	0	0	2
Total	30	36	0	66									



Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
8/1/2025	2459 Aumakua St, Pearl City	8	CI	8/26/2025	3658 Kanaina Ave, Honolulu	6	CI
8/1/2025	98-1434 Kaahumanu St Apt D, Pearl City	8	CI	8/26/2025	95-117 Waikalani Dr, Mililani	8	CI
8/5/2025	94-147 Leokane St #70, Waipahu	12	CI	8/27/2025	215 Kellog St, Wahiawa	8	CI
8/6/2025	94-282 Kahuawai St, Waipahu	8	CI	8/27/2025	45-522 Paleka Rd, Kaneohe	16	CI
8/7/2025	917 Kokea St, Honolulu	12	CI	8/28/2025	2318 Beckwith St, Honolulu	4	CI
8/8/2025	1245 Hoolaulea St, Pearl City	8	CI	8/28/2025	2103 Apaakuma Pl, Pearl City	4	CI
8/8/2025	2632 Kilihau St, Honolulu	4	CI	8/29/2025	3010 Puhala Rise, Honolulu	6	CI
8/11/2025	92-889 Kohupono St, Kapolei	8	CI	8/30/2025	1042 Nanialii St, Kailua	8	PVC
8/12/2025	914 20th Ave, Honolulu	4	CI	8/30/2025	1724 N School St, Honolulu	16	CI
8/13/2025	66-948 Kuewa Dr, Waialua	6	CI				
8/13/2025	92-889 Kohupono St, Kapolei	8	CI				
8/14/2025	2505 Halekoa Dr, Honolulu	8	CI				
8/14/2025	98-1693 Hoolaulae St, Aiea	12	CI				
8/16/2025	2529 Pali Hwy, Honolulu	4	CI				
8/17/2025	2105 Ahapii Pl, Honolulu	8	CI				
8/18/2025	5205 Makalena St, Honolulu	6	CI				
8/18/2025	98-437 Hoomailani St, Pearl City	8	CI				
8/19/2025	767 Ala Moana Blvd, Honolulu	6	CI				
8/19/2025	2022 Pauoa Rd, Honolulu	8	CI				
8/21/2025	45-591 Paleka Rd, Kaneohe	16	CI				
8/22/2025	94-120 Hulahe St, Waipahu	8	CI				
8/22/2025	87-151 Liopolo St, Waianae	8	DI				
8/22/2025	2316 Metcalf St, Honolulu	8	PVC				
8/24/2025	61-889 Kamehameha Hwy, Haleiwa	4	CI				
8/25/2025	6004 Haleola St, Honolulu	8	DI				
8/25/2025	45-536 Duncan Dr, Kaneohe	6	CI				
8/25/2025	45-600 Kamehameha Hwy, Kaneohe	6	CI				

LEAK DETECTION for August 2025

POIs Investigated

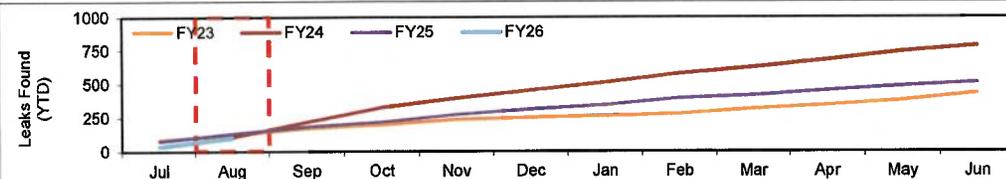
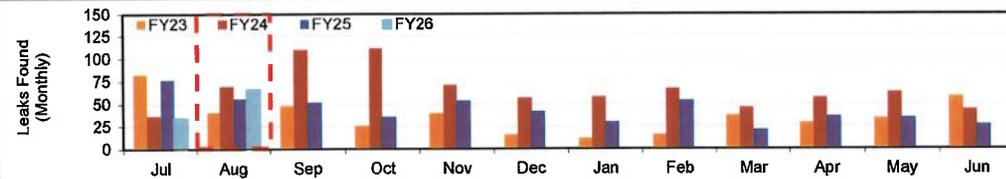
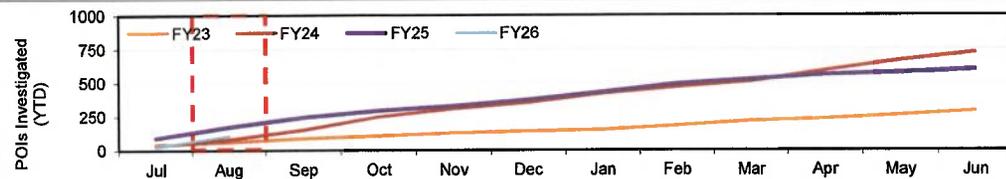
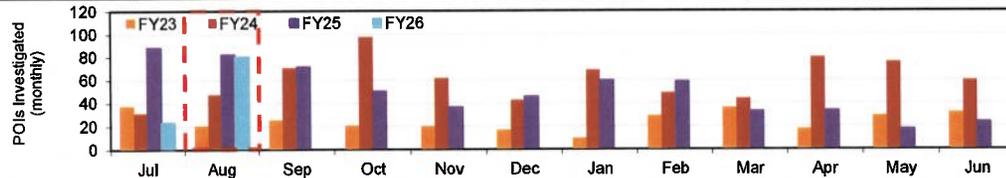
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	23	80	0	0	0	0	0	0	0	0	0	0	103
2025	88	82	71	50	36	45	59	58	32	33	17	23	594
2024	31	47	70	97	61	42	68	48	43	79	75	59	720
2023	37	20	25	20	19	16	9	28	35	17	28	31	285

Leaks Found

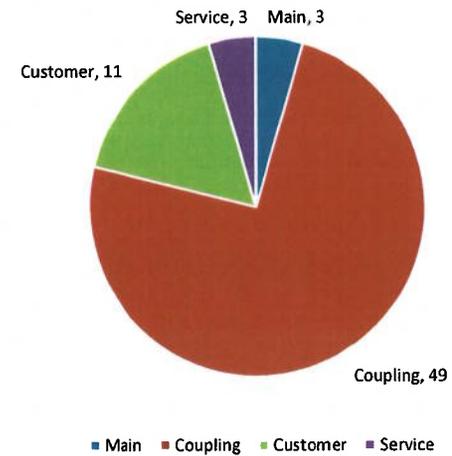
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	34	66	0	0	0	0	0	0	0	0	0	0	100
2025	76	55	51	35	53	41	29	53	20	35	34	26	508
2024	36	69	109	111	70	56	57	66	45	56	62	43	780
2023	82	40	47	25	39	15	11	15	36	28	33	57	428

Satellite Leak by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	2	3	0	0	0	0	0	0	0	0	0	0	5
Coupling	19	49	0	0	0	0	0	0	0	0	0	0	68
Customer	5	11	0	0	0	0	0	0	0	0	0	0	16
Service	8	3	0	0	0	0	0	0	0	0	0	0	11
Total	34	66	0	100									



Satellite Leak by Type



**MOTION TO
ADJOURN**

There being no further business, Chair Anthony, at 3:37 PM, called for a motion to adjourn the Regular Session. Jonathan Kaneshiro so moved, seconded by Gene Albano, and was unanimously carried.

The minutes of the Regular Meeting held on September 22, 2025, are respectfully submitted,

THE MINUTES OF THE REGULAR MEETING HELD ON SEPTEMBER 25, 2025, WERE APPROVED AT THE OCTOBER 27, 2025, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
BRYAN P. ANDAYA	X		
LANCE WILHELM	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		



 JON CRUZ-ACHIU

APPROVED:



 NĀ'ĀLEHU ANTHONY
 Chair of the Board
OCT 27 2025

 Date