

BOARD OF WATER SUPPLY

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



April 18, 2023

RICK BLANGIARDI, MAYOR

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

EDWIN H. SNIFFEN, Ex-Officio

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

ERWIN M. KAWATA
Deputy Manager

NOTICE

The Board of Water Supply, City and County of Honolulu, Public Hearing and Regular Meeting will be held on Monday, April 24, 2023, 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 S. Beretania St., Honolulu, HI 96843.

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, April 24, 2023, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 S. Beretania St., 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:
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 - 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, April 21, 2023, at noon.
 - To testify in person at the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843, please pre-register by submitting your request by Monday, April 24, 2023:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimonyIn-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 Section 92-7.5) are accessible at www.boardofwatersupply.com/boardmeetings.

VIEWING THE MEETING

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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 (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 April 24, 2023, Public Hearing and Regular Meeting of the Board of Water Supply is as follows:

PUBLIC HEARING

1. Proposed Amendment to the Schedule of Rates and Charges for the Furnishing of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023, for the Board of Water Supply to Remain in Effect Until Superseded

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on March 28, 2023
2. Adoption of Resolution No. 963, 2023, Adopting Revisions to the Schedule of Rates and Charges for the Furnishing of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023, for the Board of Water Supply to Remain in Effect Until Superseded
3. Adoption of Resolution No. 964, 2023, Resolution of Appreciation for Ex-Officio Board Member Dawn B. Szewczyk
4. Authorizing a Public Hearing to Consider the Proposed Fiscal Year 2023-2024 Operating and Capital Improvement Program Budget

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Revisions to the Fiscal Year 2023 Operating and Capital Improvement Program Budgets
3. Recruitment Status
4. Status Update of Groundwater Levels at All Index Stations
5. Water Main Repair Report for March 2023

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on March 28, 2023
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board of Water Supply's Proposed Settlement of Claim No. 22-034, Relating to Property Damages at 913 Waioli Street, Honolulu, Hawaii, following an 8" Ductile Iron Main Break at 910 Waioli Street, Honolulu, Hawaii on December 7, 2021 [HRS §92-5(a)(4)]

3. To Consider the Evaluation of the Manager and Chief Engineer, Where Consideration of Matters Affecting Privacy Will be Involved [HRS §92-5(a)(2)]

MINUTES

THE PUBLIC HEARING AND REGULAR MEETING OF THE BOARD OF WATER SUPPLY

April 24, 2023

At 2:00 PM on April 24, 2023, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Public Hearing and Regular Meeting.

Present: Bryan P. Andaya, Chair
Kapua Sproat, Vice Chair via Zoom
Max J. Sword, Board Member
Na'alehu Anthony, Board Member
Jonathan Kaneshiro, Board Member
Edwin H. Sniffen, Board Member via Zoom

Also Present: Erwin Kawata, Deputy Manager and Chief Engineer
Jadine Urasaki, Assistant Program Administrator,
Capital Projects Division via Vimeo
Jennifer Elflein, Program Administrator,
Customer Care Division via Vimeo
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via Zoom
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office
Jason Nikaido, Program Administrator,
Field Operations Division
Joseph Cooper, Waterworks Controller,
Finance Division via Zoom
Michele Thomas, Executive Assistant I,
Human Resources Office
via Vimeo and In-person
Henderson Nuuhiwa, Program Administrator,
Program Administrator, Information
Technology Division via Zoom
Michael Matsuo, Land Administrator, Land Division
via Vimeo
Marc Chun, Civil Engineer VII,
Water Resources Division
Kevin Ihu, Program Administrator,
Water System Operations Division
via Vimeo
Kathy Mitchell, Administrative Services Officer
via Vimeo
Kimberly Kuwaye, Manager Secretary
Joy Cruz-Achui, Board Secretary
Steven Norstrom, Information Specialist II,
Communications Office

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 via Zoom

Others Present:

Jeff Lau, Deputy Corporation Counsel
via Zoom
Moana Yost, Deputy Corporation Counsel
via Zoom

Chair Bryan Andaya welcomed everyone to the April 24, 2023, Public Hearing and Regular Meeting of the Board of Water Supply (BWS). Chair Andaya announced that a Public Hearing would be held first, followed by the Regular Meeting of the Honolulu Board of Water Supply (BWS), but will be taking the agenda out of order.

Before the meeting, Chair Andaya reviewed a few meeting regulations required by law. Board Members attending the Board Meeting remotely must be visible to the public to be considered present and meet quorum guidelines. He also stated that during roll call Board Members participating remotely must disclose their location and anyone that may be present at their location.

Chair Andaya announced that the public is allowed to attend Board Meetings at the BWS Public Service Building, 630 S. Beretania Street, Honolulu, HI 96843, via interactive conference technology.

Chair Andaya requested a roll call for the Public Hearing and Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally and state who is present in the room if participating via Zoom when their names were called. He requested Board Secretary Joy Cruz-Achiu to conduct roll call: Vice Chair Kapua Sproat, aye and alone at her current location; Board Member Max Sword, aye and present in the Board room; Board Member Na'alehu Anthony, aye and present in the Boardroom; and Board Member Jonathan Kaneshiro, aye and present in the Board room. Chair Bryan Andaya was present in the Board room.

At 2:02 PM, Chair Andaya announced that Board Member Edwin Sniffen joined the Board Meeting via Zoom.

Chair Andaya asked all attendees calling in or video conferencing to mute their microphones when not speaking to the audience. When intending to speak, unmute their microphone and identify themselves before speaking.

Chair Andaya also introduced those present in the Boardroom, Deputy Manager Erwin Kawata, Board Secretary Joy L. Cruz-Achiu, Manager Secretary Kimberly Kuwaye, and Information Specialist II Steven Norstrom. Joining via Zoom from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Moana Yost, and Information Specialist II Wayne Maria.

The following procedures are in effect for the meeting:

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to board@hbws.org, by fax to (808) 748-5079; mailed to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843; or online at the boardofwatersupply.com/testimony, which were all due on Monday, April 24, 2023, at noon. However, late testimony will be accepted by email, fax, or mail. Videoconference testimony was accepted by registering at boardofwatersupply.com/testimony by Friday, April 21, 2023. In-person testimony is being accepted at the Board of Water Supply, Public Service Building located at 630 S. Beretania St., Honolulu, HI 96843. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at www.boardofwatersupply.com/boardmeeting.

Chair Andaya also announced the Board Meeting is broadcasted live on the BWS website at www.boardofwatersupply.com/live.

Chair Andaya stated that he would be taking the agenda out of order.

REGULAR MEETING

"April 24, 2023

**ADOPTION OF
RESOLUTION
NO. 964, 2023,
RESOLUTION OF
APPRECIATION
FOR EX-OFFICIO
BOARD MEMBER
DAWN B.
SZEWCZYK**

**Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843**

Chair and Members:

**Subject: Adoption of Resolution No. 964, 2023,
Resolution of Appreciation for Ex-Officio Board Member
Dawn B. Szewczyk**

Ex-officio Board member Dawn B. Szewczyk has notified this Board of Directors that she has resigned from her position as a director.

We recommend the adoption of Resolution No. 964, 2023, to recognize and thank Ms. Szewczyk for her 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: Bryan Andaya, Chair, gave the report.

Chair Andaya and Board Member Na'alehu Anthony expressed their appreciation for Ex-Officio Board Member Dawn Szewczyk's service and wished her well in her new endeavor.

**MOTION
TO APPROVE**

Max Sword and Na'alehu Anthony motioned and seconded, respectively, to approve the Adoption of Resolution No. 964, 2023, Resolution of Appreciation for Ex-Officio Board Member Dawn B. Szewczyk.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

Ms. Cruz-Achiu announced that the motion passed with six ayes.

ADOPTION OF RESOLUTION NO. 964, 2023, RESOLUTION OF APPRECIATION FOR EX-OFFICIO BOARD MEMBER DAWN B. SZEWCZYK WAS ADOPTED ON APRIL 24, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		



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

RESOLUTION NO. 964, 2023

**DAWN B. SZEWCZYK
IN APPRECIATION FOR SERVING AS A MEMBER
OF THE BOARD OF WATER SUPPLY**

WHEREAS, DAWN B. SZEWCZYK has ably served as an ex-officio member of the Board of Water Supply, City and County of Honolulu, since January 2022, and she has recently notified the Board of her resignation; and

WHEREAS, as Director and Chief Engineer of the City's Department of Facility Maintenance, MS. SZEWCZYK's prominence in government and the business community brought additional respect for the Board; and her familiarity with operational and administrative issues involved with managing a City Department made her a helpful resource for Board deliberations and

WHEREAS, DAWN B. SZEWCZYK's prior experience as a Deputy Public Works Officer (DPWO) of the U.S. Department of the Navy, Naval Facilities Engineering Command Far East, Public Works Department Singapore – where she was the primary advisor to the Public Works Officer -- as well as her active roles in local engineering professional organizations -- lent to her credibility in discussions regarding engineering and budgetary matters; and

WHEREAS, MS. SZEWCZYK supported and encouraged proposals for new programs that improve efficiency in overall Departmental operations; and

WHEREAS, as a Board member, MS. SZEWCZYK volunteered her time and expertise to help effect business and policy decisions for the Board that will impact the direction and operations of this Department for many years to come; and

WHEREAS, her service is a testament to her commitment to maintaining a municipal water system deserving of trust from the public it serves; 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 DAWN B. SZEWCZYK our deep appreciation and gratitude for her committed service to this Board and Department; and

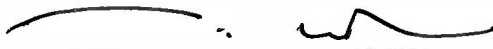
BE IT FURTHER RESOLVED that the Members of this Board extend to DAWN B. SZEWCZYK our sincere aloha and best wishes for continued success in all her future endeavors; and

BE IT FINALLY RESOLVED that this Resolution be presented to DAWN B. SZEWCZYK.



Resolution No. 964, 2023

Adopted this 24th day of April 2023
Board of Water Supply, Honolulu, Hawaii


BRYAN P. ANDAYA
Chair of the Board

PUBLIC HEARING

Chair Andaya stated that the Board of Water Supply Public Notice was published in the April 13, 2023, Star Advertiser. The purpose of this Public Hearing is to allow the public the opportunity to testify on the Proposed Amendment to the Schedule of Rates and Charges for the Furnishing of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023, for the Board of Water Supply to Remain in Effect Until Superseded. He Introduced Ms. Raelynn Nakabayashi.

Ms. Raelynn Nakabayashi stated that the current BWS rates are only authorized through June 30, 2023, therefore, the Board's approval is required to extend the rates past the expiration date.

Ms. Nakabayashi shared Resolution No. 889, 2018, which was adopted in 2018 and included two waivers: one for affordable and homeless dwelling units and the other for residential fire sprinkler retrofits, that benefited the development multiple facilities. She explained the rate schedule and waivers that would be continued as adopted in 2018 and this extension would take effect if the Board approves Resolution No. 963, 2023, which would occur in the regular meeting.

Ms. Nakabayashi also shared the timeline of when the new rate schedule would become effective upon approval from the Board.

Chair Andaya requested at the next Board meeting if the BWS could provide information on the power cost adjustment and if it has been considered.

Chair Andaya closed the Public Hearing at 2:23 PM.

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on MONDAY, APRIL 24, 2023, at 2:00 p.m., or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed Amendment to the Schedule of Rates and Charges of the Board of Water Supply for the Fiscal Years (FY) 2019 through 2023, Effective September 10, 2018 through June 30, 2023 to Remain in Effect Until Superseded by a Revision to the Schedule of Rates and Charges. The Proposed Amendment provides that the Charges: Customer, Quantity & Fire Meter Standby, that became effective on July 1, 2022, and the Waivers: Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units & Waiver of Meter Charges for Residential Fire Sprinkler Retrofits, and Adjustments: Power Cost & Environmental Regulations Compliance Fee, that became effective on September 15, 2018, shall remain in effect until superseded by a revision to the Schedule of Rates and Charges.

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

TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

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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

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BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU AMENDMENT TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE

SCHEDULE TO REMAIN IN EFFECT UNTIL SUPERSEDED

Customer Charge: There is a customer charge each month service is provided based on the meter size, effective as follows:

Meter Size	Effective 7/1/2022, until superseded
5/8" or 3/4"	\$12.09
1"	\$15.28
1.5"	\$17.41
2"	\$43.45
3"	\$53.55
4"	\$101.92
6"	\$181.64
8"	\$276.78
12"	\$598.53

Quantity Charge: In addition to the Customer Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$4.46
Tier 2 2,001 – 6,000 gallons	\$5.25
Tier 3 6,001 – 30,000 gallons	\$5.85
Tier 4 Over 30,000 gallons	\$9.25

Multi-Unit Residential (Monthly per dwelling unit)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$3.77
Tier 2 2,001 – 4,000 gallons	\$4.43
Tier 3 4,001 – 10,000 gallons	\$5.03
Tier 4 Over 10,000 gallons	\$5.98

Continued in the next column...

Customer Class Definitions remain unchanged and are available here:

<https://www.boardofwatersupply.com/bws/media/files/water-rate-schedule-2018-2023-2018-09-15.pdf>

Power Cost Adjustment: When total power, or electricity, costs to the Board of Water Supply exceed the amount used in calculating the annual Schedule of Rates and Charges, then the Quantity Charge may be increased \$0.01 per 1,000 gallons for every \$500,000 incremental power cost overage in the following fiscal year.

Environmental Regulations Compliance Fee Cost Adjustment: The Quantity Charge may be increased \$0.01 per 1,000 gallons for each \$500,000 of additional costs that the Board of Water Supply is required to incur in order to comply with any Federal or State environmental law or regulation.

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units: The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits: The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits.

Non-Residential	Effective 7/1/2022, until superseded
All Usage	\$5.27
Agricultural (Monthly per account)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$4.46
Tier 2 2,001 – 6,000 gallons	\$5.25
Tier 3 Over 6,000 gallons	\$2.12
Non-Potable/Brackish	Effective 7/1/2022, until superseded
All Usage	\$2.90
Recycled Water R-1 Golf	Effective 7/1/2022, until superseded
All Usage	\$0.65
Recycled Water R-1 Other	Effective 7/1/2022, until superseded
All Usage	\$1.96
Reverse Osmosis (RO)	Effective 7/1/2022, until superseded
All Usage	\$6.36

Fire Meter Standby Charge: For those receiving private fire service, there is an additional fire meter standby charge billed monthly based on the size of the fire meter effective as follows:

Fire Meter Size	Effective 7/1/2022, until superseded
2" and smaller	\$7.99
3"	\$10.29
4"	\$14.23
6"	\$28.44
8"	\$52.94



Board of Water Supply

Honolulu Board of Water Supply
630 S. Beretania St. • Honolulu, HI 96843
(808) 748-5041 • contactus@hbws.org
www.boardofwatersupply.com/

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING - BOARD OF WATER SUPPLY RATES

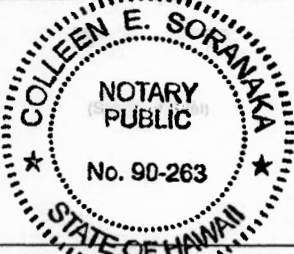
STATE OF HAWAII }
 } SS.
City and County of Honolulu }

Doc. Date: APR 13 2023 # Pages: 1

Notary Name: COLLEEN E. SORANAKA First Judicial Circuit

Doc. Description: Affidavit of Publication

[Signature] APR 13 2023
Notary Signature Date



Lisa Sakakida being duly sworn, deposes and says that she is a clerk, duly appointed to execute this affidavit of Oahu Publications, Inc. publisher of The Honolulu Star-Advertiser, MidWeek, The Garden Island, West Hawaii Today, and Hawaii Tribune-Herald, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the

Honolulu Star-Advertiser 1 times on:
04/13/2023

MidWeek 0 times on:

The Garden Island 0 times on:

Hawaii Tribune-Herald 0 times on:

West Hawaii Today 0 times on:

Other Publications: 0 times on:

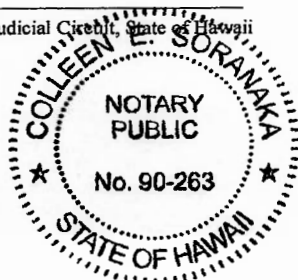
And that affiant is not a party to or in any way interested in the above entitled matter.

[Signature]
Lisa Sakakida

Subscribed to and sworn before me this 13th day of April A.D. 2023

[Signature]
Colleen E. Soranaka, Notary Public of the First Judicial Circuit, State of Hawaii
My commission expires: Jan 06 2024

Ad # 0001411493



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EXTENSION OF THE SCHEDULE
OF RATES AND CHARGES FOR
THE FURNISHING OF WATER
AND WATER SERVICE

Raelynn Nakabayashi

April 24, 2023

www.boardofwatersupply.com

CURRENT RATE SCHEDULE IS AUTHORIZED ONLY THROUGH 6/30/2023 (END OF FY23)

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING In the Board Room, Public Service Building, 630 South Berertania Street, on **MONDAY, AUGUST 27, 2018, at 2:00 p.m.**, or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed Schedule of Rates and Charges of the Board of Water Supply for the Fiscal Years (FY) 2019 through 2023.

Information to be discussed at this public hearing is available at Room 306 of the Public Service Building, Board of Water Supply, 630 South Berertania Street. All comments on or suggested changes to the proposed FY 2019–2023 Schedule of Rates and Charges should be filed in writing before the date of the public hearing or presented in person at the time of the hearing. Persons wishing to speak are requested to register by 1:00 p.m. with Lesley Coon by providing your name, phone number, and subject matter of testimony. Testimony is limited to three minutes and shall be presented by the registered speaker only. Any questions, please call 748-5172. If you require special assistance, auxiliary aid and/or service to participate in this meeting (i.e. sign language interpreter; interpreter for language other than English, or wheelchair accessibility), please call 748-5172 or email your request to board@hbws.org at least three business days prior to the meeting date.

BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU REVISION TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE

Schedule for September 10, 2018 – June 30, 2019 Schedule for July 1, 2019 – June 30, 2023, Continued:

Board action is required to extend rates past June 30, 2023.



BOARD OF WATER SUPPLY
 CITY AND COUNTY OF HONOLULU
 RESOLUTION NO. 889, 2018

ADOPTING THE REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019 – 2023, EFFECTIVE SEPTEMBER 10, 2018 THROUGH JUNE 30, 2023

WHEREAS, after notices of publication, five public hearings were held by the Board of Water Supply on April 26, 2018, May 14, 2018, May 15, 2018, May 24, 2018, and August 27, 2018, for the purpose of considering proposed revisions to the Schedule of Rates and Charges for the Furnishing of Water and Water Service; and

WHEREAS, testimonies presented at said hearings and received in writing through August 27, 2018 on the proposed revisions were given due consideration; and

WHEREAS, the Board of Water Supply held 27 meetings with a Stakeholder Advisory Group to solicit feedback and gather input on the Water Master Plan, Infrastructure Investment Plan, Long Range Financial Plan, and proposed changes to the water rates and charges; and

WHEREAS, the mission of the Board of Water Supply is to provide safe, dependable, and affordable water now and into the future; and

WHEREAS, a Water Master Plan adopted in October 2016 identifies the needs of the Board of Water Supply in order to meet its mission; and

WHEREAS, an Infrastructure Investment Plan was developed from the findings of the Water Master Plan to identify and schedule capital improvements to implement the findings and recommendations in the Water Master Plan in order to meet the mission of the Board of Water Supply; and

WHEREAS, a Long Range Financial Plan adopted by the Board of Water Supply in March 2018 was developed and included a projection of ten-year revenue requirements, evaluation of financing strategies, supporting revised Financial Policies adopted by the Board of Water Supply in May 2017, and assessment of long-term (30-year) trends and risks associated with supporting the Infrastructure Investment Plan; and

WHEREAS, a five-year cost of service and rate study were completed to determine the necessary revenue adjustments to support implementation of the findings in the Water Master Plan and the Infrastructure Investment Plan; and

RESOLUTION 889, 2018

WHEREAS, the Board of Water Supply seeks to increase its annual replacement of pipeline to 21 miles per year over the next decade; and

WHEREAS, the cost of service analysis identified opportunities to adjust rates and charges to better align revenues with the costs to serve different customer classes; and

WHEREAS, the rate study identified opportunities to incentivize efficient use of water within the residential customer classes by changing tiers and rates; and

WHEREAS, the Board of Water Supply recognizes the importance of affordable water to meet essential household needs; and

WHEREAS, the Board of Water Supply recognizes the benefits of a viable local agricultural industry on Oahu and the importance of an affordable supply of water for that industry; and

WHEREAS, the Board of Water Supply recognizes the benefit of encouraging the use of recycled and non-potable water resources as a way to manage and sustain the potable water resources on Oahu; now, therefore

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, that in support of these objectives and the mission of the Board of Water Supply, the Schedule of Rates and Charges be revised, as attached hereto, and that said rates and charges shall become effective from and after September 10, 2018.

ADOPTED:


 BRYAN P. ANDAYA
 Chair

Honolulu, Hawaii
 August 27, 2018

APPROVED

RESOLUTION NO. 889, 2018, ADOPTING THE REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019-2023, EFFECTIVE SEPTEMBER 10, 2018 THROUGH JUNE 30, 2023 WAS ADOPTED ON AUGUST 27, 2018			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
DAVID C. HUIHIEE			ABSENT
KAY C. MATSUI	X		
RAY C. SOON	X		
ROSS S. SASAMURA	X		
JADE T. BUTAY			ABSENT



RESOLUTION 963, 2023

ADOPTING THE REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019 – 2023, EFFECTIVE SEPTEMBER 10, 2018 THROUGH JUNE 30, 2023 TO REMAIN IN EFFECT UNTIL SUPERSEDED



HIGHLIGHTS OF RATE FEATURES TO REMAIN IN PLACE

Customer Class Definitions:

- Potable Water: meets all DOH Health Drinking Water Standards
 - Residential – Single-Family, Duplex Residences & Multi-Unit Residences
 - Agricultural – Parcels devoted to agricultural activities
 - Non-Residential – Properties not used for residential or agricultural purposes
- Non-Potable Water: does NOT meet DOH Health Drinking Water Standards
 - Non-Potable/Brackish
 - R-1 Recycled water
 - R-1 Recycled Water – recycled wastewater that meets DOH Reuse Guidelines
 - R-1 Golf – R-1 used primarily for golf course irrigation
 - R-1 Other – R-1 recycled water for uses other than golf course irrigation
 - Reverse Osmosis (RO) Demineralized Water



RATE SCHEDULE – 07/01/22 RATES TO REMAIN IN PLACE

Schedule for July 1, 2019 – June 30, 2023

Customer Charge

There is a customer charge each month service is provided based on the meter size effective as follows:

Meter Size	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
5/8" or 3/4"	\$10.42	\$10.80	\$11.38	\$12.09
1"	\$13.31	\$13.79	\$14.45	\$15.28
1.5"	\$15.23	\$15.78	\$16.50	\$17.41
2"	\$38.81	\$40.18	\$41.61	\$43.45
3"	\$47.95	\$49.64	\$51.35	\$53.55
4"	\$91.74	\$94.95	\$97.98	\$101.92
6"	\$163.91	\$169.63	\$174.84	\$181.64
8"	\$250.03	\$258.76	\$266.57	\$276.78
12"	\$541.31	\$560.18	\$576.78	\$598.53



Quantity Charge

In addition to the Customer Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.79	\$3.91	\$4.17	\$4.46
Tier 2 2,001 – 6,000 gallons	\$4.46	\$4.60	\$4.90	\$5.25
Tier 3 6,001 – 30,000 gallons	\$5.06	\$5.20	\$5.50	\$5.85
Tier 4 Over 30,000 gallons	\$8.46	\$8.60	\$8.90	\$9.25
Multi-Unit Residential (Monthly per dwelling unit)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.70	\$3.71	\$3.72	\$3.77
Tier 2 2,001 – 4,000 gallons	\$4.35	\$4.36	\$4.38	\$4.43
Tier 3 4,001 – 10,000 gallons	\$4.95	\$4.96	\$4.98	\$5.03
Tier 4 Over 10,000 gallons	\$5.90	\$5.91	\$5.93	\$5.98
Non-Residential	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$5.01	\$5.06	\$5.16	\$5.27
Agricultural (Monthly per account)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.79	\$3.91	\$4.17	\$4.46
Tier 2 2,001 – 6,000 gallons	\$4.46	\$4.60	\$4.90	\$5.25
Tier 3 Over 6,000 gallons	\$1.95	\$1.98	\$2.05	\$2.12

Non-Potable/Brackish	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$2.53	\$2.62	\$2.75	\$2.90
Recycled Water				
R-1 Golf	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$0.57	\$0.59	\$0.62	\$0.65
R-1 Other	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$1.84	\$1.88	\$1.92	\$1.96
Reverse Osmosis (RO)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$5.76	\$5.88	\$6.12	\$6.36



STANDBY CHARGES

Fire Meter Standby Charge

For those receiving private fire service, there is an additional fire meter standby charge billed monthly based on the size of the fire meter effective as follows:

Fire Meter Size	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
2" and smaller	\$6.72	\$6.95	\$7.42	\$7.99
3"	\$8.82	\$9.08	\$9.64	\$10.29
4"	\$12.43	\$12.74	\$13.44	\$14.23
6"	\$25.42	\$25.94	\$27.13	\$28.44
8"	\$47.83	\$48.69	\$50.74	\$52.94

Standby Charge: A Standby Charge will be negotiated by the Manager and Chief Engineer with each private water system contracting for interconnection service. Such service shall be provided only during emergency or temporary service outages with the intent to protect against interrupted water service supporting normal private system requirements. Water used shall be charged at the applicable quantity rate for each thousand gallons.



ADJUSTMENT PROVISIONS – TO REMAIN IN PLACE

When total power, or electricity, costs to the Board of Water Supply exceed the amount used in calculating the annual Schedule of Rates and Charges, then the Quantity Charge may be increased \$0.01 per 1,000 gallons for every \$500,000 incremental power cost overage in the following fiscal year.

Power Cost
Adjustment



The Quantity Charge may be increased \$0.01 per 1,000 gallons for each \$500,000 of additional costs that the Board of Water Supply is required to incur in order to comply with any Federal or State environmental law or regulation.

Environmental
Regulations
Compliance Fee
Adjustment



WAIVER OF WATER SYSTEM FACILITIES CHARGE FOR QUALIFIED AFFORDABLE AND HOMELESS DWELLING UNITS – TO REMAIN IN PLACE

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit. This waiver provision shall expire ~~on June 30, 2023~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.



WAIVER OF METER CHARGES FOR RESIDENTIAL FIRE SPRINKLER RETROFITS – TO REMAIN IN PLACE

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits. This waiver provision shall expire ~~[on June 30, 2023]~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.



WAIVER OF FEES FOR AFFORDABLE, HOMELESS AND FIRE SPRINKLER RETROFIT PROJECTS UPDATE SUMMARY

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified onsite affordable and homeless dwelling units, up to 500 dwelling units per year.

Fiscal Year	# Affordable Dwelling Units	# Homeless Dwelling Units	# Total Qualified Units	\$ Waived WFSC	\$ Waived Meter Costs	\$ Annual Fees Waived
FY 2018 – 2019	76	102	178	\$103,432.03	\$10,332.00	\$113,764.03
FY 2019 – 2020	302	0	302	\$489,770.41	\$14,608.00	\$504,378.41
FY 2020 – 2021	578	0	578	\$789,665.47	\$10,675.00	\$800,340.47
FY 2021 – 2022	514	0	514	\$648,266.54	\$3,024.00	\$651,290.54
FY 2022 – 2023	62	1	63	\$88,559.84		\$88,559.84
TOTALS to date	1532	103	1,635	\$2,119,294.29	\$38,639.00	\$2,158,333.29

Fiscal Year	Fire Sprinkler Retrofit Project	\$ Waived Meter Cost and One-Time Fire Charge
FY 2019 – 2020	Marco Polo	\$13,426.00
TOTALS to date		\$13,426.00



West Loch Modular Housing - \$88K subsidy awarded in FY21



Hale Makana O Maili - \$114K subsidy awarded in FY20



Kokua Elderly Housing - \$251K subsidy awarded in FY22 (est. completion Fall 2023)



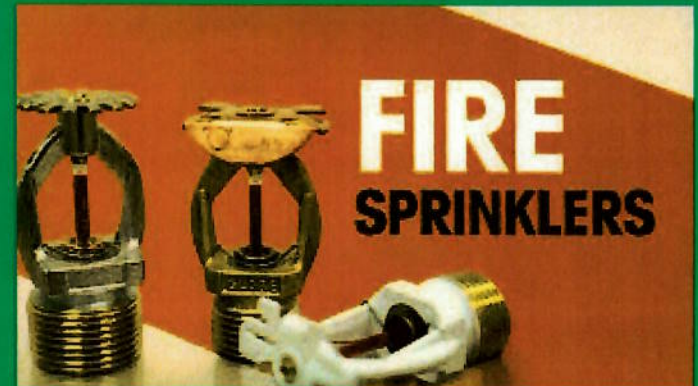
Kauhale Kamaile Modular Homes - \$14K subsidy awarded in FY19



WAIVER OF METER CHARGES FOR RESIDENTIAL FIRE SPRINKLER RETROFITS

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits.

As of March 2023, one waiver has been granted, and fees of \$13,426.00 were waived



NEW RATE ADOPTION TENTATIVE SCHEDULE





Mahalo!

BOARD OF WATER SUPPLY

Extension of the Schedule of Rates and Charges
for the Furnishing of Water and Water Service

April 24, 2023

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

REGULAR MEETING

APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting Held on March 28, 2023.

MOTION TO APPROVE

Na'alehu Anthony and Max Sword motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on March 28, 2023.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

THE MINUTES OF THE REGULAR MEETING HELD ON MARCH 28, 2023, WERE APPROVED AT THE APRIL 24, 2023, BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		

“April 24, 2023

ADOPTION OF
RESOLUTION NO.
963, 2023,
ADOPTING
REVISIONS TO THE
SCHEDULE OF
RATES AND
CHARGES FOR
THE FURNISHING
OF WATER AND
WATER SERVICE
FOR FISCAL
YEARS 2019-2023,
EFFECTIVE
SEPTEMBER 10,
2018, THROUGH
JUNE 30, 2023
FOR THE BOARD
OF WATER SUPPLY
TO REMAIN IN
EFFECT UNTIL
SUPERSEDED

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Adoption of Resolution No. 963, 2023, Adopting Revisions to the Schedule of Rates and Charges for the Furnishing Of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023 for the Board of Water Supply to Remain in Effect Until Superseded

We recommend the adoption of the proposed Extension of the Schedule of Rates and Charges for Furnishing of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023, for the Board of Water Supply to Remain in Effect until Superseded.

The proposed Amendment shall extend the rates and charges that became effective on July 1, 2022, until superseded by revision to the Schedule of Rates and Charges.

A Public Hearing to consider the proposed budget, as required by the City Charter, was held on April 24, 2023. The affidavit attesting to the publication of the Public Hearing notice is attached.

Respectfully Submitted,

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

Attachment”

DISCUSSION:

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, gave the report.

Chair Andaya noted that the BWS has incurred increased power costs, which were not accounted for in the current rates, and the BWS has not passed these increased costs onto ratepayers. But this will be considered and discussed at the next meeting.

Board Member Max Sword referred to a slide that included power cost adjustment and asked why had not been implemented.

Ms. Nakabayashi explained that the power cost adjustment is a feature that could be added to the rates. However, due to widespread economic

pressures relating to COVID and recovering from the pandemic, the Manager decided that the BWS would absorb the additional cost rather than increase the burden on our ratepayers.

Board Member Sword inquired if incorporating power cost adjustment must be decided monthly or yearly.

Ms. Nakabayashi responded that the power cost adjustment is calculated at the close of the fiscal year and, if implemented, incorporated into the rates charged for the entire next fiscal year.

Vice Chair Kapua Sproat commented that increasing rates could get complicated. She stated that water is a human right; therefore, keeping such an essential service affordable was a significant consideration in deciding the current rate schedule. Vice Chair Sproat looks forward to hearing more about the impacts of the power cost adjustment and further indicated the Board should discuss this.

**MOTION
TO APPROVE**

Jonathan Kaneshiro and Na'alehu Anthony motioned and seconded, respectively, to approve the Adoption of Resolution No. 963, 2023, Adopting Revisions to the Schedule of Rates and Charges for Furnishing of Water and Water Service for Fiscal Years 2019-2023, Effective September 10, 2018, through June 30, 2023, for the Board of Water Supply to Remain in Effect Until Superseded.

Chair Andaya requested Board Secretary, Ms. Joy Cruz-Achiu, to conduct the roll call vote.

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Kapua Sproat, aye; Board Member Max Sword, aye; Board Member Na'alehu Anthony, aye; Board Member Jonathan Kaneshiro, aye; Board Member Edwin Sniffen, aye; and Chair Bryan Andaya, aye.

Ms. Cruz-Achiu announced that the motion passed with six ayes.

ADOPTION OF RESOLUTION NO. 963, 2023, ADOPTING REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019-2023, EFFECTIVE SEPTEMBER 10, 2018, THROUGH JUNE 30, 2023, FOR THE BOARD OF WATER SUPPLY TO REMAIN IN EFFECT UNTIL SUPERSEDED WAS APPROVED ON APRIL 24, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 963, 2023

ADOPTING THE REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019 – 2023, EFFECTIVE SEPTEMBER 10, 2018 THROUGH JUNE 30, 2023 TO REMAIN IN EFFECT UNTIL SUPERSEDED

WHEREAS, the mission of the Board of Water Supply is to provide safe, dependable, and affordable water now and into the future; and

WHEREAS, the Board of Water Supply is undergoing a five-year cost of service and rate study to propose new rates and charges for the furnishing of water and water services for the Fiscal Years 2024-2029; and

WHEREAS, the cost of service and rate study process is still underway and not scheduled to be completed by June 30, 2023, when the current schedule of rates and charges for the furnishing of water and water service is set to expire; and

WHEREAS, pursuant to the Revised Charter of Honolulu Section 7-109, the Board has the power to fix and adjust reasonable rates and charges for the furnishing of water and for water services; and

WHEREAS, pursuant to the Revised Charter of Honolulu Section 7-110, a public hearing, which was held on April 24, 2023, is required prior to fixing and adjusting rates; and

WHEREAS, Board action is required to authorize extension of the existing schedule of rates and charges for the furnishing of water and water service beyond June 30, 2023; and

WHEREAS, since the enactment of the rate schedule, a waiver of fees and charges for affordable and homeless projects has helped to subsidize the creation of 1,635 units and waived \$2.16M in fees; and

WHEREAS, since the enactment of the rate schedule, a waiver of meter charges for residential fire sprinkler retrofits has been granted to one project and waived charges of \$13,426; and

WHEREAS, the Board of Water Supply is holding meetings with a Stakeholder Advisory Group and scheduling public meetings to solicit feedback and gather input on the proposed changes to the water rates and charges; therefore

BE IT RESOLVED by the Board of Water Supply, City and County of Honolulu, the Schedule of Rates and Charges be revised, as attached hereto, and that said rates and charges shall remain in effect until superseded by a new Schedule of Rates and Charges.

ADOPTED:


BRYAN P. ANDAYA
Chair

Honolulu, Hawaii

ADOPTION OF RESOLUTION NO. 963, 2023, ADOPTING REVISIONS TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE FOR FISCAL YEARS 2019-2023, EFFECTIVE SEPTEMBER 10, 2018, THROUGH JUNE 30, 2023, FOR THE BOARD OF WATER SUPPLY TO REMAIN IN EFFECT UNTIL SUPERSEDED WAS APPROVED ON APRIL 24, 2023

	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		

Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service

Amended by Resolution No. 889, 2018, effective September 15, 2018, and Resolution No. 963, 2023, effective April 24, 2023.

Schedule for September 15, 2018 – June 30, 2019

Billing Charge

There is a billing charge each time a bill is issued effective as follows:

Sep. 15, 2018
\$9.26

Quantity Charge

In addition to the Billing Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	Sep. 15, 2018
Tier 1 First 13,000 gallons	\$4.42
Tier 2 13,001 – 30,000 gallons	\$5.33
Tier 3 Over 30,000 gallons	\$7.94
Multi-Unit Residential (Monthly per dwelling unit)	Sep. 15, 2018
Tier 1 First 9,000 gallons	\$4.42
Tier 2 9,001 – 22,000 gallons	\$5.33
Tier 3 Over 22,000 gallons	\$7.94
Non-Residential	Sep. 15, 2018
All Usage	\$4.96
Agricultural (Monthly per account)	Sep. 15, 2018
Tier 1 First 13,000 gallons	\$4.42
Tier 2 Over 13,000 gallons	\$1.89
Non-Potable/Brackish	Sep. 15, 2018
All Usage	\$2.47

Customer Class Definitions

Potable Water means all water that meets State Department of Health Drinking Water Standards. For all customers, all potable water used for irrigation will be billed in accordance with the primary usage of the property. Potable water customers are divided into the following classes:

Residential

Single-family residential refers to single-family and duplex residences.

Multi-Unit refers to multi-unit residences including apartments, condominiums and townhouses. Low-rise constitutes up to three stories in height. High-rise refers to higher than three living stories.

Agricultural

Agricultural refers to a parcel devoted to agricultural activities. To qualify for Agricultural Quantity Charges, a customer must submit a written application to the Board of Water Supply and furnish satisfactory proof that they are engaged in agriculture on a commercial basis. Only one dwelling unit will be allowed on a meter qualifying for the agricultural quantity charges. To continue to qualify, the application must be renewed each fiscal year.

Non-Residential

Non-residential refers to any property not used for residential or agricultural purposes. To determine appropriate quantity charges, combinations of residential and non-residential may require separate meters for each use; e.g. separate residential and non-residential meters.

Non-Potable/Brackish

Non-Potable/ Brackish refers to customers that receive non-potable/ brackish water. This water does not meet State Department of Health Drinking Water Standards. The Non-Potable Quantity Charges shall not supersede existing or individually negotiated non-potable quantity charge agreements.

Standby Charge: A Standby Charge will be negotiated by the Manager and Chief Engineer with each private water system contracting for interconnection service. Such service shall be provided only during emergency or temporary service outages with the intent to protect against interrupted water service supporting normal private system requirements. Water used shall be charged at the applicable quantity rate for each thousand gallons. Approval of activation and duration is contingent upon impacts to BWS customers' level of service and BWS's ability to meet Water System Standards requirements. Activation of service will require a written request submitted to the Manager and Chief Engineer at least 48 hours before service is required, unless waived by the Manager and Chief Engineer.

Water service shall be provided in accordance with Board of Water Supply Rules and Regulations Section 1-101 Availability of Water which requires that "the Department have sufficient pressure and water supply available for domestic use and fire protection and can assume new or additional service without detriment to those presently being served."

Power Cost Adjustment: When total power, or electricity, costs to the Board of Water Supply exceed the amount used in calculating the annual Schedule of Rates and Charges, then the Quantity Charge may be increased \$0.01 per 1,000 gallons for every \$500,000 incremental power cost overage in the following fiscal year.

Environmental Regulations Compliance Fee Cost Adjustment: The Quantity Charge may be increased \$0.01 per 1,000 gallons for each \$500,000 of additional costs that the Board of Water Supply is required to incur in order to comply with any Federal or State environmental law or regulation.

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit. This waiver provision shall expire ~~on June 30, 2023~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits. This waiver provision shall expire ~~on June 30, 2023~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.

Schedule [for] beginning July 1, 2019 [~~– June 30, 2023~~] and continuing until superseded by a revision to the Schedule of Rates and Charges.

Customer Charge

There is a customer charge each month service is provided based on the meter size effective as follows:

Meter Size	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
5/8" or 3/4"	\$10.42	\$10.80	\$11.38	\$12.09
1"	\$13.31	\$13.79	\$14.45	\$15.28
1.5"	\$15.23	\$15.78	\$16.50	\$17.41
2"	\$38.81	\$40.18	\$41.61	\$43.45
3"	\$47.95	\$49.64	\$51.35	\$53.55
4"	\$91.74	\$94.95	\$97.98	\$101.92
6"	\$163.91	\$169.63	\$174.84	\$181.64
8"	\$250.03	\$258.76	\$266.57	\$276.78
12"	\$541.31	\$560.18	\$576.78	\$598.53

Quantity Charge

In addition to the Customer Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.79	\$3.91	\$4.17	\$4.46
Tier 2 2,001 – 6,000 gallons	\$4.46	\$4.60	\$4.90	\$5.25
Tier 3 6,001 – 30,000 gallons	\$5.06	\$5.20	\$5.50	\$5.85
Tier 4 Over 30,000 gallons	\$8.46	\$8.60	\$8.90	\$9.25
Multi-Unit Residential (Monthly per dwelling unit)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.70	\$3.71	\$3.72	\$3.77
Tier 2 2,001 – 4,000 gallons	\$4.35	\$4.36	\$4.38	\$4.43
Tier 3 4,001 – 10,000 gallons	\$4.95	\$4.96	\$4.98	\$5.03
Tier 4 Over 10,000 gallons	\$5.90	\$5.91	\$5.93	\$5.98
Non-Residential	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$5.01	\$5.06	\$5.16	\$5.27

Agricultural (Monthly per account)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
Tier 1: Essential Needs First 2,000 gallons	\$3.79	\$3.91	\$4.17	\$4.46
Tier 2 2,001 – 6,000 gallons	\$4.46	\$4.60	\$4.90	\$5.25
Tier 3 Over 6,000 gallons	\$1.95	\$1.98	\$2.05	\$2.12
Non-Potable/Brackish	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$2.53	\$2.62	\$2.75	\$2.90
Recycled Water				
R-1 Golf	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$0.57	\$0.59	\$0.62	\$0.65
R-1 Other	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$1.84	\$1.88	\$1.92	\$1.96
Reverse Osmosis (RO)	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
All Usage	\$5.76	\$5.88	\$6.12	\$6.36

Fire Meter Standby Charge

For those receiving private fire service, there is an additional fire meter standby charge billed monthly based on the size of the fire meter effective as follows:

Fire Meter Size	July 1, 2019	July 1, 2020	July 1, 2021	July 1, 2022
2" and smaller	\$6.72	\$6.95	\$7.42	\$7.99
3"	\$8.82	\$9.08	\$9.64	\$10.29
4"	\$12.43	\$12.74	\$13.44	\$14.23
6"	\$25.42	\$25.94	\$27.13	\$28.44
8"	\$47.83	\$48.69	\$50.74	\$52.94

Customer Class Definitions

Potable Water means all water that meets State Department of Health Drinking Water Standards. For all customers, all potable water used for irrigation will be billed in accordance with the primary usage of the property. Potable water customers are divided into the following classes:

Residential

Single-family residential refers to single-family and duplex residences.

Multi-Unit refers to multi-unit residences including apartments, condominiums and townhouses. Low-rise constitutes up to three stories in height. High-rise refers to higher than three living stories.

Agricultural

Agricultural refers to a parcel devoted to agricultural activities. To qualify for Agricultural Quantity Charges, a customer must submit a written application to the Board of Water Supply and furnish satisfactory proof that they are engaged in agriculture on a commercial basis. Only one dwelling unit will be allowed on a meter qualifying for the agricultural quantity charges. To continue to qualify, the application must be renewed each fiscal year.

Non-Residential

Non-residential refers to any property not used for residential or agricultural purposes. To determine appropriate quantity charges, combinations of residential and non-residential may require separate meters for each use; e.g. separate residential and non-residential meters.

Non-Potable Water means all water that does not meet State Department of Health Drinking Water Standards. It is divided into the following classes:

Non-Potable/ Brackish

Customers that receive non-potable/ brackish water.

R-1 Recycled Water

R-1 recycled water is recycled wastewater that meets State Department of Health Reuse Guidelines.

R-1 Golf are those customers that receive R-1 water used primarily for golf course irrigation.

R-1 Other are those customers that receive R-1 recycled water for uses other than golf course irrigation

Reverse Osmosis (RO) Demineralized Water

RO water is recycled wastewater that has been demineralized through reverse osmosis.

The R-1 Golf, R-1 Other and RO Customer and Quantity Charges shall not supersede existing or individually negotiated charges unless expressly identified in the contract.

Fire Meter Standby Charge

The Fire Meter Standby Charge, for readiness to serve, applies to services used exclusively for private fire protection purposes, including automatic fire sprinkler services connected to the alarm systems, fire hydrants, and wet standpipes. These must be protected against theft and leakage or waste of water. No connections or usage of water for other than fire-fighting and system testing purposes is allowed. In addition, for any misuse or non-fire protection related water use, such usage will be billed at twice the highest quantity charge in effect at that time. For any such misuse or leakage, the Customer shall be subject to penalty pursuant to Chapter 1, Article 3, Section 1-3.1 of the Revised Ordinances of Honolulu. Except for misuse and non-fire protection related use as described above, there are no quantity charges associated with these services.

Standby Charge: A Standby Charge will be negotiated by the Manager and Chief Engineer with each private water system contracting for interconnection service. Such service shall be provided only during emergency or temporary service outages with the intent to protect against interrupted water service supporting normal private system requirements. Water used shall be charged at the applicable quantity rate for each thousand gallons. Approval of activation and duration is contingent upon impacts to BWS customers' level of service and BWS's ability to meet Water System Standards requirements. Activation of service will require a written request submitted to the Manager and Chief Engineer at least 48 hours before service is required, unless waived by the Manager and Chief Engineer.

Water service shall be provided in accordance with Board of Water Supply Rules and Regulations Section 1-101 Availability of Water which requires that "the Department have sufficient pressure and water supply available for domestic use and fire protection and can assume new or additional service without detriment to those presently being served."

Power Cost Adjustment: When total power, or electricity, costs to the Board of Water Supply exceed the amount used in calculating the annual Schedule of Rates and Charges, then the Quantity Charge may be increased \$0.01 per 1,000 gallons for every \$500,000 incremental power cost overage in the following fiscal year.

Environmental Regulations Compliance Fee Cost Adjustment: The Quantity Charge may be increased \$0.01 per 1,000 gallons for each \$500,000 of additional costs that the Board of Water Supply is required to incur in order to comply with any Federal or State environmental law or regulation.

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit. This waiver provision shall expire ~~on June 30, 2023~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits. This waiver provision shall expire ~~on June 30, 2023~~ upon the adoption of a subsequent Revision to the Schedule of Rates and Charges for the Furnishing of Water and Water Service, unless provided for specifically in said Schedule.

NOTICE OF PUBLIC

AFFIDAVIT OF PUBLICATION

IN THE MATTER OF
NOTICE OF PUBLIC HEARING - BOARD OF WATER SUPPLY RATES

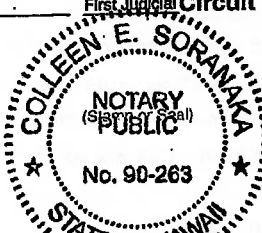
STATE OF HAWAII)
) SS.
City and County of Honolulu)

Doc. Date: APR 13 2023 # Pages: 1

Notary Name: COLLEEN E. SORANAKA First Judicial Circuit

Doc. Description: Affidavit of
Publication

[Signature] APR 13 2023
Notary Signature Date



Lisa Sakakida being duly sworn, deposes and says that she is a clerk, duly authorized to execute this affidavit of Oahu Publications, Inc. publisher of The Honolulu Star-Advertiser, MidWeek, The Garden Island, West Hawaii Today, and Hawaii Tribune-Herald, that said newspapers are newspapers of general circulation in the State of Hawaii, and that the attached notice is true notice as was published in the

Honolulu Star-Advertiser 1 times on:
04/13/2023

MidWeek 0 times on:

The Garden Island 0 times on:

Hawaii Tribune-Herald 0 times on:

West Hawaii Today 0 times on:

Other Publications: 0 times on:

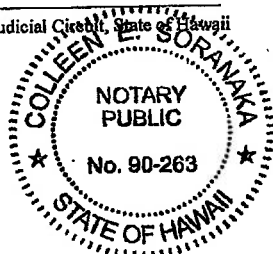
And that affiant is not a party to or in any way interested in the above entitled matter.

[Signature]
Lisa Sakakida

Subscribed to and sworn before me this 13th day of April A.D. 2023

Colleen E. Soranaka, Notary Public of the First Judicial Circuit, State of Hawaii
My commission expires: Jan 06 2024

Ad # 0001411493



NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND CC in the Board Room, Public Service Building, 630 South Beretania Street, on MC where all interested persons shall be afforded the opportunity of being heard or of Rates and Charges of the Board of Water Supply for the Fiscal Years (FY) 20 June 30, 2023 to Remain in Effect Until Superseded by a Revision to the Sched provides that the Charges: Customer, Quantity & Fire Meter Standby, that becar of Water System Facilities Charge for Qualified Affordable and Homeless Dwelli Sprinkler Retrofits, and Adjustments: Power Cost & Environmental Regulations 2018, shall remain in effect until superseded by a revision to the Schedule of Ra Limited seating will be available for in-person testifiers in the Board Room. The the lobby of the Board of Water Supply, Public Service Building, 630 S. Beretan

TESTIMONY CAN BE SUBMITTED AS FOLLOWS:
Written testimony should include the submitter's address, email address, and pl April 24, 2023, at noon. Submit written testimony by:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony
- Mail to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843
- Fax to (808) 748-5079

Oral testimony will be accepted remotely and in person during the meeting. Pre and in-person testimony as reasonably possible during the time allotted. Testifi 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/testimony

Zoom 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, April 21, 2023, at noon.

Testimony is limited to two (2) minutes and shall be presented by the registered electronically or in person, for use in the meeting process is public information. meeting minutes at boardofwatersupply.com/boardmeetings.

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS Section 92-7.5) are accessible at 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

Upon request, this notice is available in alternate formats such as large print, Br

BOARD OF WATER SUPPLY, CITY AND AMENDMENT TO THE SCHEDULE OF RA FURNISHING OF WATER ANI SCHEDULE TO REMAIN IN EFFEC

Customer Charge: There is a customer for charge each month service is provided based on the meter size, effective as follows:

Meter Size	Effective 7/1/2022, until superseded
5/8" or 3/4"	\$12.09
1"	\$15.28
1.5"	\$17.41
2"	\$43.45
3"	\$53.55
4"	\$101.92
6"	\$181.64
8"	\$276.78
12"	\$598.53

Quantity Charge: In addition to the Customer Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$4.46
Tier 2 2,001 - 6,000 gallons	\$5.25
Tier 3 6,001 - 30,000 gallons	\$5.85
Tier 4 Over 30,000 gallons	\$9.25

SPECIAL
If you re an acco (i.e., sign English, or email days pri request we will t but we c

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Tier 2
Tier 3
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NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on MONDAY, APRIL 24, 2023, at 2:00 p.m., or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed Amendment to the Schedule of Rates and Charges of the Board of Water Supply for the Fiscal Years (FY) 2019 through 2023, Effective September 10, 2018 through June 30, 2023 to Remain in Effect Until Superseded by a Revision to the Schedule of Rates and Charges. The Proposed Amendment provides that the Charges: Customer, Quantity & Fire Meter Standby, that became effective on July 1, 2022, and the Waivers: Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units & Waiver of Meter Charges for Residential Fire Sprinkler Retrofits, and Adjustments: Power Cost & Environmental Regulations Compliance Fee, that became effective on September 15, 2018, shall remain in effect until superseded by a revision to the Schedule of Rates and Charges.

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

TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, April 24, 2023, at noon. Submit written testimony by:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony
- Mail to Board of Water Supply, 630 S. Beretania St., 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/testimony

Zoom 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, April 21, 2023, at noon.

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 Section 92-7.5) are accessible at boardofwatersupply.com/boardmeetings.

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

To testify in person at the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843, please pre-register by submitting your request by Monday, April 24, 2023:

- Email to board@hbws.org
- Online at boardofwatersupply.com/testimony

to and from the Board Room. On-site registration will be available for walk-in requests.

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 (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 request will be filled.

BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU AMENDMENT TO THE SCHEDULE OF RATES AND CHARGES FOR THE FURNISHING OF WATER AND WATER SERVICE SCHEDULE TO REMAIN IN EFFECT UNTIL SUPERSEDED

Customer Charge: There is a customer for charge each month service is provided based on the meter size, effective as follows:

Meter Size	Effective 7/1/2022, until superseded
5/8" or 3/4"	\$12.09
1"	\$15.28
1.5"	\$17.41
2"	\$43.45
3"	\$53.55
4"	\$101.92
6"	\$181.64
8"	\$276.78
12"	\$598.53

Quantity Charge: In addition to the Customer Charge, there is a charge for all water used, rounded down to the nearest 1,000 gallons (k-gal), effective as follows:

Single-Family Residential (Monthly per dwelling unit)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$4.46
Tier 2 2,001 - 6,000 gallons	\$5.25
Tier 3 6,001 - 30,000 gallons	\$5.85
Tier 4 Over 30,000 gallons	\$9.25

Multi-Unit Residential (Monthly per dwelling unit)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$3.77
Tier 2 2,001 - 4,000 gallons	\$4.43
Tier 3 4,001 - 10,000 gallons	\$5.03
Tier 4 Over 10,000 gallons	\$5.98

Continued in the next column...

Non-Residential	Effective 7/1/2022, until superseded
All Usage	\$5.27
Agricultural (Monthly per account)	Effective 7/1/2022, until superseded
Tier 1 Essential Needs: First 2,000 gallons	\$4.46
Tier 2 2,001 - 6,000 gallons	\$5.25
Tier 3 Over 6,000 gallons	\$2.12
Non-Potable/Brackish	Effective 7/1/2022, until superseded
All Usage	\$2.90
Recycled Water R-1 Golf	Effective 7/1/2022, until superseded
All Usage	\$0.65
Recycled Water R-1 Other	Effective 7/1/2022, until superseded
All Usage	\$1.96
Reverse Osmosis (RO)	Effective 7/1/2022, until superseded
All Usage	\$6.36

Fire Meter Standby Charge: For those receiving private fire service, there is an additional fire meter standby charge billed monthly based on the size of the fire meter effective as follows:

Fire Meter Size	Effective 7/1/2022, until superseded
2" and smaller	\$7.95
3"	\$10.29
4"	\$14.23
6"	\$28.44
8"	\$52.94

Customer Class Definitions remain unchanged and are available here:

<https://www.boardofwatersupply.com/bws/media/files/water-rate-schedule-2018-2023-2018-09-15.pdf>

Power Cost Adjustment: When total power, or electricity, costs to the Board of Water Supply exceed the amount used in calculating the annual Schedule of Rates and Charges, then the Quantity Charge may be increased \$0.01 per 1,000 gallons for every \$500,000 incremental power cost coverage in the following fiscal year.

Environmental Regulations Compliance Fee Cost Adjustment: The Quantity Charge may be increased \$0.01 per 1,000 gallons for each \$500,000 of additional costs that the Board of Water Supply is required to incur in order to comply with any Federal or State environmental law or regulation.

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units: The Board of Water Supply may waive the Water System Facilities Charges and new meter cost for qualified on-site affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits: The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits.



Board of Water Supply

Honolulu Board of Water Supply
630 S. Beretania St. • Honolulu, HI 96843
(808) 748-5041 • contactus@hbws.org
www.boardofwatersupply.com/

“April 24, 2023

**AUTHORIZING A
PUBLIC HEARING
TO CONSIDER THE
PROPOSED FISCAL
YEAR 2023-2024
OPERATING AND
CAPITAL
IMPROVEMENT
PROGRAM
BUDGET**

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Authorizing a Public Hearing to Consider the Proposed Fiscal Year 2023-2024 Operating and Capital Improvement Program Budget

We recommend that the Board authorize a public hearing to be held at 2:00 p.m. on Monday, May 22, 2023, to consider the resolution to adopt the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2023, and ending June 30, 2024. A Budget Workshop is scheduled on Monday, May 8, 2023, at 2:00 p.m.

Attached is the draft of the “Notice of Public Hearing” to be published prior to the hearing date.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, gave the report. There were comments or discussion.

MOTION TO APPROVE Max Sword and Na’alehu Anthony motioned and seconded, respectively, to Authorize a Public Hearing to Consider the Proposed Fiscal Year 2023-2024 Operating and Capital Improvement Program Budget.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say “Aye.” The Board members present responded with a verbal “Aye.” Chair Andaya then inquired if any Board Members would like to object or vote “Nay” on the motion. There were no objections or “Nay” votes. Chair Andaya announced that the motion was unanimously carried.

AUTHORIZING A PUBLIC HEARING TO CONSIDER THE PROPOSED FISCAL YEAR 2023-2024 OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET WAS APPROVED ON APRIL 24, 2023			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the BOARD OF WATER SUPPLY (BWS), CITY AND COUNTY OF HONOLULU, will hold a PUBLIC HEARING in the Board Room, Public Service Building, 630 South Beretania Street, on Monday, May 22, 2023, at 2:00 p.m. or soon thereafter, where all interested persons shall be afforded the opportunity of being heard on the adoption of the Proposed to the Fiscal Year (FY) 2024 Operating and Capital Improvement Program Budget of the Board of Water Supply, beginning July 1, 2023, and ending June 30, 2024.

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 S. Beretania St., Honolulu, HI 96843.

TESTIMONY CAN BE SUBMITTED AS FOLLOWS:

- Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, May 22, 2023, at noon. Submit written testimony by:
 - Email to board@hbws.org
 - Online at boardofwatersupply.com/testimony
 - Mail to Board of Water Supply, 630 S. Beretania St., 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:

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- Online at boardofwatersupply.com/testimony

Zoom 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, May 19, 2023, at noon.

- To testify in person at the Board of Water Supply, Public Service Building, 630 S. Beretania St., Honolulu, HI 96843, please pre-register by submitting your request by Monday, May 22, 2023:

- 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.

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boardofwatersupply.com/boardmeetings.

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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 (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 request will be filled.

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

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

ITEM FOR INFORMATION NO. 1

“April 24, 2023

**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, Hawaii 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, Civil Engineer IV, Office of the Manager and Chief Engineer,
will give an Update on 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, Civil Engineer IV, Office of the Manager and Chief Engineer,
and Deputy Manager Erwin Kawata gave the report.

Board Member Sword inquired about the monitoring wells at Moanalua
Valley.

Deputy Manager Erwin Kawata responded that the BWS continues
monitoring the area's water. He stated that all wells are currently
operating except for Halawa Wells.

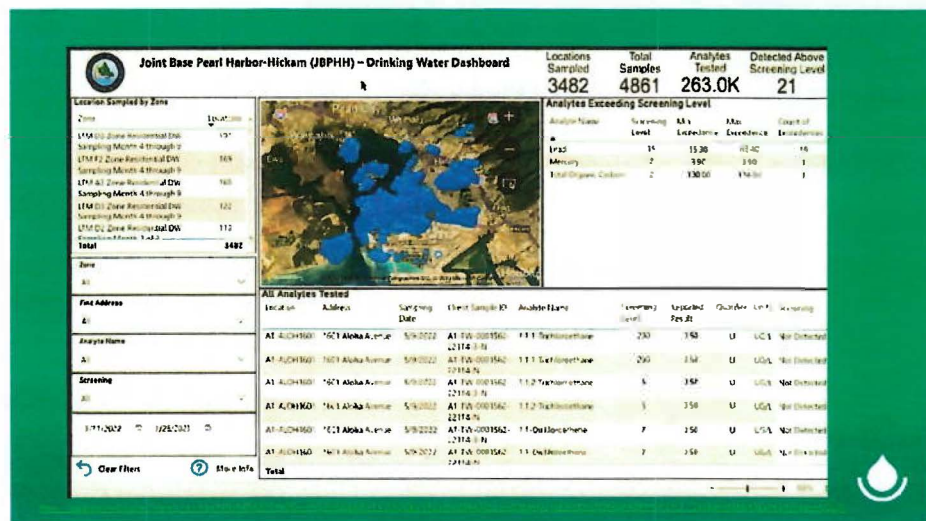
Board Member Sword asked for an update on the two monitoring wells
authorized by the Board.

Deputy Manager Kawata stated that the two monitoring wells are
scheduled for installation in 2024.

Board Member Sword commented that contamination was found in the
Kunia. He inquired if the BWS has any wells near the Kunia Field
Stations and if the BWS discovered any contamination in its testing.

Deputy Manager Kawata replied that the BWS has wells by the Royal
Kunia subdivision but not in the area of Kunia Village. He explained that
the Navy detected Per-and polyfluoroalkyl substances (PFAS) in the
Kunia Village wells. Whereas the BWS has been monitoring downstream
and has had no detections.

Board Member Anthony referred to the Navy's new drinking water dashboard, which reflects the levels of individual households. He inquired if the BWS knew of any changes in how the Navy monitors the contamination from the Red Hill site.



Deputy Manager Kawata stated he isn't aware of anything different regarding the Navy monitoring its wells. However, the BWS continues to ask the Environmental Protection Agency (EPA) and the Department of Health (DOH) for any information available.

Board Member Anthony asked what the BWS hopes to see as the EPA sets its limits for all water source sites islandwide.

Deputy Manager Kawata stated that since the proposed standard is so low, the BWS will continue to monitor its water sources quarterly and test regularly to keep track of any changes. He commented that any change can make a very significant difference. Deputy Manager Kawata explained that the proposed four parts per trillion standard regulation pertain only to Perfluorooctane Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA). The other types of PFAS chemicals that the BWS is detecting currently has no limits or restrictions; therefore, the BWS relies on the DOH's environmental action level (EAL) for guidance. Wells that have detections of PFOS and PFOA will need close monitoring. If levels increase, the BWS will need to prepare and plan for treatment. He shared that the EPA has identified three types of treatment technology in the proposed regulation. However, the BWS Water Resources Division will conduct its own treatment study to evaluate the best ways to treat contaminated water since treatment conditions may differ for each site and the type of PFAS found.

Board Member Anthony inquired if the United States Geological Survey group (USGS) has provided a timeline on the plume's movement.

Deputy Manager Kawata explained that the USGS's focus is to study and produce a model to understand the movement of groundwater, which can help determine the plume's size, shape, changes, and movement. Any additional tracer studies or work proposed would provide other data, help, and information. He stated that the backbone to understanding where the plume is moving is driven by the groundwater model. Deputy Manager Kawata shared that the study began with the 2015 Administrative Order and Consent (AOC), which allowed numerous conversations between stakeholders until 2020 when the Red Hill contamination happened. Since then, the groundwater modeling working group and the various stakeholders have discussed and are working on a schedule to reconvene the work.

Vice Chair Sproat asked who is responsible for leading the groundwater modeling group.

Deputy Manager Kawata replied that the regulatory agencies, the DOH, and the EPA, are leading the group. Previously, during the 2015 AOC, the Navy was leading the groundwater modeling group; however, after the Red Hill contamination, the responsibility shifted to the regulatory agencies.

Vice Chair Sproat inquired about the Commission on Water Resources Management's (CWRM) interest and role in the groundwater modeling working group.

Deputy Manager Kawata responded that CWRM has always been involved and included in the groundwater round table discussions. He explained that with the amount of contamination, PFAS, found in water, their interest is even more significant and will play a more prominent role in overseeing the groundwater modeling work.

There were two remote testifiers:

<p>Meredith Wilson</p>	<p><i>Stated how disheartened she is that the groundwater monitoring is not done. Commented on two surveys conducted by the Nakapuna Companies regarding repurposing of Red Hill Bulk Fuel Storage Facility. She also provided written testimony.</i></p>
<p>Susan Pcola-Davis</p>	<p><i>Registered, but didn't join the session yet. Will advise when she joins the meeting.</i></p>

M Wilson-BWS 24 April 2023 Board Meeting
Red Hill Public Comment

Aloha, my name is Meredith Wilson and I lived in military housing at Joint Base Pearl Harbor-Hickam for 5 years. I loved my temporary island home and was so proud to work within the hospitality and nonprofit sectors there on Oahu while my husband served there. It was my delight to welcome visitors and make them feel comfortable, but also leave them with a sense of respect for this special place that they may not have gotten otherwise.

The aina, now in many more ways than one, became a teacher to me. I didn't want to learn a lot of things I've been learning in the past year & a half, like Total Petroleum Hydrocarbons, EALs, PFAS. Believe me, I used to sing in a band on that island, I didn't care about stuff like that. I was busy learning lyrics to songs, not trying to figure out the carbon range breakdown of jet fuel that I ingested and showered in at my home that made my feel like a zombie for months on end.

I say these things to illustrate that I'm still very connected to what happened to us there. I care just as much for the next military family living in my house as I would for my own.

I noticed that the Nakapuna company will conduct two separate surveys regarding the repurposing of Red Hill. The 1st is an online qualitative survey available to the general public, but the 2nd is going to be a quantitative survey intended for residents in the neighboring areas plus online for Oahu residents only. The reasoning on the website is explained that the 2nd will build upon the 1st, but I'm imploring that we who were affected by this water resource be supported in that we're included in all aspects of the process.

I wanted to thank specifically Ms. Kathleen Elliott-Pahinui who replied to my last month's questions very thoroughly and thoughtfully in an email and included several helpful attachments. Just when I think BWS has fought tooth & nail for the public, I see yet more letters they've written on behalf of the people to protect them and they've gone unanswered.

Specifically on Page 13 of a letter written by Manager Lau to the EPA & DOH on Oct. 3, 2016, Mr. Lau makes the case to add back DiEGME or 2,2-methoxy ethoxy ethanol (antifreeze) to the COPC list after the EPA approved the reduced list in Feb. of the same year.

He suggested that DOH direct the Navy provide more specific evidence that the chemical has a "short half-life" as they stated in their prior reasoning to remove it from being monitored.

BWS' review of the studies used for this half-life measure represented conditions expected in a sewage treatment plant and NOT in a subsurface or groundwater environment. The estimated half life would be DOUBLE that of the other study (which was 2-16 days) a.k.a. it may persist at higher level for longer.

I've just begun to look at some of the other documents, but the more I know, the more I'm disturbed. Did the Department of Health ever ask the Navy to go back and change the COPC list because of this finding?

Thank you again for all that you all do. #OlaKaWai

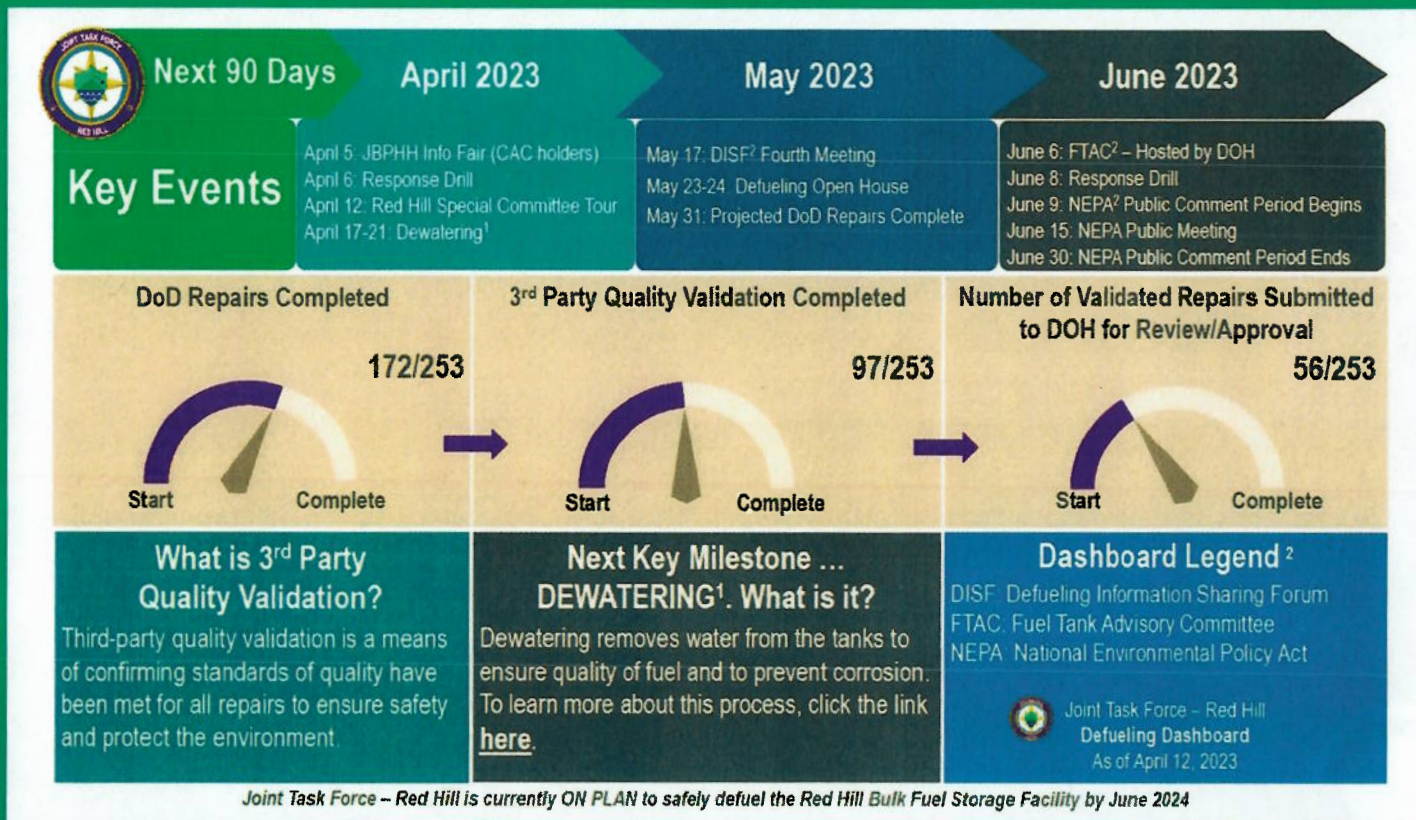


APRIL 2023 RED HILL UPDATES

April 24, 2023
boardofwatersupply.com

Defueling Schedule Update at Red Hill

<https://www.pacom.mil/JTF-Red-Hill/Joint-Task-Force-Red-Hill>

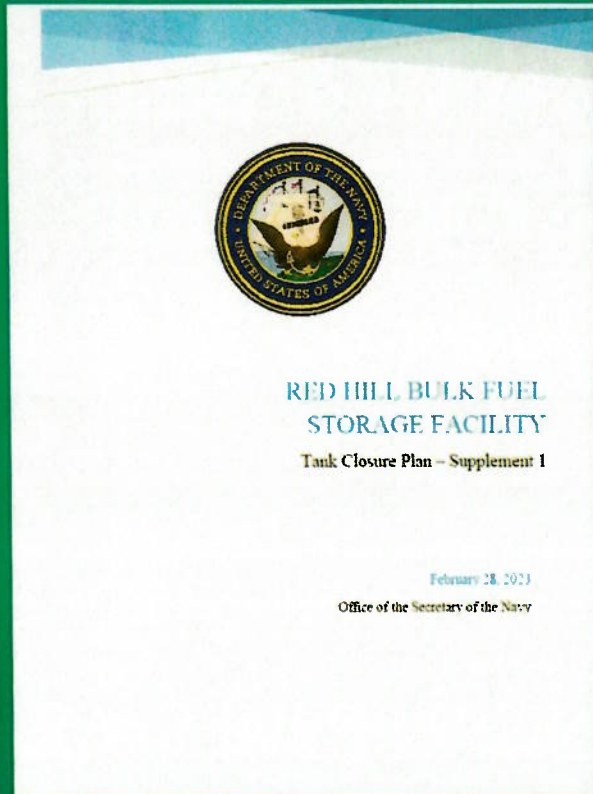


Joint Task Force – Red Hill is currently ON PLAN to safely defuel the Red Hill Bulk Fuel Storage Facility by June 2024

Dashboard as of April 12, 2023



Closure of Red Hill Bulk Fuel Storage Facility



CLOSURE PLAN SUPPLEMENTAL 1 –FEBRUARY 28, 2023

- Alternative 1: Closure In-Place
- Alternative 2: Closure In-Place and Preparation for Non-Fuel Reuse
- Alternative 3: Closure with Fill
- Alternative 4: Remove Tank Steel Liner, and Fill

NAKUPUNA COMPANIES

- Potential beneficial non-fuel reuse

CLOSURE PLAN SUPPLEMENTAL 2 –MAY 2023

- Additional information on permanent closure method

TANK CLOSURE: AUGUST 2027



BWS Funding Diversification Effort Updates

FEDERAL FUNDING:

- ARPA Funding Commitments totaling \$50.3M (for 5 Projects)
- Three (3) Pending Requests for Congressionally Directed Spending Appropriations totaling \$15.1M
 - 30 Letters of Support received

STATE FUNDING (through 2nd Cross Over):

- HB1511 (Grant in Aid) – Amount TBD, Dollar for Dollar Match Required
- HB300 (General Appropriations) - \$5M State, \$5M BWS Match?

LOW INTEREST LOAN PROGRAMS:

- WIFIA (Invitation to Apply) and DWSRF (ProFi \$20M)



Red Hill Remediation Roundtable (RHRR)

APRIL 13, 2023

RED HILL GROUNDWATER SAMPLING MAPPING APP

- Live on June 1, 2023
- Sampling data from Navy monitoring wells

TRACER STUDY

- Office of Naval Research and University of Hawaii (Dr. Don Thomas)

NOVEMBER 29, 2022 AFFF RELEASE INVESTIGATION REPORT STATUS PENDING

EPA & DOH TO HOLD PUBLIC INFORMATION WEBINARS SERIES

- Drinking Water Monitoring –April 20, 2023
- 2023 Consent Order –June 1, 2023
- Groundwater Sampling Mapping App –TBD



EPA-DOH Red Hill Webinar

APRIL 20, 2023

LONG TERM MONITORING (LTM) PROGRAM

INTERACTIVE SAMPLING RESULT MAP

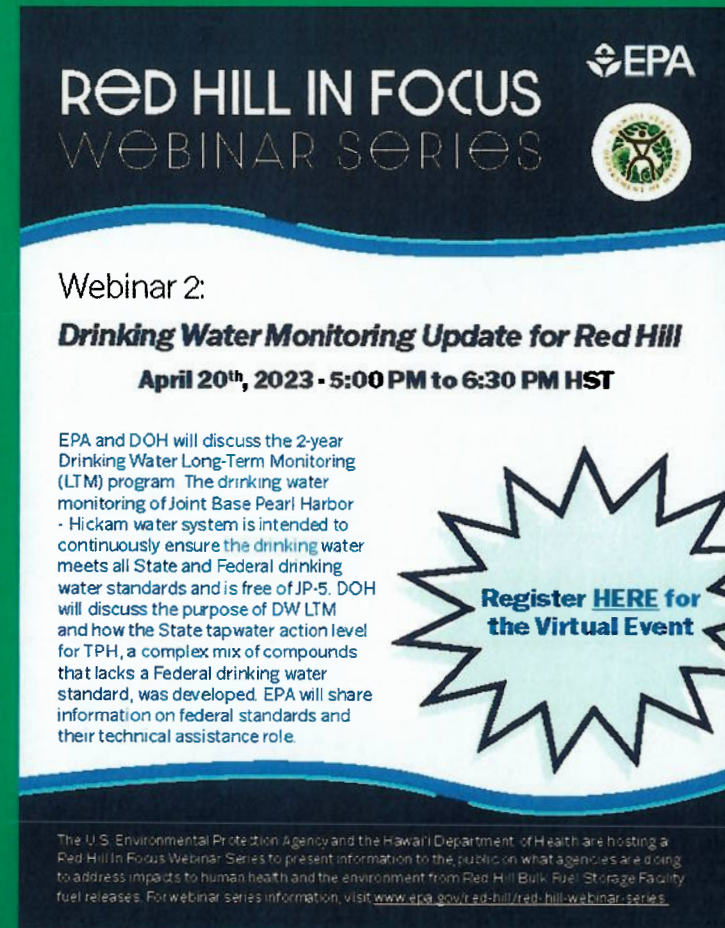
[JBPHH-Drinking Water Dashboard](#)

FUEL STUDY BY HAWAII DEPARTMENT OF HEALTH

- Report to come May-June 2023

• RECORDING AND PRESENTATION

<https://www.epa.gov/red-hill/red-hill-webinar-series>

A promotional poster for the 'Red Hill In Focus Webinar Series'. The top section is dark blue with the EPA logo and the text 'RED HILL IN FOCUS WEBINAR SERIES' in white. Below this is a white section with a blue wavy border at the top and bottom. The text in this section includes 'Webinar 2: Drinking Water Monitoring Update for Red Hill' and the date 'April 20th, 2023 - 5:00 PM to 6:30 PM HST'. A paragraph of text describes the 2-year Drinking Water Long-Term Monitoring (LTM) program. A starburst graphic contains the text 'Register HERE for the Virtual Event'. The bottom section is dark blue with small white text providing details about the webinar series.

RED HILL IN FOCUS
WEBINAR SERIES

EPA

Webinar 2:
Drinking Water Monitoring Update for Red Hill
April 20th, 2023 - 5:00 PM to 6:30 PM HST

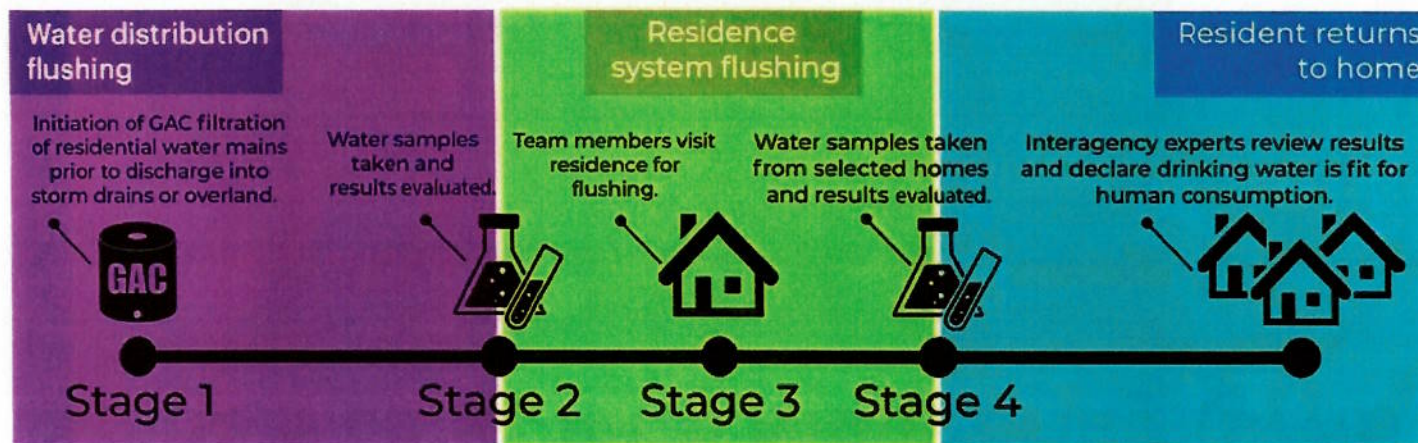
EPA and DOH will discuss the 2-year Drinking Water Long-Term Monitoring (LTM) program. The drinking water monitoring of Joint Base Pearl Harbor - Hickam water system is intended to continuously ensure the drinking water meets all State and Federal drinking water standards and is free of JP-5. DOH will discuss the purpose of DW LTM and how the State tapwater action level for TPH, a complex mix of compounds that lacks a Federal drinking water standard, was developed. EPA will share information on federal standards and their technical assistance role.

Register HERE for the Virtual Event

The U.S. Environmental Protection Agency and the Hawaii Department of Health are hosting a Red Hill In Focus Webinar Series to present information to the public on what agencies are doing to address impacts to human health and the environment from Red Hill Bulk Fuel Storage Facility fuel releases. For webinar series information, visit www.epa.gov/red-hill/red-hill-webinar-series.



Drinking Water Distribution System Recovery Plan: Stages 1-4



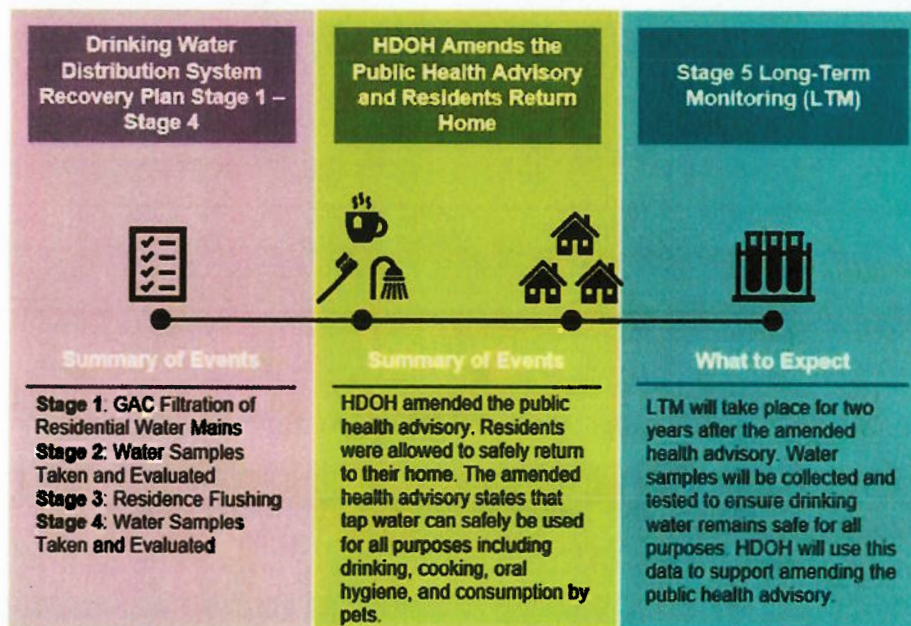
A Remedial Action Report was prepared for each zone, at the conclusion of Stage 4, documenting the flushing and analytical testing conducted in the distribution system and at buildings and homes. This document included lines of investigation required by the DOH to determine if the advisory for a zone should be amended.



https://www.cpf.navy.mil/Portals/52/Downloads/IBPHH-Water-Updates/Resident_Resources_Guide_V3.pdf



Stage 5 Long Term Monitoring (LTM)



Long Term Monitoring Plan (LTMP)



Approved by Navy, Army, HDOH and EPA
(acknowledge)

Document fully executed on July 19, 2022

LTMP posted at
<https://health.hawaii.gov/about/files/2022/08/JBPHH-Drinking-Water-LTM-Plan-FINAL-20220823.pdf>

Drinking Water Long-Term Monitoring Plan

Joint Base Pearl Harbor-Hickam Public Water System #HI0000360
and Aliamanu Military Reservation PWS #HI0000337
O'ahu, Hawai'i

June 2022

Approved by:		Acknowledged by:	
<i>Kathleen S. Ho</i>	Jan 16, 2022	<i>John A. ...</i>	June 29, 2022
<small>Kathleen S. Ho Deputy Director for Environmental Health State of Hawaii, Department of Health</small>	<small>Date</small>	<small>John A. ... Manager, Drinking Water Program U.S. Environmental Protection Agency, Region 9</small>	<small>Date</small>

Approved by:		Approved by:	
<i>ENG.SHERRI.R.12</i>		<i>SUZUKI.RHONDA</i>	
<small>20438936</small>		<small>L.S.1275026912</small>	
<small>Sherril R. Eng, N45 Environmental Director, Navy Region Hawaii By Director of the Commander PWS #102000160</small>	<small>Date</small>	<small>Rhonda L. Suzuki, P.E. Deputy Director, Directorate of Public Works U.S. Army Garrison Hawaii PWS #10000137</small>	<small>Date</small>

This Drinking Water Long-Term Monitoring (DW LTM) Plan was prepared by the State of Hawaii Department of Health, the United States Navy (USN) for the Joint Base Pearl Harbor-Hickam (JBPHH) Public Water System (PWS) #HI0000360 and the United States Army (USA) Aliamanu Military Reservation (AMR) PWS #HI0000337.



EPA-DOH Webinar Cont.

Drinking Water Long-Term Monitoring

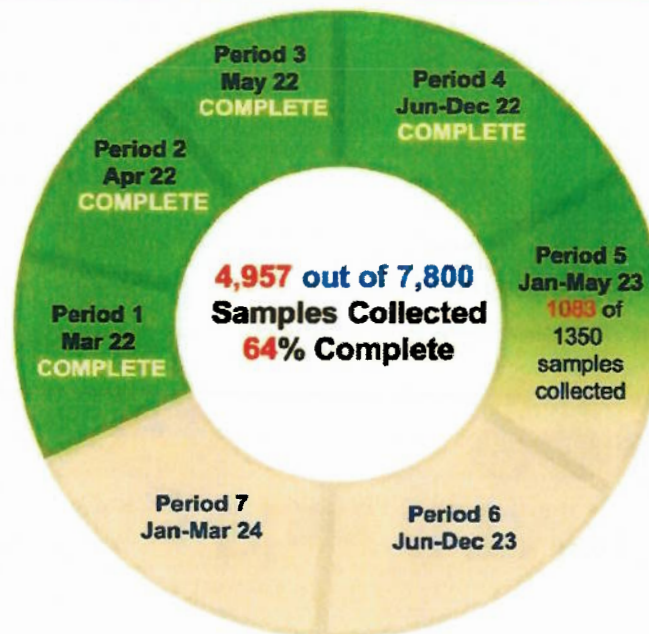


Drinking Water Distribution Sampling:

- 24-month sampling continues until Mar 2024
- Zero detections of JP5
- 18 Exceedances:
 - 18 closed out:
 - 16 lead, 1 mercury, 1 TPH (non-JP5)



Period 5 Sampling – dental office



Rapid Response Team
804-920-3616





JBPHH Safe Waters Website How do I find my results?



Search with Interactive Map

OR

Search Lab Report

Step 1



Visit www.jbphh-safewaters.org.
Click "Drinking Water System"

Step 2



Click "View Interactive Results Map"

Step 3



Use drop-down bars on the left of the screen to search by address, analyte (chemical) name, screening, and dates

Step 1

Visit www.jbphh-safewaters.org

Step 2

Click "Drinking Water System"

Step 3

Click "View System Map"

Step 4

Select your zone

Step 5

For each Period, click on "Sampling Results for Zone"

Step 6

Hit **ctrl+F** and enter your address

www.jbphh-safewaters.org





Joint Base Pearl Harbor-Hickam (JBPHH) – Drinking Water Dashboard

Locations Sampled	Total Samples	Analytes Tested	Detected Above Screening Level
3482	4861	263.0K	21

Location Sampled by Zone

Zone	Locations
LTM D2 Zone Residential DW Sampling Month 4 through 9	197
LTM F2 Zone Residential DW Sampling Month 4 through 9	169
LTM A3 Zone Residential DW Sampling Month 4 through 9	160
LTM D3 Zone Residential DW Sampling Month 4 through 9	122
LTM D2 Zone Residential DW Sampling Month 4 through 9	110
Total	3482



Analytes Exceeding Screening Level

Analyte Name	Screening Level	Min Exceedence	Max Exceedence	Count of Exceedences
Lead	15	15.30	63.40	19
Mercury	2	3.90	3.90	1
Total Organic Carbon	2	130.00	130.00	1

Zone
All

Find Address
All

Analyte Name
All

Screening
All

3/11/2022 3/28/2023

[Clear Filters](#) [More Info](#)

All Analytes Tested

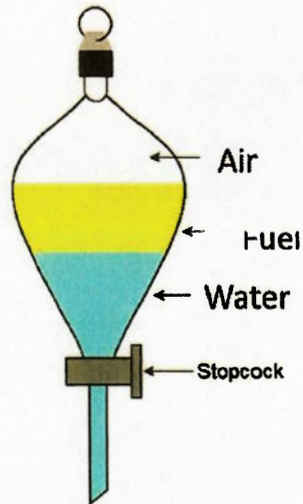
Location	Address	Sampling Date	Client Sample ID	Analyte Name	Screening Level	Reported Result	Qualifier	Units	Screening
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-3-N	1,1,1-Trichloroethane	200	0.50	U	UG/L	Not Detected
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-N	1,1,1-Trichloroethane	200	0.50	U	UG/L	Not Detected
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-3-N	1,1,2-Trichloroethane	5	0.50	U	UG/L	Not Detected
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-N	1,1,2-Trichloroethane	5	0.50	U	UG/L	Not Detected
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-3-N	1,1-Dichloroethene	7	0.50	U	UG/L	Not Detected
A1 ALOH1601	1601 Aloha Avenue	5/9/2022	A1-TW-0001562-22114-N	1,1-Dichloroethene	7	0.50	U	UG/L	Not Detected
Total									

00%



HIDOH Fuel Studies: Dissolved Mixture

- Layer of fresh fuel placed on water;
- Allowed to equilibrate for 20 days;
- Water tested for TPH carbon range makeup of dissolved-phase hydrocarbons (earlier experiments didn't work);
- Weighted toxicity factors calculated for mixture;
- Can be used to develop toxicity-based tapwater action levels;
- *Anticipated May-June 2023.*



UPCOMING EVENTS



Meredith Berger, ASN
Energy, Installations, and Environment
Chief Sustainability Officer

- Meeting with Assistant Secretary of Navy (ASN), Meredith Berger –April 25, 2023
- Subject Matter Expert Meeting –May, 2023
- Fuel Tank Advisory Committee Meeting (FTAC)
 - Monday, June 5, 2023, Open House at Moanalua HS Cafeteria, time TBD.
 - Tuesday, June 6, 2023, FTAC Meeting at Moanalua HS
- Meeting with Navy Admirals –June 23, 2023





Mahalo!

BOARD OF WATER SUPPLY

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

April 2023 Red Hill Updates

April 24, 2023



PFAS (PER- AND
POLYFLUOROALKYL
SUBSTANCES) DETECTED
AT VARIOUS BWS WELLS

April 2023

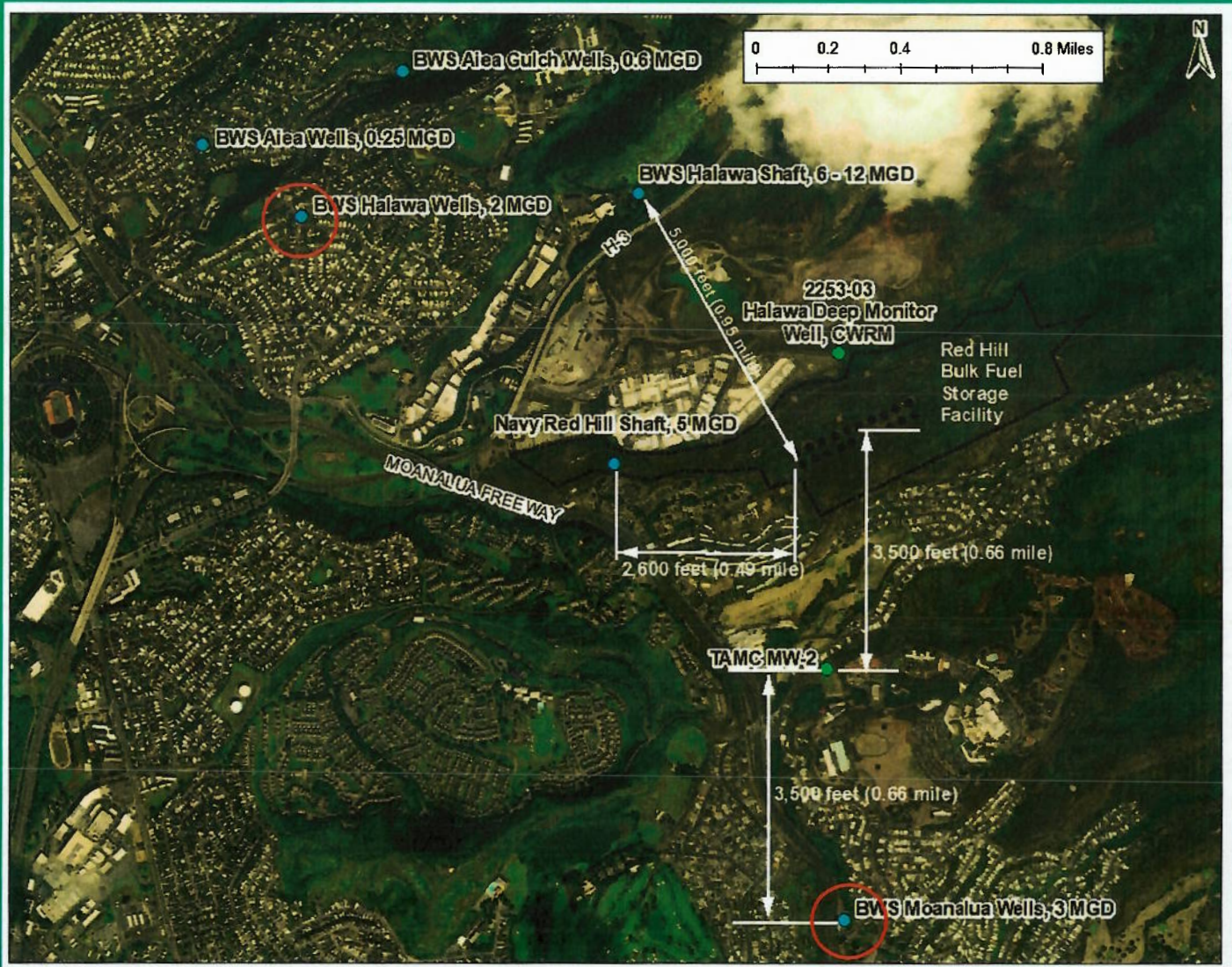
TODAY'S BRIEFING

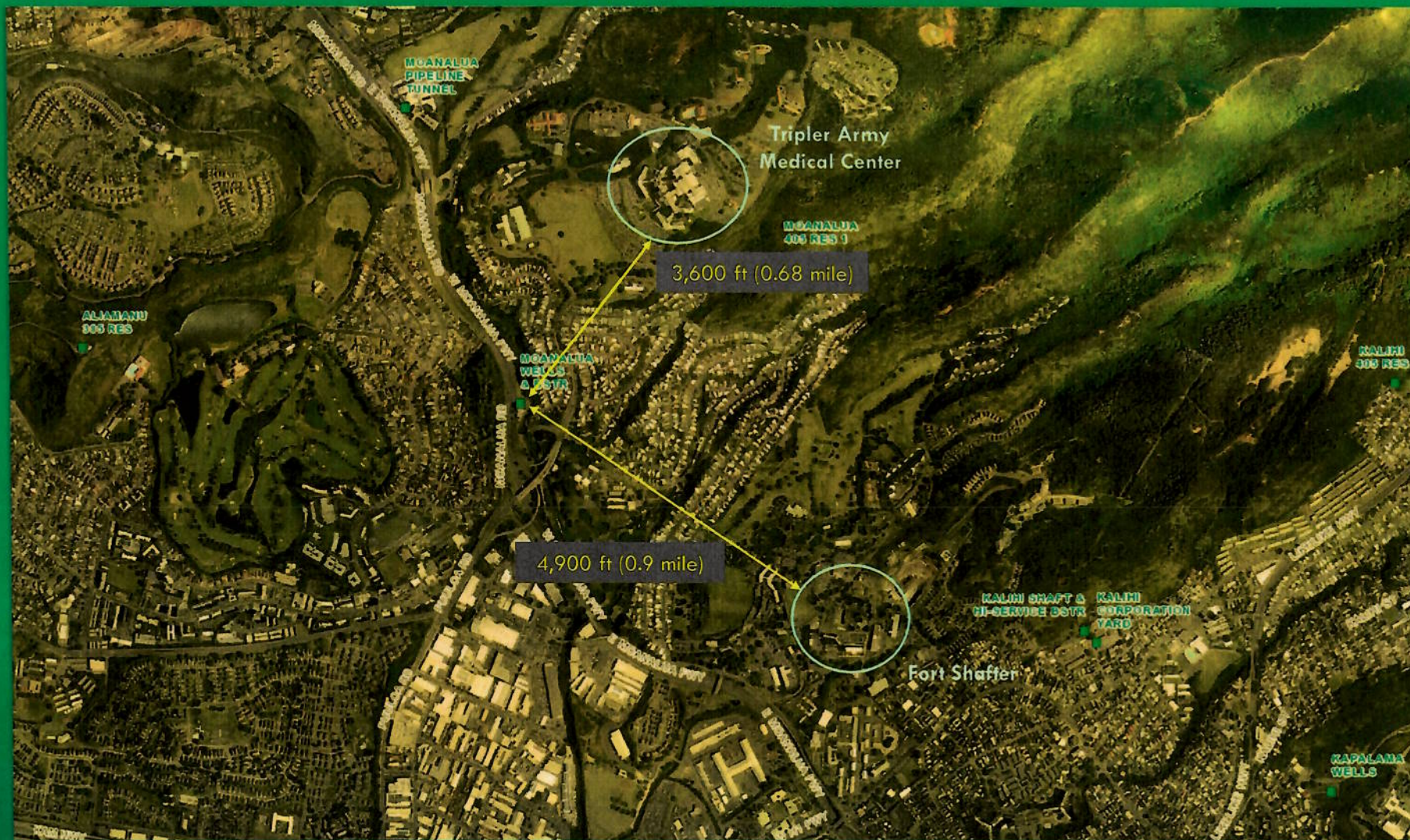
- Per- and polyfluoroalkyl substances (PFAS) detected at BWS Halawa, Moanalua and Waipio Heights Wells
- DOD PFAS investigations in proximity to these wells
- EPA proposed PFAS standards
 - What are they
 - What do they mean?
- Next steps



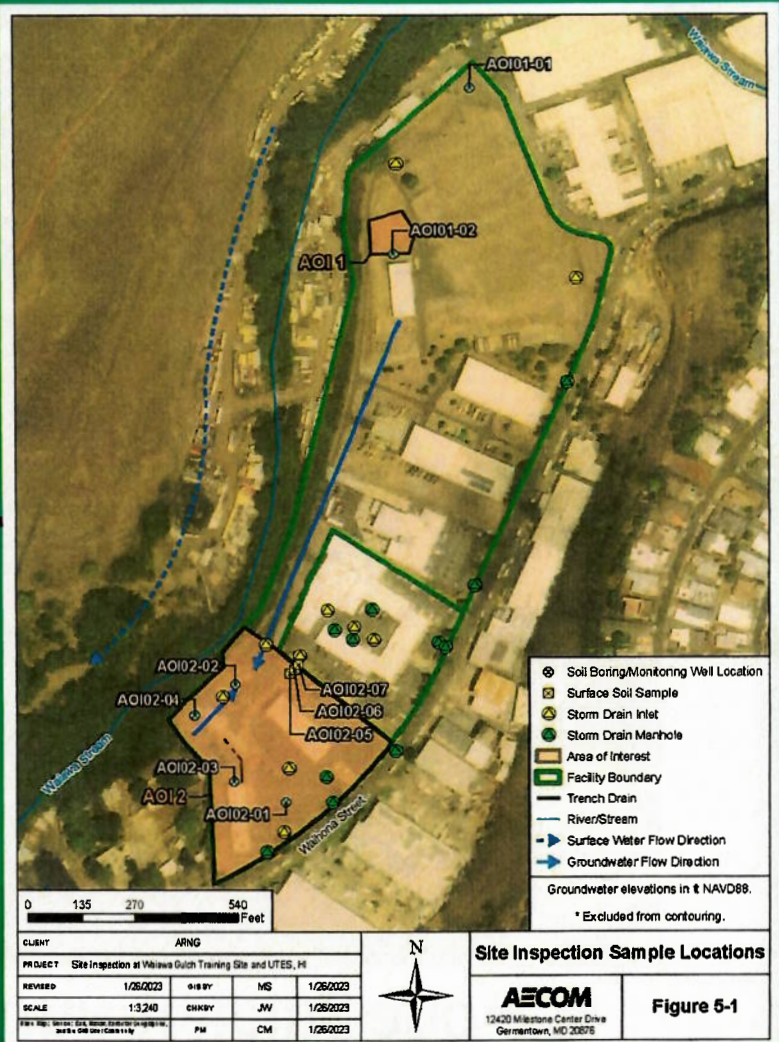
PFAS DETECTIONS AT VARIOUS BWS WELLS

Location	Analyte	Detected levels (ppt)	EPA proposed MCL (ppt)	EPA lifetime health advisory (ppt)	DOH EAL (ppt)
Halawa Wells	Perfluorohexanesulfonic acid (PFHxS)	2.0 - 2.7	HI 1.0	None	19
	Perfluorohexanoic acid (PFHxA)	ND - 2.2	None	None	1000
	Perfluorooctanesulfonic acid (PFOS)	ND - 2.4	4.0	0.02	40
	Perfluorooctanoic acid (PFOA)	ND - 2.4	4.0	0.004	40
	Perfluoropentanoic acid (PFPeA)	2.0 - 2.3	None	None	800
Moanalua Wells	Perfluorooctanesulfonic acid (PFOS)	ND - 2.2	4.0	0.02	40
	Perfluorobutanoic acid (PFBA)	2.0 - 2.8	None	None	7600
Waipio Hts Wells Pump 1	Perfluorohexanoic acid (PFHxA)	ND - 2.0	None	None	1000
	Perfluorooctanesulfonic acid (PFOS)	ND - 2.2	4.0	0.02	40
	Perfluoropentanoic acid (PFPeA)	2.5 - 3.0	None	None	800
Waipio Hts Wells Pump 2	Perfluorooctanesulfonic acid (PFOS)	2.3 - 2.8	4.0	0.02	40









HIARNG Waiawa UTES facility located north of Pearl Harbor that comprises approximately 20 acres, 0.75 miles northeast of the H1-H2 merge. Waiawa UTES is a HIARNG training and maintenance facility.

Waiawa Gulch Training Site (TS) and Unit Training and Equipment Site (UTES)

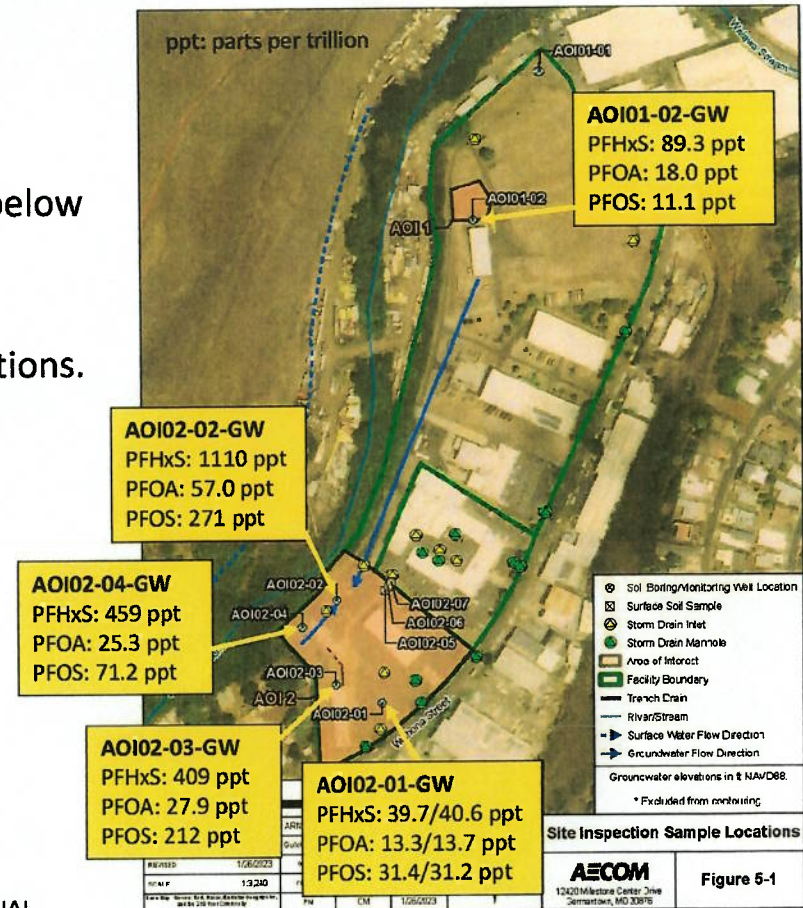
- Soil:
 - Detections of PFBS, PFHxS, PFNA, PFOA, and PFOS below the screening levels.
- Groundwater:
 - Screening level exceedances at 5 of 6 sampling locations.

Table 6-1: Screening Levels (Soil and Groundwater)

Analyte ^b	Residential (Soil) (µg/kg) ^a 0-2 feet bgs	Industrial/Commercial Composite Worker (Soil) (µg/kg) ^a 2-15 feet bgs	Tap Water (Groundwater) (ng/L) ^a
PFOA	19	250	6
PFOS	13	160	4
PFBS	1,900	25,000	601
PFHxS	130	1,600	39
PFNA	19	250	6

Notes:

- bgs = below ground surface; µg/kg = micrograms per kilogram; ng/L = nanograms per liter
- a.) Assistant Secretary of Defense, 2022. Risk Based Screening Levels in Groundwater and Soil using United States Environmental Protection Agency's (USEPA's) Regional Screening Level Calculator. Hazard Quotient (HQ) = 0.1. 6 July 2022.
- b.) Screening values for HFPO-DA were established after SI planning and execution and thus not included as an analyte. Future CERCLA phases will include HFPO-DA if warranted.



DRAFT FINAL

PROGRESS AT THE 700 INSTALLATIONS BEING ASSESSED FOR PFAS USE OR POTENTIAL RELEASE

DOD COMPONENT	STATE/TERRITORY	INSTALLATION NAME	INSTALLATION TYPE	CLEANUP STATUS AS OF MARCH 31, 2022
Air Force	Georgia	Savannah International Airport	National Guard	PA/SI Completed - RI Planned
Air Force	Hawaii	Bellows Air Force Station	Active	PA/SI Completed - No Further Action
Army	Hawaii	Fort Ruger	National Guard	PA/SI Completed - No Further Action
Army	Hawaii	Hilo AASF #2	National Guard	PA/SI Completed - No Further Action
Army	Hawaii	Kalaoloa Facility (Former Barbers Point-NAS)	National Guard	PA/SI Underway
Army	Hawaii	USAG HI - Dillingham Military Reservation	Active	PA/SI Completed - No Further Action
Army	Hawaii	USAG HI - Fort Shafter/Tripler Army Medical Center	Active	PA/SI Underway
Army	Hawaii	USAG HI - Hawaii - Wheeler Army Airfield	Active	PA/SI Underway
Army	Hawaii	USAG HI - Helemano RAD REC Station	Active	PA/SI Underway
Army	Hawaii	USAG HI - Kahuku Training Area	Active	PA/SI Completed - No Further Action
Army	Hawaii	USAG HI - Kilauea Military Reservation	Active	PA/SI Underway
Army	Hawaii	USAG HI - Kipapa Ammunition Storage Site	Active	PA/SI Completed - No Further Action
Army	Hawaii	USAG HI - Kunia Field Station	Active	PA/SI Completed - No Further Action
Army	Hawaii	USAG HI - Makua Military Reservation	Active	PA/SI Completed - No Further Action
Army	Hawaii	USAG HI - Oahu - Schofield Barracks	Active	PA/SI Underway
Army	Hawaii	USAG HI - Pohakuloa Training Center	Active	PA/SI Underway
Army	Hawaii	USAG HI - Waikakalaua Ammunition Storage Tunnels	Active	PA/SI Completed - No Further Action
Army	Hawaii	Walawa Unit Training Equipment Site (UTES)	National Guard	PA/SI Underway
Navy	Hawaii	BARBERS POINT HI NAS	Active	PA/SI Underway
Navy	Hawaii	Barbers Point NAS	BRAC	PA/SI Underway
Navy	Hawaii	BARKING SANDS HI PMRF	Active	PA/SI Underway
Navy	Hawaii	JBPHH PEARL HARBOR HI	Active	PA/SI Underway
Navy	Hawaii	KANEONE BAY HI MCB	Active	PA/SI Underway
Navy	Hawaii	NAVFAC HAWAII P HARBOR	Active	PA/SI and RI Underway
Navy	Hawaii	NMC EAD DET PEARL HARBOR	Active	PA/SI Underway
Navy	Hawaii	PEARL HARBOR HI FISC	Active	PA/SI and RI Underway
Navy	Hawaii	PEARL HARBOR HI NSY	Active	PA/SI Underway





PFAS INVESTIGATIONS AT MILITARY FACILITIES ON OAHU

Legend

- Pass
- Air Force
- Army
- Navy
- Red Hill

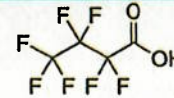


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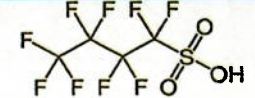


WHAT ARE PFAS?

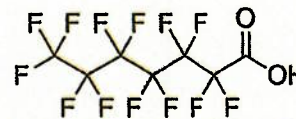
- Per- and polyfluoroalkyl substances (PFAS) are a family of chemicals used since the 1940s to make consumer and industrial products resistant to water, heat, and stains.
- PFAS can leach into groundwater and contaminate drinking water.
- Persistent in the environment and do not easily break down.
- Potential adverse health impacts including liver damage, decreased fertility, hormone suppression and cancer.
- Many different kinds of PFAS chemicals



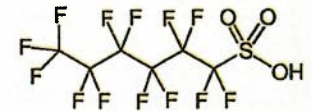
Perfluorobutanoic acid (PFBA)



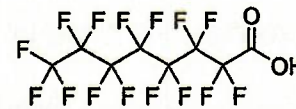
Perfluorobutane sulfonic acid (PFBS)



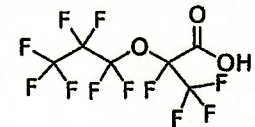
Perfluoroheptanoic acid (PFHpA)



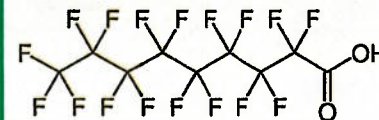
Perfluorohexane sulfonic acid (PFHxS)



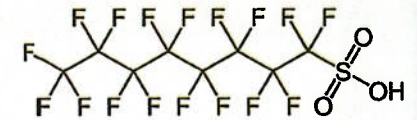
Perfluorooctanoic acid (PFOA)



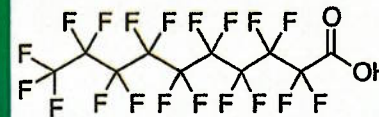
Hexafluoropropylene oxide dimer acid (HFPO-DA or GenX)



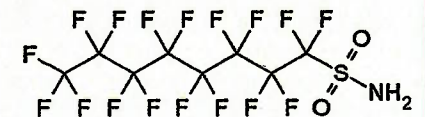
Perfluorononanoic acid (PFNA)



Perfluorooctane sulfonic acid (PFOS)



Perfluorodecanoic acid (PFDA)



Perfluorooctanesulfonamide (PFOSA)

EPA PROPOSED PFAS STANDARDS

Compound	Proposed MCLG	Proposed MCL (ng/L)	DOH EAL (ng/L)
Perfluorooctanoic acid (PFOA)	Zero	4	40
Perfluorooctane sulfonic acid (PFOS)	Zero	4	40
Perfluorononanoic acid (PFNA)	Hazard index 1.0	Hazard index 1.0	4.4
Perfluorohexane sulfonic acid (PFHxS)			19
Perfluorobutane sulfonic acid (PFBS)			600
Hexafluoropropylene oxide dimer acid (HFPO-DA) [GenX Chemicals]			160



EPA PROPOSED PFAS STANDARDS – CONT.

- Maximum contaminant limit (MCL)
 - Highest level of a contaminant that is allowed in drinking water.
 - MCLs are enforceable standards.
 - MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration and still be protective of public health.
- Maximum contaminant level goal (MCLG)
 - Level of a contaminant in drinking water below which there is no known or expected risk to health.
 - MCLGs to allow for a margin of safety and are non-enforceable public health goals.



EPA PROPOSED PFAS STANDARDS – CONT.

- EPA has proposed a hazard index of 1.0 for four PFAS chemicals to protect public health from mixtures of these chemicals that may occur in drinking water.
- Hazard index represents the level at which no known or anticipated adverse effects on health is expected to occur and allows for an adequate margin of safety



NEXT STEPS

- EPA proposed MCL for PFOA and PFOS
 - 60 day comment period that ends May 30, 2023
 - EPA review comments then finalizes MCL
- EPA UCMR5 regulations requires all water utilities to test for PFAS starting in January 2023
- BWS has been testing our water sources since 2020 and continue to monitor



QUESTIONS / DISCUSSION



ITEM FOR INFORMATION NO. 2

"April 24, 2023

REVISIONS
TO THE
FISCAL YEAR
2023 OPERATING
AND CAPITAL
IMPROVEMENT
PROGRAM
BUDGETS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Revisions to the Fiscal Year 2023 Operating and Capital Improvement Program Budgets

Raelynn Nakabayashi, Executive Support Office, will present the report regarding Revisions to the Fiscal Year 2023 Operating and Capital Improvement Program Budgets which anticipates reallocating appropriated funding from the Capital Improvement Program Budget to the Operating Budget to address electric power costs that are anticipated to exceed budgeted amounts.

Respectfully Submitted,

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

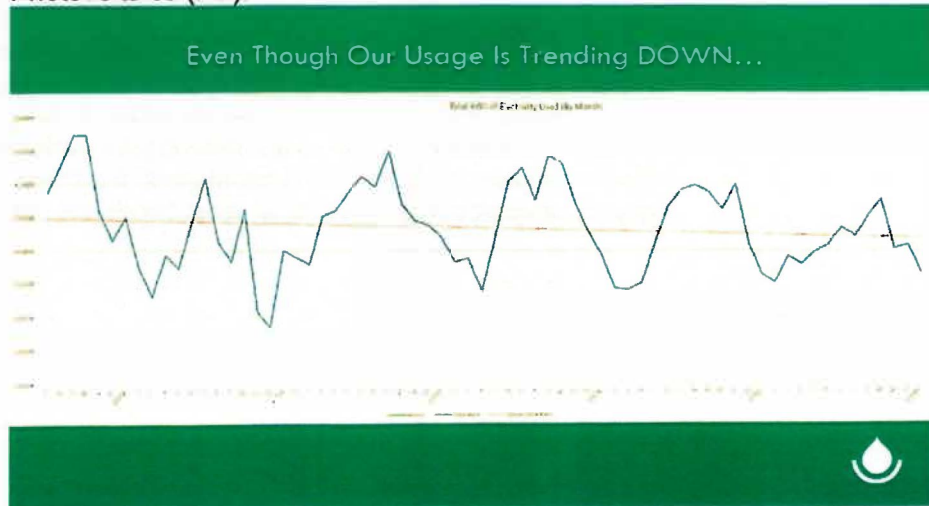
Attachment"

The foregoing was for information only.

DISCUSSION:

Raelynn Nakabayashi, Executive Assistant I, Executive Support Office, gave the report.

Board Member Anthony referred to slide number 7, illustrating the downward trend. He asked if the downward trend is due to the use of Photovoltaics (PV).



Ms. Nakabayashi confirmed that the PV helps with the downward trend of energy usage.

Board Member Anthony inquired if the BWS has programmed any funding to help offset some of the cost or invest in additional energy-saving products.

Ms. Nakabayashi responded that the BWS is looking into various energy savings grants and federal funding that would support infrastructure projects.

Board Member Anthony commented that he is hopeful that House Bill (HB) 1511 will pass to help assist with the cost of drilling exploratory and monitoring wells.

Ms. Nakabayashi stated that the BWS is staying positive. Any grants and funding to help alleviate the burden on the operating funds are welcomed.

Vice Chair Sproat expressed concern about the reduced appropriations for Capital Improvement Program (CIP) item number two, Exploratory Wells for Red Hill Contamination Response. She commented that the BWS's water sources have become limited, and more detections of PFAS and other contaminations are rising. She inquired if the BWS is granted federal funding for more monitoring and exploratory wells and what the timeline is for the Capital Projects Division to be able to add new water sources within the next fiscal year.

Deputy Manager Kawata shared that the BWS will install the Aiea 497 exploratory well this fiscal year. The design of the Newtown 550 will also be completed by the end of this fiscal year. If the BWS is granted funding from the legislature, this will support the construction of the Newtown 550 exploratory well and seven additional monitoring wells. He shared that the BWS continues to look for other locations for more monitoring wells. However, we are contending with many site constraints, such as existing infrastructure and development in highly residential areas, which may lead to noise concerns, encroachment, and potentially eliminating existing recreational uses. The objective is not to burden the community; therefore, the BWS is looking further inland. However, going further inland means higher elevation, deeper wells, and higher cost. Currently, the BWS is looking into two sites that require additional land acquisitions, which are planned for the next fiscal year, but there are no plans to drill any more exploratory wells for at least two fiscal years.

 **Honolulu Board of Water Supply**

TO: ERNEST Y.W. LAU, P.E.
MANAGER & CHIEF ENGINEER

DATE: April 24, 2023

FROM: RAELYNN NAKABAYASHI
EXECUTIVE SUPPORT OFFICE

SUBJECT: Approval of the Revision of the Fiscal Year 2022-2023 Capital Improvement – Program Budget and Operating Budget – Amendment No. 2

We request your approval to reduce funding in the following operating funded projects listed in the Fiscal Year 2023 (FY 2023) Capital Improvement Program (CIP) Budget to increase the FY 2023 Operating Budget line for Electric Power – Water Distribution Facilities (Object Code 4610). The recommended reprogramming of the project funds will enable the department to fund the projected Operating Budget shortfall resulting from unexpected increases in the cost of electricity in FY 2023.

Pursuant to the adoption of Resolution 941, 2022 (Operating and Capital Improvement Program Budget for FY2023), the Board has provided the following:

“Be it further resolved that the said Operating Fund appropriation may be increased to the extent that any State or Federal environmental law, regulation, and/or electric power cost, causes the Board of Water Supply to exceed the cost thresholds as specified in the Schedule of Rates and Charges for the Furnishing of Water and Water Service; and”

Pursuant to the adoption of Resolution 950, 2022 (Amended Capital Improvement Program Budget for FY2023), the Board has provided the following:

“Be it further resolved that the Manager and Chief Engineer, at his discretion, shall have the authority to adjust the method of funding the Capital Improvement Program Budget and that the Manager and Chief Engineer may increase or decrease the amount appropriated out of the Operating Fund, Improvement Fund, Special Expendable Fund, and Extramural Fund in the Capital Improvement Program Budget, provided that the total consolidated appropriation of the Operating Budget and Capital Improvement Program Budget remains the same; and”

The amendment outlined below is a direct result of an increase in electric power cost and will allow the Board of Water Supply to ensure sufficient funding is available in the Operating Budget, while reducing the funding available in the Capital Improvement Program Budget, therefore keeping the total consolidated appropriation of the Operating Budget and Capital Improvement Program Budget the same.

As the Board, through Resolutions 941, 2022 and 950, 2022 has provided the mechanism to adjust funding, if the total consolidated appropriation remains the same, we recommend Manager and Chief Engineer approve the following:

1. Reduce appropriations for the following CIP projects:

Item No. 2 EXPLORATORY WELLS FOR RED HILL CONTAMINATION RESPONSE

Description: Drill, case, install test pump and sample up to three (3) exploratory wells as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	7,567,250	3,296,252

Reason: The proposed amount reflects the total funding required for the construction of one (1) Aiea 497' Exploratory Well. The funding and construction of other exploratory wells will be addressed in FY 2024. The balance of the funds for this project will be reappropriated into the Operating Budget for electric power (Object Code 4610).

Item No. 5 CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS

Description: Provide construction management and training services for selected BWS projects.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	2,000,000	1,270,998

Reason: Construction Management Services are aligned with the timing of construction projects. The full amount of funding will not be required in Fiscal Year 2023. The balance of the funds for this project will be reappropriated into the Operating Budget for electric power (Object Code 4610).

2. Increase appropriations for the following Operating Budget line:

Business Unit: Fixed Charges and Debt Service (5990), Account 4610: Electric Power – Water Distribution Facilities.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND		26,000,000	31,000,000

Reason: The proposed amount reflects additional funding required to cover projected electricity costs, through June 30, 2023. The additional funding requirement is a result of unanticipated increases in the cost of electricity in FY 2023.

The following is a summarization of the FY 2023 Budget Amendment No. 2:

Resolution 941, 2022

FY 2023 CIP Budget (as Adopted)	\$181,109,325
FY 2023 Operating Budget (as Adopted)	<u>\$237,240,444</u>
TOTAL APPROPRIATION:	\$418,349,769

Resolution 950, 2022

FY 2023 – Amendment No. 1	
Projects – Added	+\$33,500,000
Projects – Deferred	(\$30,920,000)
Construction Cost Index Account	+\$387,000
Contract Adjustment Account – Operating	(\$6,500,000)
Contract Adjustment Account – Special EX	+\$6,500,000
CIP APPROPRIATION (As Amended)	\$184,076,325

FY 2023 Operating Budget (as Adopted)	<u>\$237,240,444</u>
TOTAL APPROPRIATION:	\$421,316,769

FY 2023 – Amendment No. 2	
Projects – Modified Appropriations	<u>(\$5,000,000)</u>
CIP SUB-TOTAL	\$179,076,325

Reprogram to Operating Budget	<u>+\$5,000,000</u>
OPERATING BUDGET SUB-TOTAL	\$242,240,444

FY 2023 CIP Budget (as Amended)	\$179,076,325
FY 2023 Operating Budget (as Amended)	<u>\$242,240,444</u>
TOTAL APPROPRIATION	\$421,316,769

Upon approval, the appropriate pages of the current FY 2023 Operating and Capital Improvement Program Budget will be revised.

APPROVED/ DISAPPROVED:

ERNEST Y.W. LAU, P.E. Date

CC: Finance
Capital Projects
ESO-MBO - Original



REVISIONS TO THE FISCAL
YEAR 2023 OPERATING AND
CAPITAL IMPROVEMENT
PROGRAM BUDGETS

April 24, 2023

www.boardofwatersupply.com

FISCAL YEAR 2023 BUDGET AMENDMENT NO. 2

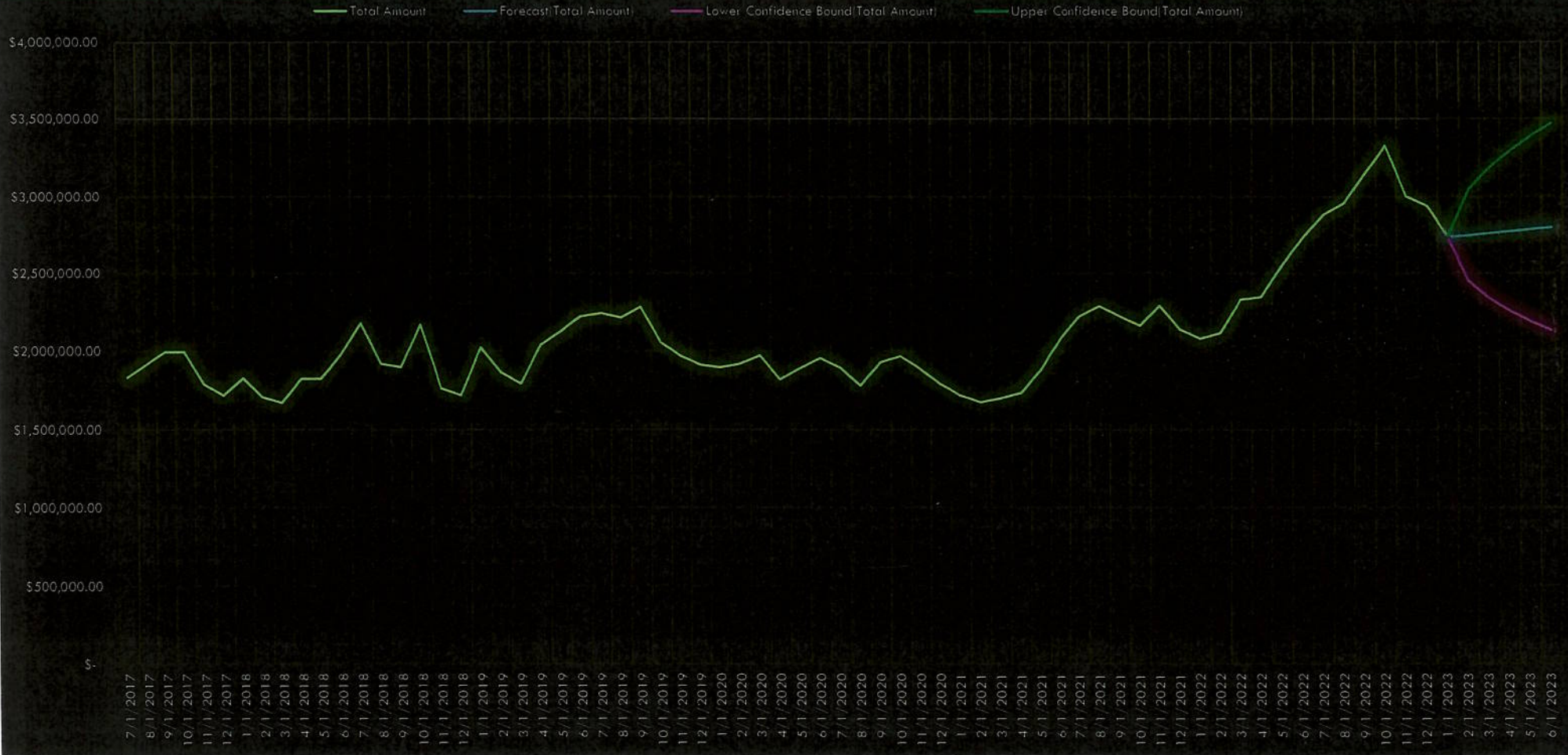
- The BWS budgeted \$26M for Electric Power – Water Distribution Facilities
 - *This was an 18% increase in Budgeted Funds, over Fiscal Year 2022*

Our Actual Expenditures combined with our Forecast through the end of FY23:

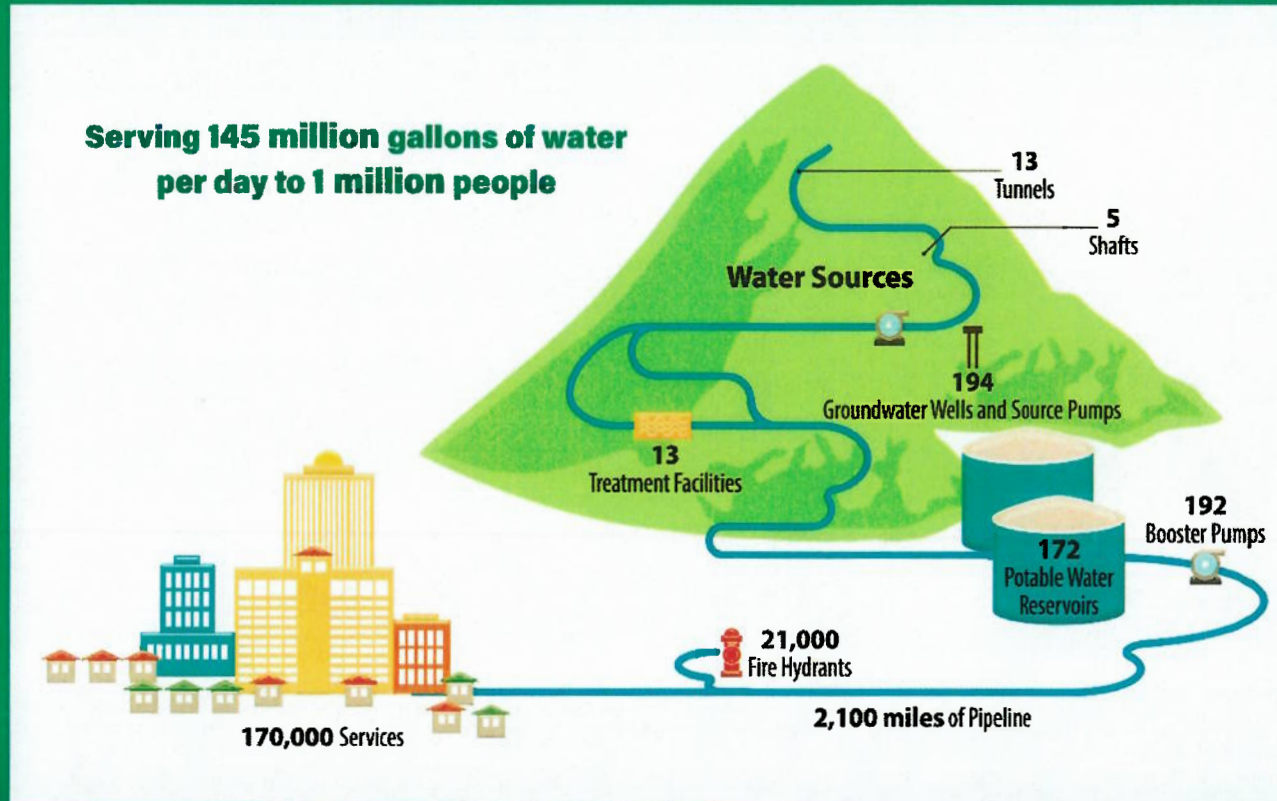
~\$34M on Electric Power – Water Distribution Facilities



Forecast	34,840,328
Lower Bound	32,328,533
Upper Bound	37,352,122



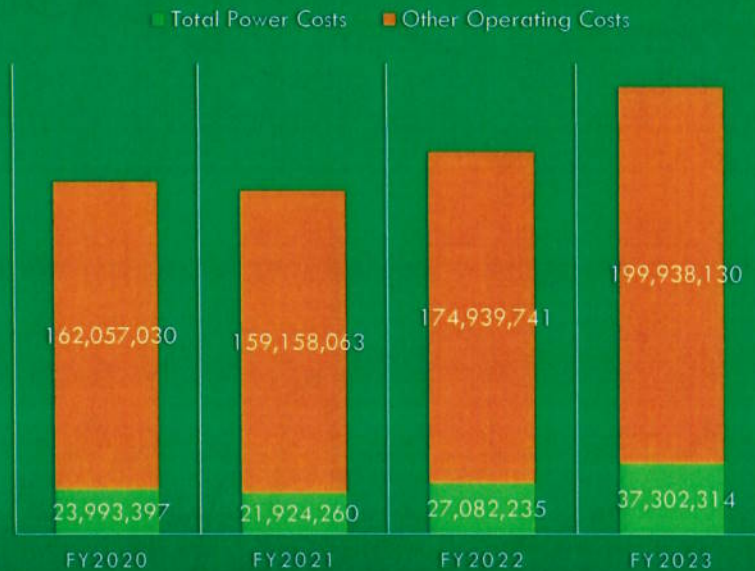
THE BWS OPERATES A LARGE AND COMPLEX WATER SYSTEM



Shafts, Groundwater Wells and Source Pumps, Treatment Facilities, and Booster Pumps from the BWS water system **all use electricity to operate.**

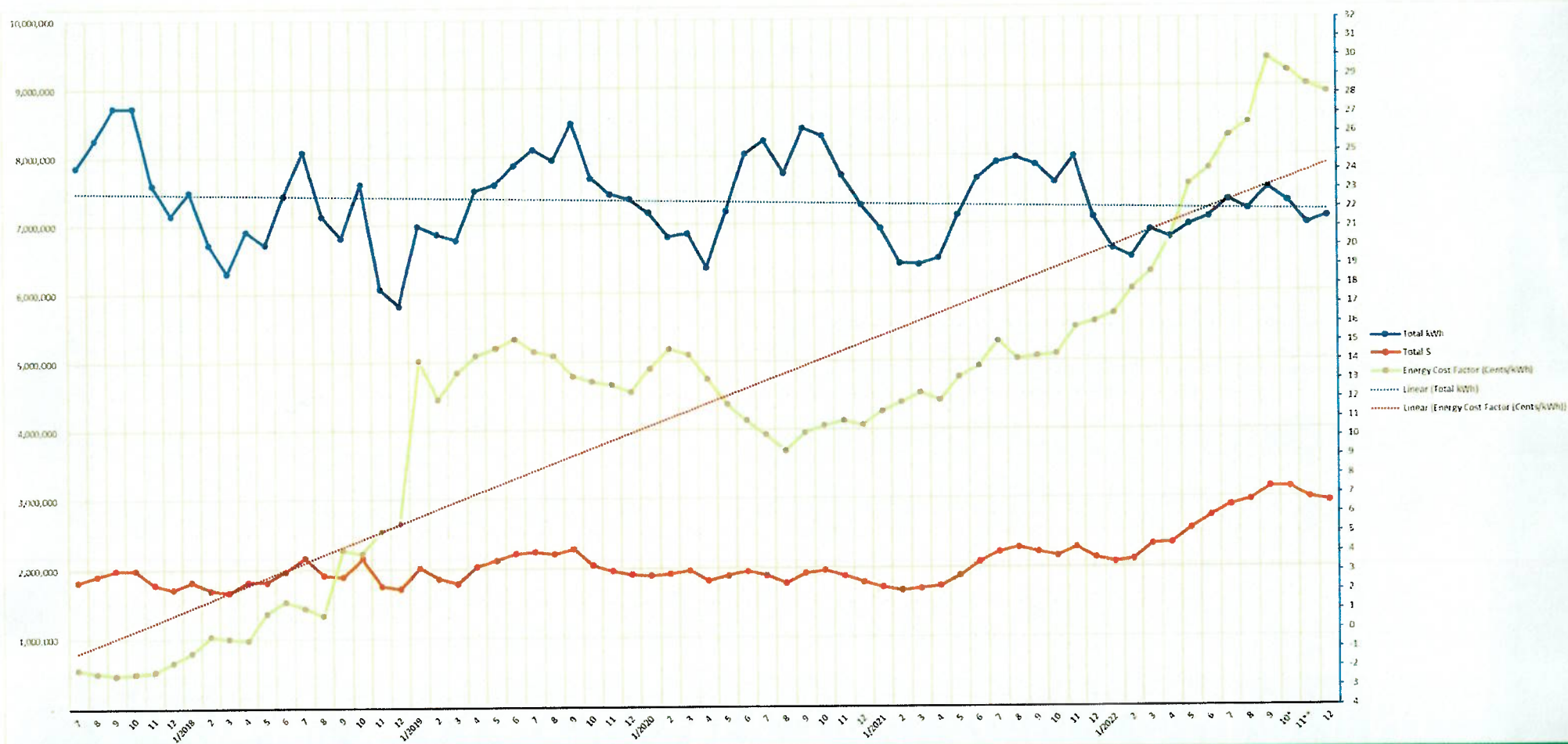


POWER IS A LARGE OPERATING COST COMPONENT



- The percentage of electricity costs, as compared to the total Operating Expense in each year, continues to rise.
 - FY20 – 12.9% of the Budget
 - FY21 – 12.1% of the Budget
 - FY22 – 13.4% of the Budget
 - FY23 – Anticipated 15.7% of the Budget

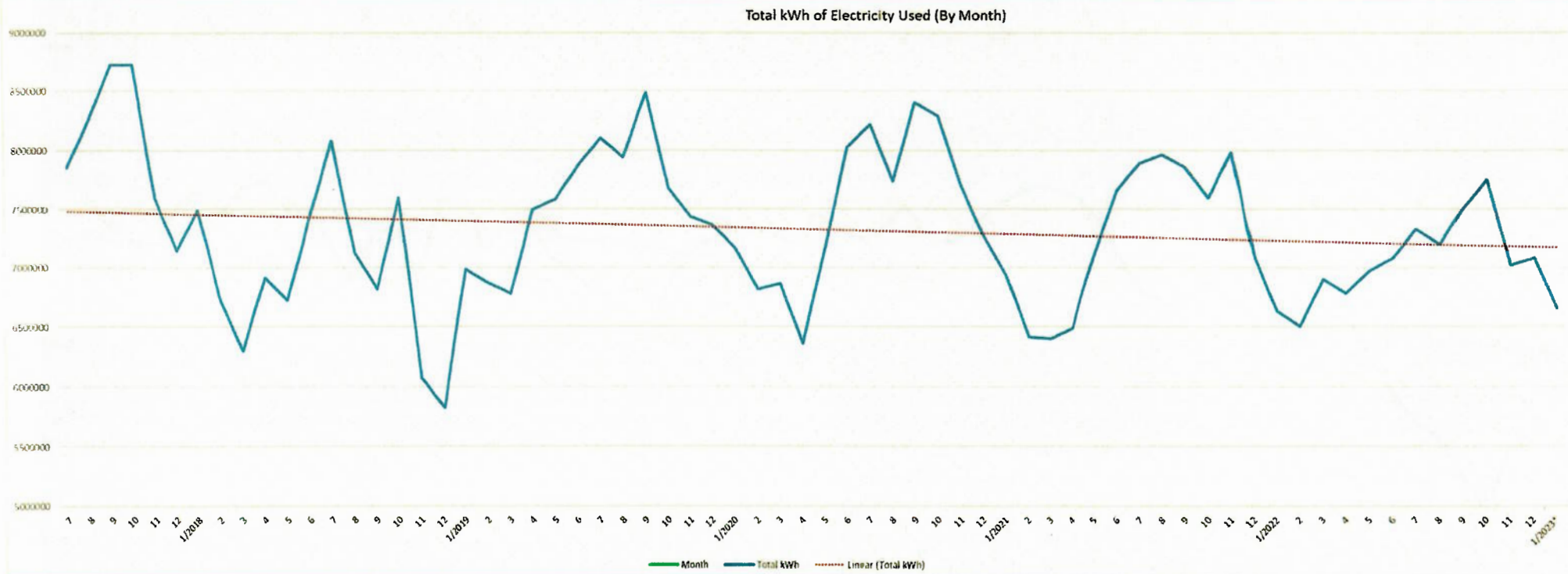




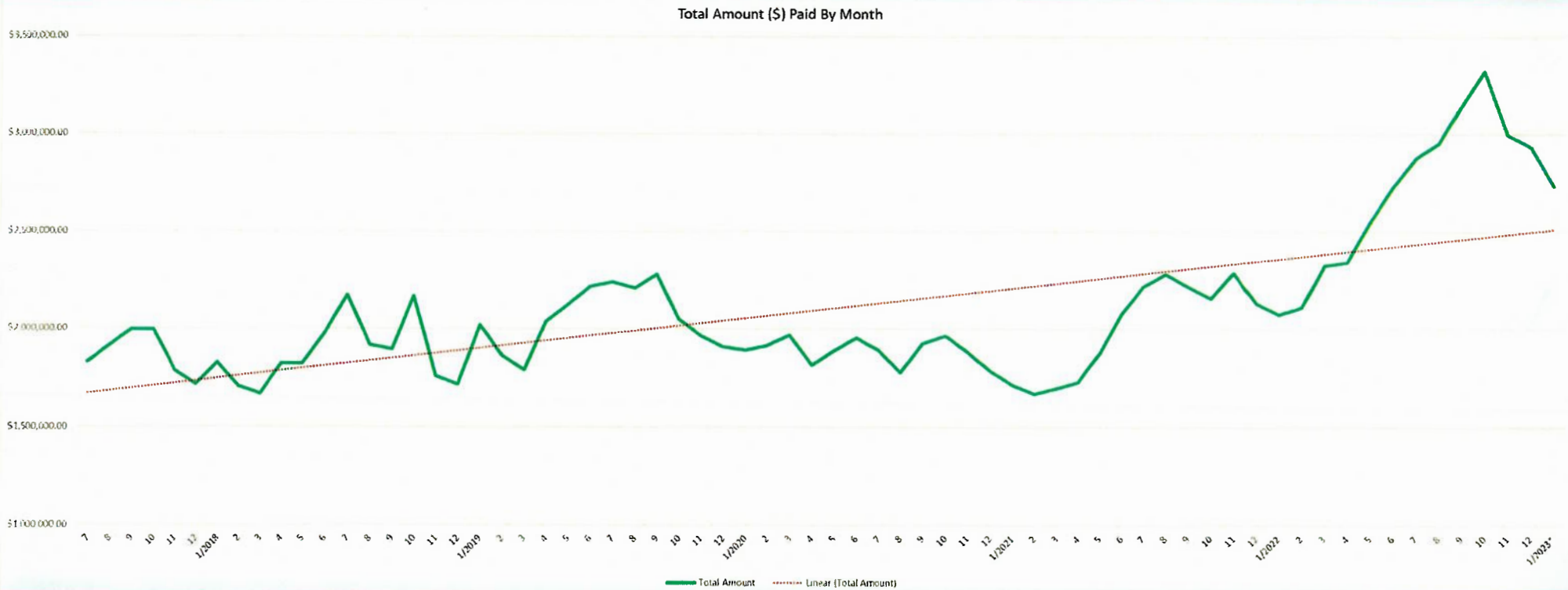
Significant efforts have been made to reduce consumption, via our ESPC, but cost continues to rise exponentially due to HECO Rates



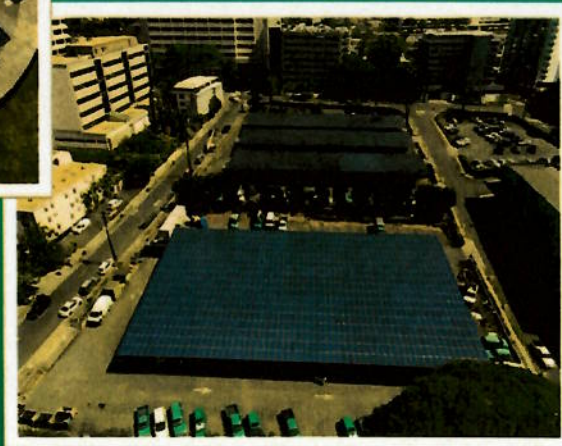
Even Though Our Usage Is Trending DOWN...



...The Amount We Must Pay To HECO Continues To Go UP



ENERGY SAVINGS PERFORMANCE CONTRACT



- The BWS made a significant investment in an ESPC, which began in 2016.
- We have installed a total of 3 MW of PV capacity for our operations across 27 BWS sites.
- The ESPC also includes light fixture upgrades at all BWS buildings, some HVAC replacements, Time of Use and Rider M controls and other energy improvements.

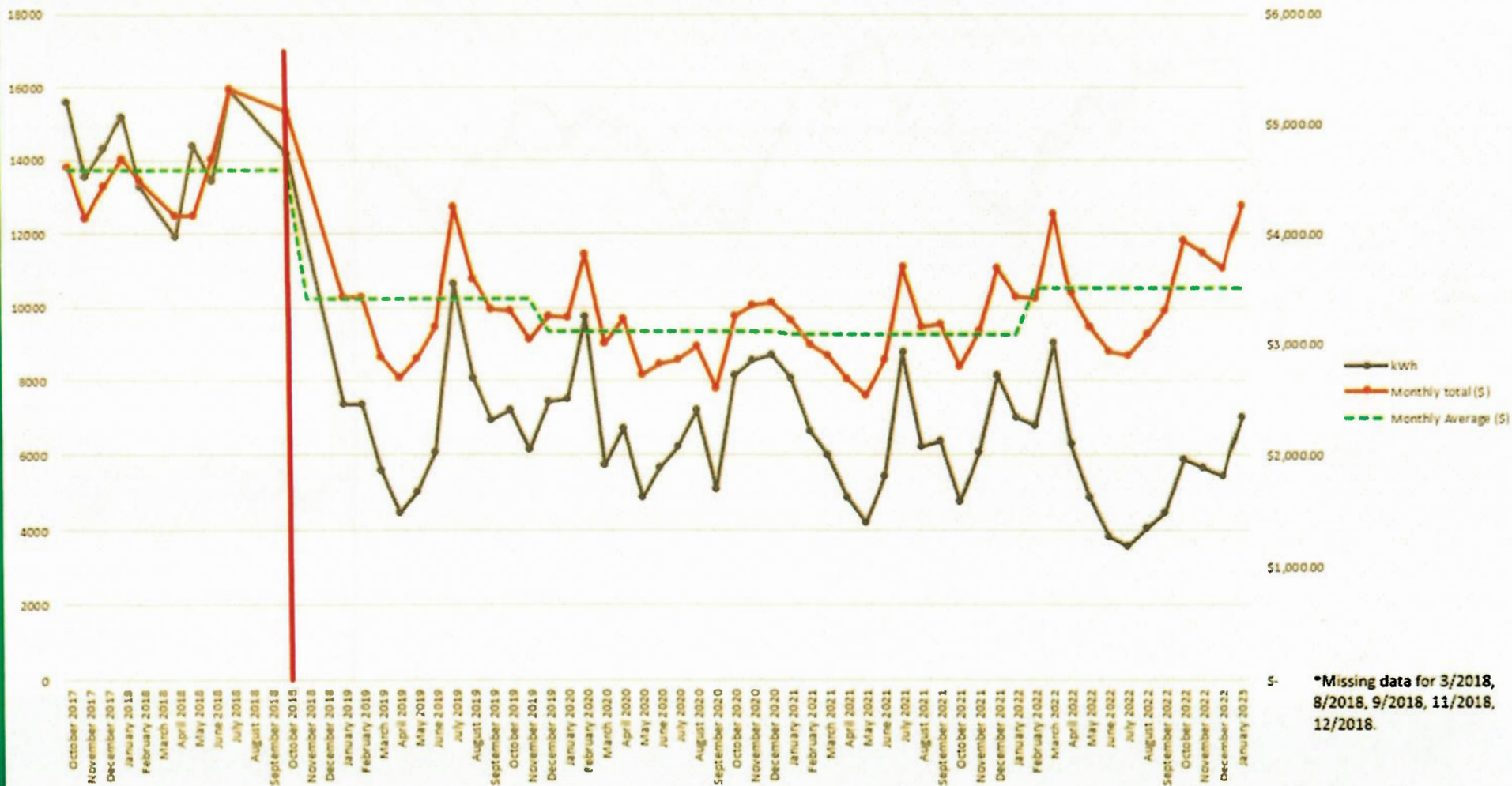


ENERGY SAVINGS PERFORMANCE CONTRACT

- Power consumption reduction (kWh) is apparent at sites with PV installed
- Overall BWS power consumption is trending downward
- Even with the reduction in consumption, the BWS has not seen any decreases in overall cost due to rising rates with HECO.

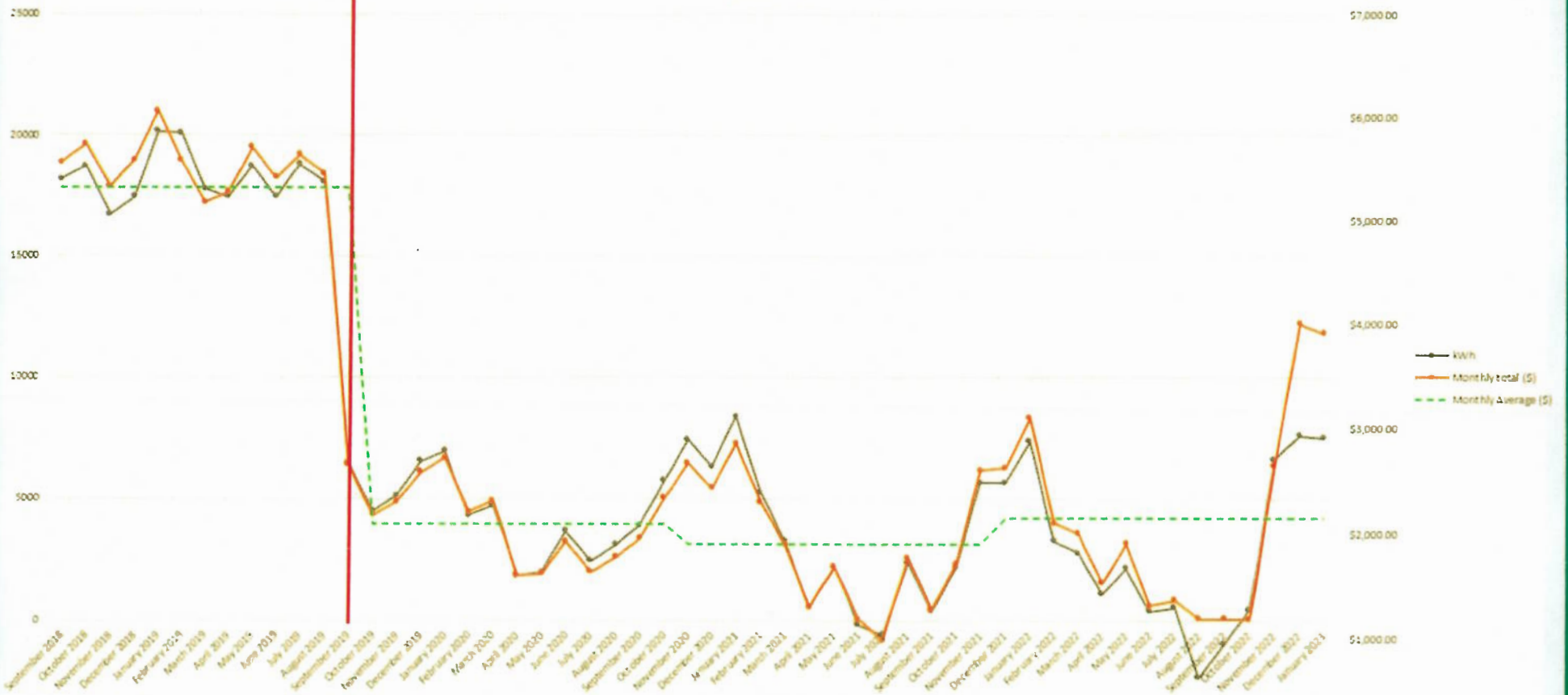


Waiau 550*



*Missing data for 3/2018, 8/2018, 9/2018, 11/2018, 12/2018.

Nuuanu 405



THE BOARD HAS PROVIDED BWS MECHANISMS TO ADJUST FUNDING

...SO LONG AS THE TOTAL CONSOLIDATED APPROPRIATION REMAINS THE SAME



RESOLUTION 941, 2022 (OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET FOR FY2023):

*“Be it further resolved that the said **Operating Fund appropriation** may be **increased** to the extent that any State or Federal environmental law, regulation, and/or **electric power cost**, causes the Board of Water Supply to **exceed the cost thresholds** as specified in the Schedule of Rates and Charges for the Furnishing of Water and Water Service; and”*



RESOLUTION 950, 2022 (AMENDED CAPITAL IMPROVEMENT PROGRAM BUDGET FOR FY2023):

*“Be it further resolved that the Manager and Chief Engineer, at his discretion, shall have the authority to adjust the method of funding the Capital Improvement Program Budget and that the Manager and Chief Engineer may increase or decrease the amount appropriated out of the Operating Fund, Improvement Fund, Special Expendable Fund, and Extramural Fund in the Capital Improvement Program Budget, **provided that the total consolidated appropriation of the Operating Budget and Capital Improvement Program Budget remains the same;** and”*



THE PROPOSED AMENDMENT IS...

- A direct result of an increase in electric power cost exceeding cost thresholds
- Will allow the BWS to ensure sufficient funding is available in the Operating Budget
- While reducing funding in the Capital Improvement Program Budget

**THEREFORE KEEPING THE TOTAL CONSOLIDATED
APPROPRIATION THE SAME**



REDUCE APPROPRIATIONS (CIP)

Item No. 2: EXPLORATORY WELLS FOR RED HILL CONTAMINATION RESPONSE

Description: Drill, case, install test pump and sample up to three (3) exploratory wells as possible replacement sources for the loss of Halawa Shaft due to the Red Hill fuel contamination

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	CONST	7,567,250	3,296,252

Reason: The proposed amount reflects the total funding required for the construction of one (1) Aiea 497' Exploratory Well, which is the only project able to proceed this year. Site challenges with the other two (2) exploratory well projects prevented their award this Fiscal Year. The balance of the funds for this project will be reappropriated into the Operating Budget for electric power (Object Code 4610)



REDUCE APPROPRIATIONS (CIP)

Item No. 5: CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS

Description: Provide construction management and training services for selected BWS projects.

<u>Appropriation</u>		<u>Present</u>	<u>Proposed</u>
OPERATING FUND	P&E	2,000,000	1,270,998

Reason: Construction Management Services are aligned with the timing of construction projects. The full amount of funding will not be required in Fiscal Year 2023. The balance of the funds for this project will be reappropriated into the Operating Budget for electric power (Object Code 4610).



INCREASE APPROPRIATIONS (OPERATING)

Business Unit: Fixed Charges and Debt Service (5990), Account 4610: Electric Power – Water Distribution Facilities

<u>Appropriation</u>	<u>Present</u>	<u>Proposed</u>
OPERATING FUND	26,000,000	31,000,000

Reason: The proposed amount reflects additional funding required to cover projected electricity costs, through June 30, 2023. The additional funding requirement is a result of unanticipated increases in the cost of electricity in FY 2023



BUDGET AMENDMENT SUMMARY

Resolution 941, 2022

FY 2023 CIP Budget (as Adopted)	\$181,109,325
FY 2023 Operating Budget (as Adopted)	<u>\$237,240,444</u>
TOTAL APPROPRIATION:	\$418,349,769

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Projects – Added	+\$33,500,000
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FY 2023 Operating Budget (as Adopted)	<u>\$237,240,444</u>
TOTAL APPROPRIATION:	\$421,316,769

FY 2023 – Amendment No. 2	
Projects – Modified Appropriations	(\$5,000,000)
CIP SUB-TOTAL	\$179,076,325

Reprogram to Operating Budget	<u>+\$5,000,000</u>
OPERATING BUDGET SUB-TOTAL	\$242,240,444

FY 2023 CIP Budget (as Amended)	\$179,076,325
FY 2023 Operating Budget (as Amended)	<u>\$242,240,444</u>
TOTAL APPROPRIATION	\$421,316,769





Mahalo!

BOARD OF WATER SUPPLY

Revisions to the Fiscal Year 2023
Operating and Capital Improvement
Program Budgets

April 24, 2023

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

ITEM FOR INFORMATION NO. 3

"April 24, 2023

RECRUITMENT
STATUS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Recruitment Status

Michele Thomas, Executive Assistant I, Human Resource Office, will give the report.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Michele Thomas, Executive Assistant I, Human Resources Office, gave the report.

Board Member Anthony suggested that the BWS's quick response (QR) code should also be added to vehicles.

Ms. Michele Thomas stated that the BWS is exploring the opportunity but must check the limitations and what is prohibited in a unionized environment.

Board Member Anthony asked what method of recruitment attracts the most applicants.

Ms. Thomas responded that in previous years the BWS has participated in multiple job fairs; however, found that social media attracts a lot of job seekers. She stated that Human Resources Office had noticed the lack of understanding of the opportunities available at the BWS.

Chair Andaya inquired about some of the recurring reasons employees choose to resign from the BWS.

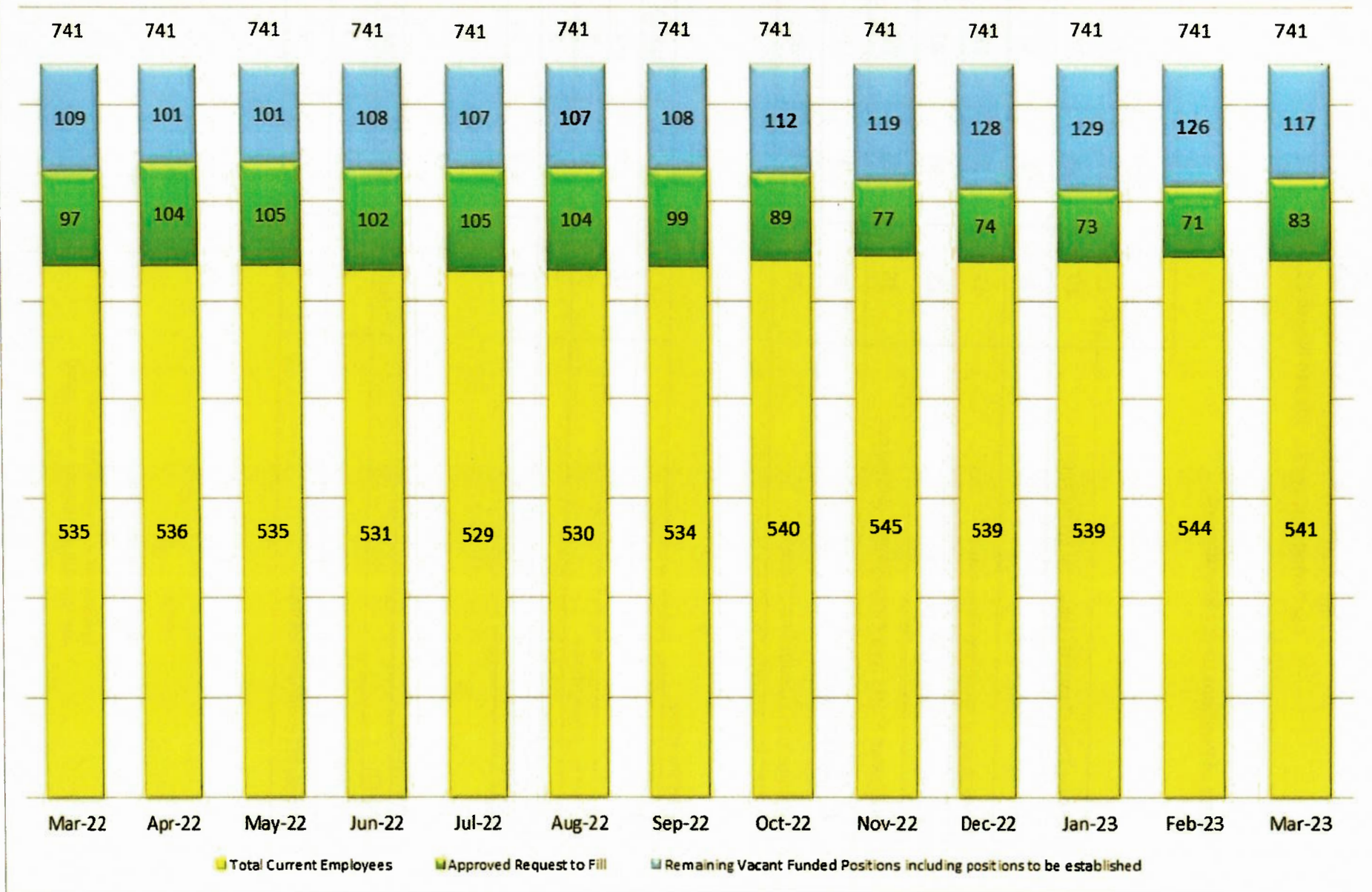
Ms. Thomas responded that there is a phenomenon known as the "Great Reshuffle," previously known as the "Great Resignation." She explained that many individuals, due to the pandemic found new opportunities that would benefit them, such as compensation, flexibility in work hours, or the ability to balance personal and work life. The BWS continues to discuss

the opportunity of capitalizing on various flexible opportunities and providing an inviting and worthy work environment, which an individual may not find in the private sector.

Board Member Anthony asked if there has been any success in mainland recruitment.

Ms. Thomas stated there has been success in higher-level positions, but not much for lower-level positions since relocation costs are not offered.

Positions Filled March 1, 2022 through March 31, 2023



For the Period Jan23 – Mar23 Actions: 18 New hires, 6 Promotions, 6 Transfers, 16 Separations

BOARD OF WATER SUPPLY

City and County of Honolulu

RECRUITMENT AND SEPARATION STATUS For Period January 31, 2023 to March 31, 2023

Status of Positions Under Recruitment

	as of		
	1/31/2023	2/28/2023	3/31/2023
Pending DHR Open List (external recruitment)	20	28	25
Pending Internal recruitments	2	2	2
Pending Final Interview Questions	11	9	17
Pending Interviews with Division	25	16	20
Anticipated Starts (pre-employment clearances)	15	15	20
Cancelled Requests	0	1	1
Total Positions Under Recruitment	73	71	85

Filled Positions

Month	Jan-23	Feb-23	Mar-23
Open list	7	8	6
Internal Promotions	1	0	2
Internal Demotions/Transfers	2	2	2
Reallocations	2	2	5

Separations

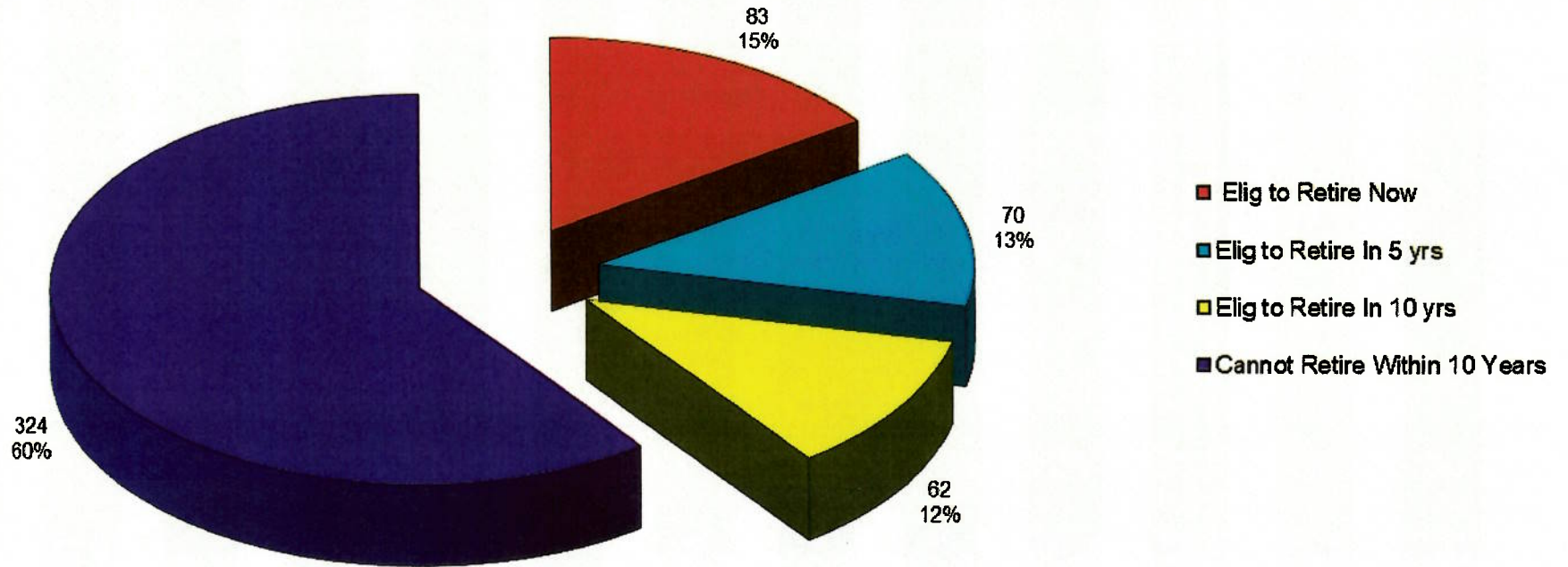
Month	Jan-23	Feb-23	Mar-23
Retire	0	0	1
Resign/Termination/Other	5	3	7

Legend:

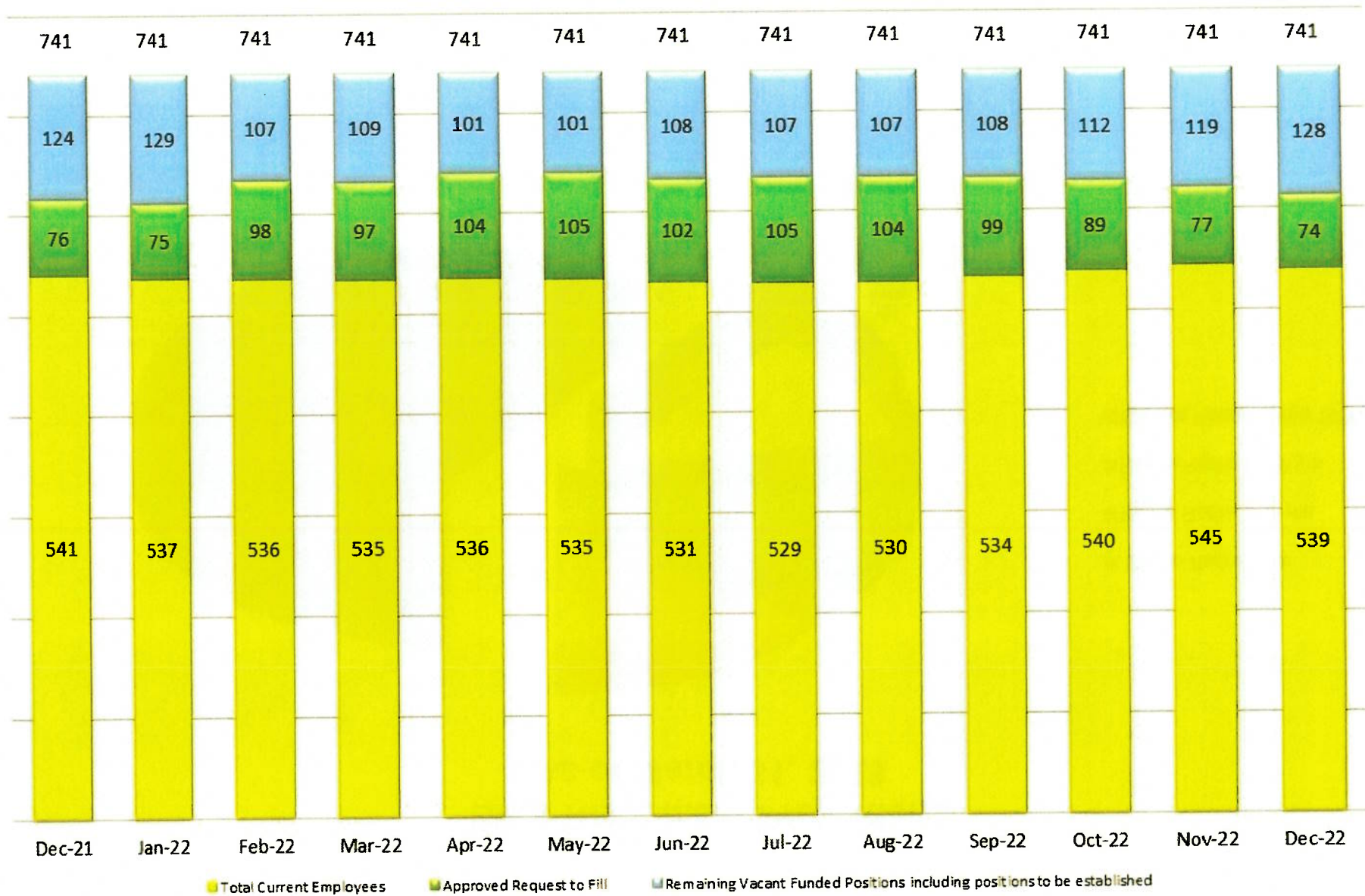
DHR = Department of Human Resources City and County of Honolulu

Reallocation = Employee has demonstrated competency in higher level position and position was adjusted

BWS Retirement Projections As of March 31, 2023



Positions Filled December 1, 2021 through December 31, 2022



For the Period Oct22 – Dec22 Actions: 26 New hires, 12 Promotions, 1 Demotion, 21 Separations

BOARD OF WATER SUPPLY

City and County of Honolulu

RECRUITMENT AND SEPARATION STATUS

For Period October 31, 2022 to December 31, 2022

Status of Positions Under Recruitment

	as of		
	10/31/2022	11/30/2022	12/31/2022
Pending DHR Open List (external recruitment)	23	20	26
Pending Internal recruitments	6	2	0
Pending Final Interview Questions	9	7	9
Pending Interviews with Division	24	27	19
Anticipated Starts (pre-employment clearances)	25	21	19
Cancelled Requests	2	0	1
Total Positions Under Recruitment	89	77	74

Filled Positions

Month	Oct-22	Nov-22	Dec-22
Open list	10	11	6
Internal Promotions	4	4	3
Internal Demotions/Transfers	0	1	0
Reallocations	7	5	1

Separations

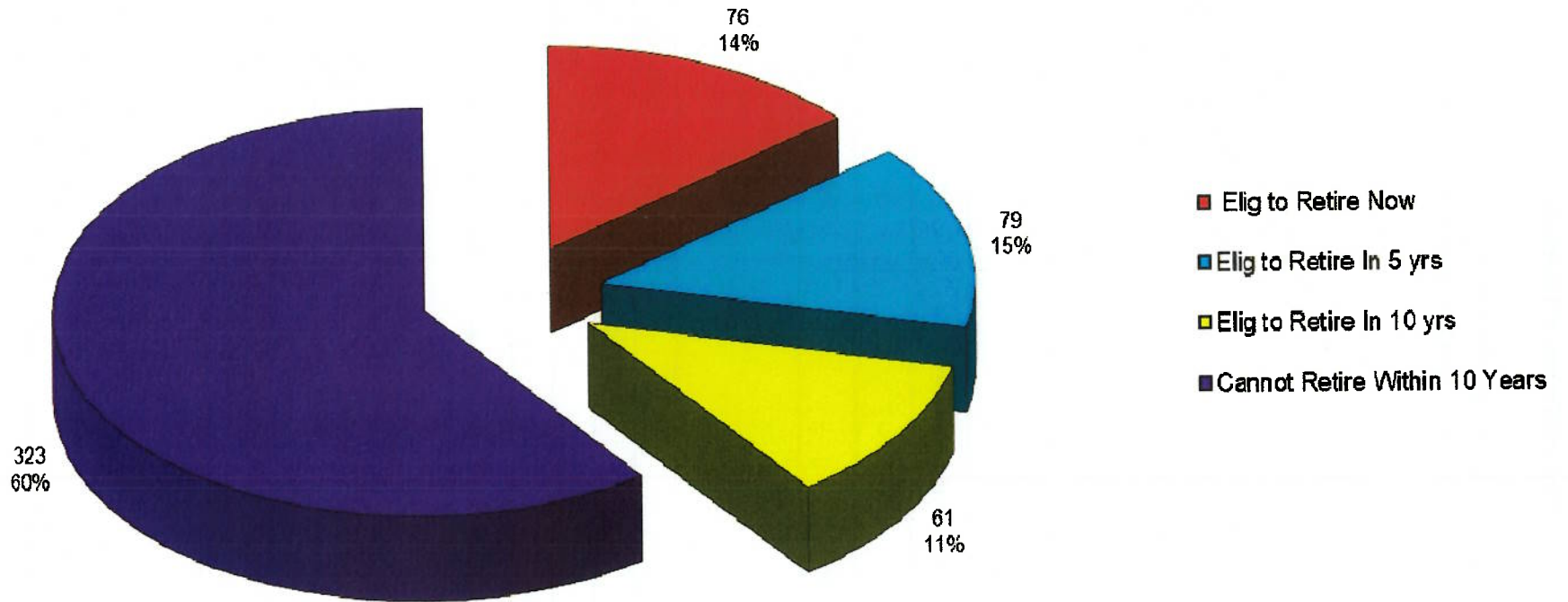
Month	Oct-22	Nov-22	Dec-22
Retire	1	1	7
Resign/Termination/Other	2	5	5

Legend:

DHR = Department of Human Resources City and County of Honolulu

Reallocation = Employee has demonstrated competency in higher level position and position was adjusted

BWS Retirement Projections As of December 31, 2022





RECRUITMENT STATUS UPDATE

Michele L. Thomas

January 23, 2023

boardofwatersupply.com

HR HIGHLIGHTS


- Targeted Advertisement w/ various trade publications & water sector associations
- Leveraging social media
- BWS Jobs FAQ's Web Page
- Getting employees involved in spreading the word



We're hiring!

Civil Engineer V
Plans Review Supervisor
Capital Projects Division

Visit bwsjobs.org or honolulu.gov/hr



Why work at the Board of Water Supply?



- ✓ Great co-workers who care about our island home.
- ✓ Chance to contribute to Oahu's water future.
- ✓ Job satisfaction knowing my work makes a difference.

Visit bwsjobs.org or honolulu.gov/hr for available positions.



TARGETED ADVERTISEMENT

BC WATERJOBS
WHERE THE INDUSTRY GETS TO WORK

Civil Engineer V - Design and Plans Review Branch

POSITION INFORMATION
As a Civil Engineer V in the Honolulu District of Water Supply, Civil/Plumbing Division, Design and Plans Review Branch, this position is responsible for a number of complex and varied engineering projects (including infrastructure) where the primary professional engineering work is reviewing the design, construction, maintenance, and operation of civil engineering projects, projects and perform the design of plans and specifications to allow construction with Board of Water Supply Water System Standards, and performs other related duties as required.

Special Task Requirements Working with project investigations conducted through high tension and heavy duty, carrying loads to support structures over 20 feet in height, and entering enclosed reservoirs, pipelines and tunnels to conduct inspections.

ADDITIONAL JOB INFORMATION
Where of application, you must be a citizen, resident or permanent resident of the State of Hawaii or a qualified alien citizen. Need to be licensed employment.

EDUCATION/EXPERIENCE REQUIREMENTS
A minimum of a Bachelor's degree in an engineering specialty.
EDUCATION/EXPERIENCE One year of equivalent professional Civil Engineering experience.

LICENSE/REGISTRATION
1. Current State of Hawaii registration as a professional engineer in Civil Engineering, Electrical Engineering, Mechanical Engineering, or Architectural Engineering. Must be in good standing with the State Board of Professional Engineering Examiners, which includes good re-examination and satisfactory practice experience.
Note: Applicants with an out-of-state license in Civil Engineering must obtain the Hawaii license prior to appointment.
2. Candidates for hire: This is a limited-term appointment.

REASON FOR POSITION/REQUIREMENT CHANGES In addition to meeting the above minimum qualifications, your application will be further evaluated, your score will be based on the quality, quantity and relevancy of your education and experience.

HOW TO APPLY
APPLY HERE [Click Here](#)

NOTE: This announcement is intended as a general description of recruitment guidelines and is subject to change. It does not constitute either an agreement or implied contract.

Job created: 09/16/2024
[Return to Job Listings](#)

ASSISTANT PROGRAM ADMINISTRATOR (WSO)
 2021-04-02 Honolulu Board of Water Supply 437 South Beretania Street, 5
 Negotiable year

Description:
 Assists in managing or directing a major organizational division of the Board of Water Supply, assists in setting out the objectives and goals of the department through subordinate managers and supervisors, and performs other related duties as required.

This position assists in administering the activities of the Water System Operations Division which is responsible for the operations and maintenance of purging and water treatment plant equipment, plant facilities, and communications and electronic control systems. Duties may include but are not limited to the following: assists in determining division and program priorities necessary to carry out the goals and objectives of the division; assists in reviewing and evaluating division programs and establishing long and short term goals and objectives; directs the day-to-day operations of the division; oversees the supervision of the division's activities; reviews and recommends resolution or disposition of personnel issues; authorizes work orders, plans and directs, assigns work to control supervisors, etc. for management approval; handles public complaints, including drafting correspondence, investigations, etc.; reviews, evaluates, and recommends proposals to improve effectiveness and efficiency in water service operations including water pumping, transmission, distribution, and storage systems; operation of pump facilities, related office facilities, maintenance of machinery and equipment repairs, fabric and temporary substitutes work; performs, conducts inspections of pump facilities, reservoirs, basins, treatment plants, shafts, tunnels, etc.; office facilities, and machinery; coordinates emergency functions between appropriate division in handling water interruptions and complaints; coordinates and reviews annual budget preparation and assists in the implementation of the budget; monitors division investigations and studies; represents the Program Administrator in public hearings and presents information and testimony with high-level government officials and governing bodies advocating its operating programs and priorities and resolving issues.

Searching for a stable job with good benefits?

We're Hiring!

Water Microbiologist V
 Water Quality Division

Apply TODAY!
 Visit bwsjobs.org or honolulu.gov/hr

Take the plunge and become a water professional.

- ◆ Civil Engineers
- ◆ Data Processing Analysts
- ◆ Microbiologists
- ◆ Technicians
- ◆ Plant Superintendents

Permanent positions now open.
www.boardofwatersupply.com/jobs [f](#) [t](#) [i](#) [v](#)

LEVERAGING SOCIAL MEDIA

Reasons to
Work for the BWS

-  Make a difference in our island home
-  Address cutting-edge issues and challenges
-  Generous medical coverage and sick leave
-  Each year: up to 21 days of vacation + 12 paid holidays

APPLY TODAY
Link in post



Board of Water Supply

Visit us at the
UH Manoa
College of Engineering
Career Expo
Spring 2023

Virtual Tues., Feb. 21, 2023 9AM to Noon Brazen platform	In-person Fri., Feb. 24, 2023 10AM to Noon Holmes Hall
--	--

Join our team -- we're hiring!
boardofwatersupply.com/jobs/featured#bws



Board of Water Supply

We're hiring!

Geographic Information System Analyst III
Full-time, Permanent



Apply by:
12/28/2022, 11:59 PM HST
Link in post



Board of Water Supply

BUILD your IT career with us

Chat with us at
University of Hawaii
at Manoa's



Tech & Intelligence Virtual Career Expo
Fri., March 24
10AM - 1PM
Registration link in bio

Our network infrastructure is one of the **LARGEST** in local government



Board of Water Supply



BWS Honolulu



@BWSHonolulu



@BWSHonolulu



LinkedIn



NextDoor



ALTERNATIVE RECRUITMENT STRATEGIES

- Leveraging City status as 2022 Best-In-State on Forbes List

- Partnerships w/ City

- HI Employment Job Fairs
- City's Contract Position Portal



- Partnerships w/ local schools & agencies

- PBN Workforce Forum (December 2022)
- PBN 10th Annual Mentoring Monday Event (February 2023)
- STEM Works 2023 HI STEM Conference



HI CAREER EXPO



Visit the City and County of Honolulu at the
Hawaii Career Expo on January 25th!

**AMERICA'S
BEST-IN-STATE
EMPLOYERS
HAWAII**

**Forbes
2022**

POWERED BY STATISTA

HAWAII CAREER EXPO

Wednesday, January 25, 2023

9:00 am - 2:00 pm

Neal Blaisdell Center Exhibition Hall
777 Ward Avenue, Honolulu, HI 96814



Visit the City & County of Honolulu at the:

HAWAII CAREER EXPO

Wednesday, January 25, 2023
9:00 am - 2:00 pm


TODAY!

Neal Blaisdell Center Exhibition Hall
777 Ward Avenue, Honolulu, HI 96814

Partnership w/ City DHR



PACIFIC BUSINESS NEWS
FOCUS FORUM: WORKFORCE DEVELOPMENT



FOCUS FORUM

Workforce Development

EXPERT INSIGHTS ON RECRUITMENT, CAREER DEVELOPMENT, AND EMPLOYEE RETENTION.

FOCUS FORUM | Sponsored by: Honolulu Board of Water Supply and Lawson & Associates Inc.



PACIFIC BUSINESS NEWS 10TH ANNUAL MENTORING MONDAY



When: Monday, February 27, 2023
3:00pm – 5:00pm

Where: Prince Waikiki Pi'inaio Ballroom
100 Holomoana St.
Honolulu, HI 96815



STEM WORKS 2023 HI STEM CONFERENCE

When: Wednesday, May 3, 2023 &
Thursday, May 4, 2023
All day event

Where: HI Convention Center
1801 Kalakaua Avenue
Honolulu, HI 96815





Hawaii's Sector Partnerships are industry-led, community-supported collaboratives that strengthen local economies, prepare and connect Hawaii's young people to careers in high-demand industries, and build local, skilled talent pipelines.

We bring local industry leaders, educators, and community stakeholders together to shape Hawaii's future workforce and get students excited about career opportunities. We partner with Hawaii DOE schools and post-secondary institutions to create seamless Kindergarten-to-Career pathways for Hawaii's students.

Current Sector Partnerships

Each Sector Partnership meets quarterly



Engineering

The Engineering Sector Partnership's mission is to grow Hawaii's engineering and STEM talent pipeline, connecting Hawaii's young people to in-demand, local jobs.
Priority Workgroups: Career Awareness, Women in STEM, Math Readiness



Healthcare

The Healthcare Sector Partnership's mission is to address our state's healthcare workforce shortage by strengthening Hawaii's healthcare career pathway.
Priority Workgroups: Career Awareness, Training & Transitions to Employment, Curriculum Support



Information Technology

The IT Sector Partnership's mission is to build Hawaii's IT workforce and ensure every local IT job has a qualified local candidate.
Priority Workgroups: Career Awareness & Preparation, Training & Transitions to Employment, Alignment between Education & Industry

Opportunities to engage with Sector Partnerships in Clean Energy, Creative Industries, Natural Resources, and Aquaculture are also available. Email us to be connected!



Join Sector Partnerships
sectorpartnerships@cochawaii.org



Learn More
cochawaii.org/sector-partnerships/

Convened by



Chamber of Commerce HAWAII

Mahalo to our Sponsors and Co-Conveners



ON THE HORIZON...

- CoC HI Sector Partnerships Program
- Integrating career awareness into other aspects of the BWS's community outreach & everyday activities



BWS COMMERCIAL SPOT

- https://www.dropbox.com/s/9vtgf1wigut17nx/2023_BoWS_rev_D3.mp4?dl=0





Mahalo!

BOARD OF WATER SUPPLY

Recruitment Status Update

Michele L. Thomas

(808) 748-5160, mthomas@hbws.org

boardofwatersupply.com for more information

January 23, 2023

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

ITEM FOR INFORMATION NO. 4

"April 24, 2023

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Four aquifer index stations were in low groundwater condition for the production month of March 2023. Kaimuki, Pearl City, and Waialua are in Caution Status. Punaluu is in Alert Status. The monthly production average for March 2023 was 124.23 million gallons per day.

The Board of Water Supply rainfall index for the month of March 2023 was 68 percent of normal, with a 5-month moving average of 92 percent. As of April 4, 2023, the Hawaii Drought Monitor shows zero drought conditions across Oahu. The National Weather Service is forecasting below-normal precipitation between May and September 2023.

Most monitoring wells exhibited relatively stable head levels for the month of March 2023, likely reflecting the lower overall groundwater production, offset somewhat by relatively low rainfall. Average monthly production for March 2023 was lower than in March 2022 and lower than 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. There were no comments or discussion.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MARCH 2023**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.13
AINA KOA	0.00
AINA KOA II	0.63
MANOA II	0.94
PALOLO	1.03
KAIMUKI HIGH	1.88
KAIMUKI LOW	1.15
WILDER	9.00
BERETANIA HIGH	2.40
BERETANIA LOW	1.48
KALIH HIGH	0.00
KALIH LOW	5.00
KAPALAMA	1.38
KALIH SHAFT	7.98
MOANALUA	0.76
HALAWA SHAFT	0.00
KAAMILO	0.57
KALAUAO	9.14
PUNANANI	12.18
KAHUMANU	0.24
HECO WAIU	0.00
MANANA	0.26
WAIALAE IKI	0.48
WELLS SUBTOTAL:	56.61
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	56.78

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.15
WAIMANALO III	0.00
KUOU I	0.71
KUOU II	0.55
KUOU III	0.72
LULUKU	0.77
HAIKU	0.28
IOLEKAA	0.00
KAHALUU	0.53
KAHANA	0.92
PUNALUU I	0.00
PUNALUU II	1.44
PUNALUU III	0.00
KALUANUI	1.48
MAAKUA	0.27
HAUULA	0.21
WELLS SUBTOTAL:	8.04
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.66
WAIHEE TUNNEL	3.82
LULUKU TUNNEL	0.26
HAIKU TUNNEL	0.29
KAHALUU TUNNEL	1.82
GRAVITY SUBTOTAL:	7.03
WIND. SUBTOTAL:	15.07

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.33
OPANA	0.90
WAIALEE I	0.21
WAIALEE II	0.08
HALEIWA	0.00
WAIALUA	1.64
N.SHORE SUBTOTAL:	3.17

STATION	MGD
MILILANI (4)	
MILILANI I	0.93
MILILANI II	0.00
MILILANI III	0.54
MILILANI IV	2.26
MILILANI SUBTOTAL:	3.73

STATION	MGD
WAHIAWA (5)	
WAHIAWA	1.22
WAHIAWA II	1.37
WAHIAWA SUBTOTAL:	2.59

STATION	MGD
PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	0.00
AIEA GULCH 550	0.21
KAONOH I	1.63
WAIMALU I	0.00
NEWTOWN	1.63
WAIU	1.64
PEARL CITY I	0.83
PEARL CITY II	1.03
PEARL CITY III	0.23
PEARL CITY SHAFT	0.90
PEARL CITY-HALAWA SUBTOTAL:	8.09

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	0.81
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.20
WAIPIO HTS. III	1.20
WAIPAHU	6.70
WAIPAHU II	1.92
WAIPAHU III	4.31
WAIPAHU IV	2.59
KUNIA I	2.41
KUNIA II	1.90
KUNIA III	0.00
HOAEAE	6.11
HONOULIULI I	0.40
HONOULIULI II	2.45
MAKAKILO	0.10
WAIPAHU-EWA SUBTOTAL:	31.09

STATION	MGD
WAIANAE (8)	
MAKAHA I	0.63
MAKAHA II	0.00
MAKAHA III	0.12
MAKAHA V	0.07
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.28
WAIANAE II	0.00
WAIANAE III	0.95
WELLS SUBTOTAL:	2.04
WAI. C&C TUNNEL	1.40
WAI. PLANT. TUNNELS	0.27
GRAVITY SUBTOTAL:	1.67
WAIANAE SUBTOTAL:	3.71

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.54
BARBERS POINT WELL	0.95
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	1.78

RECYCLED WATER (FEBRUARY 2023)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	4.36
HONOULIULI WRF RO	1.26
RECYCLED TOTAL:	5.62

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MARCH 2023**

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	115.35
GRAVITY	8.87
POTABLE TOTAL:	124.23
NONPOTABLE	1.78
RECYCLED WATER	5.62
TOTAL WATER:	131.63

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE/ BWS YLDS	MAR 2022	DIFF. A-B
1	HONOLULU	83.32	56.61	26.71
2	WINDWARD	25.02	15.07	9.95
3	NORTH SHORE	4.70	3.17	1.53
4	MILILANI	7.53	3.73	3.80
5	WAHIAWA	4.27	2.59	1.68
6	PEARL CITY-HALAWA	12.25	8.09	4.16
7	WAIPAHU-EWA	50.63	31.09	19.54
8	WAIANAЕ	4.34	3.71	0.63
TOTAL:		192.06	124.06	68.00

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS		A	B	C
		PERMITTED USE	MAR 2022	DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	0.95	0.05
TOTAL:		1.00	0.95	0.05

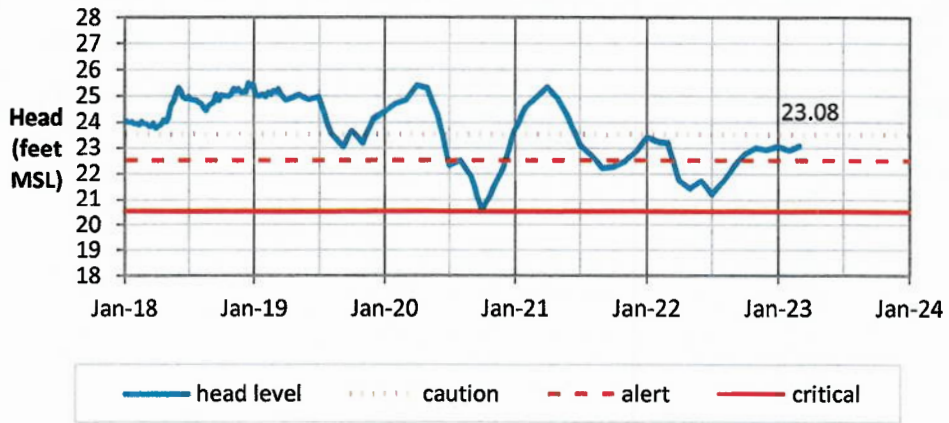
EFFECTIVE WATER DEMAND PER DISTRICT

IMPORT/EXPORT BETWEEN WATER USE DISTRICTS			
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.02
7	8	BARBERS PT LB	4.67

WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	56.78	0.02	-	56.80
2	WINDWARD	15.07	-	0.02	15.05
3	NORTH SHORE	3.17	-	-	3.17
4	MILILANI	3.73	-	-	3.73
5	WAHIAWA	2.59	-	-	2.59
6	PEARL CITY-HALAWA	8.09	-	-	8.09
7	WAIPAHU-EWA	31.09	-	4.67	26.41
8	WAIANAЕ	3.71	4.67	-	8.39
TOTAL:		124.23	4.69	4.69	124.23

Head Report

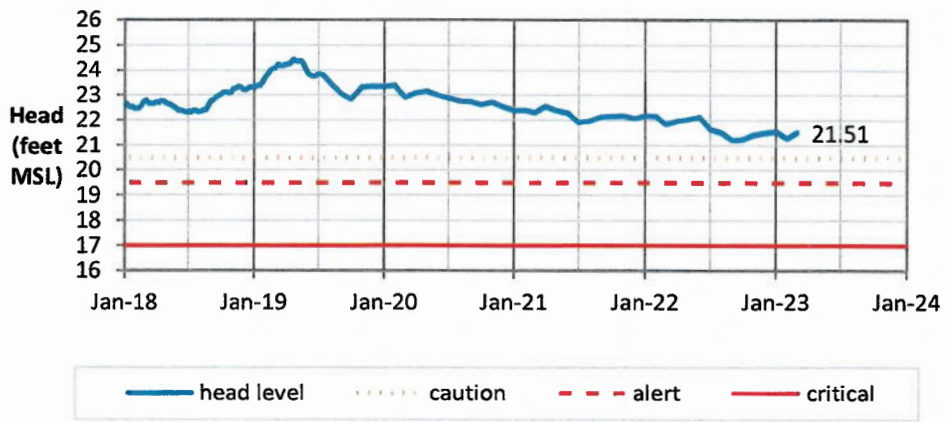
Kaimuki 03/01/23



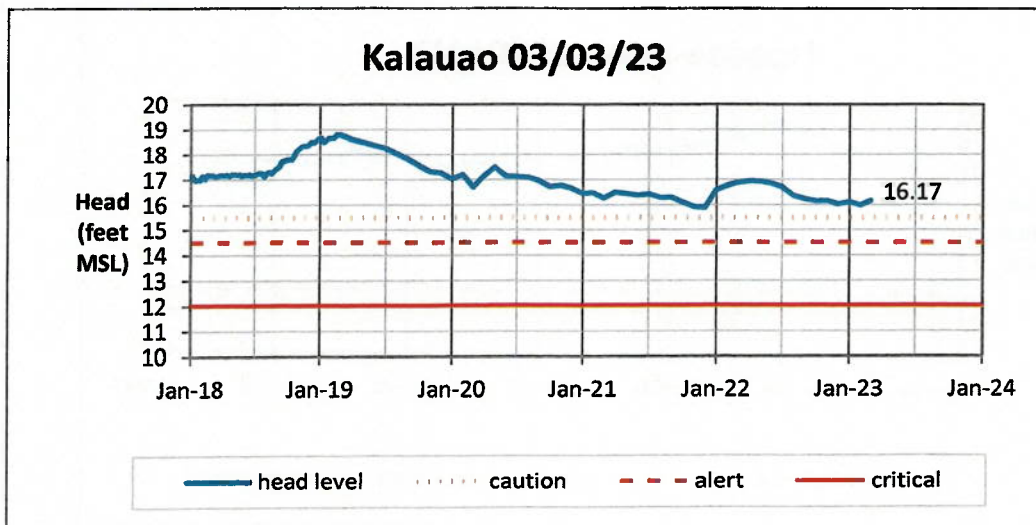
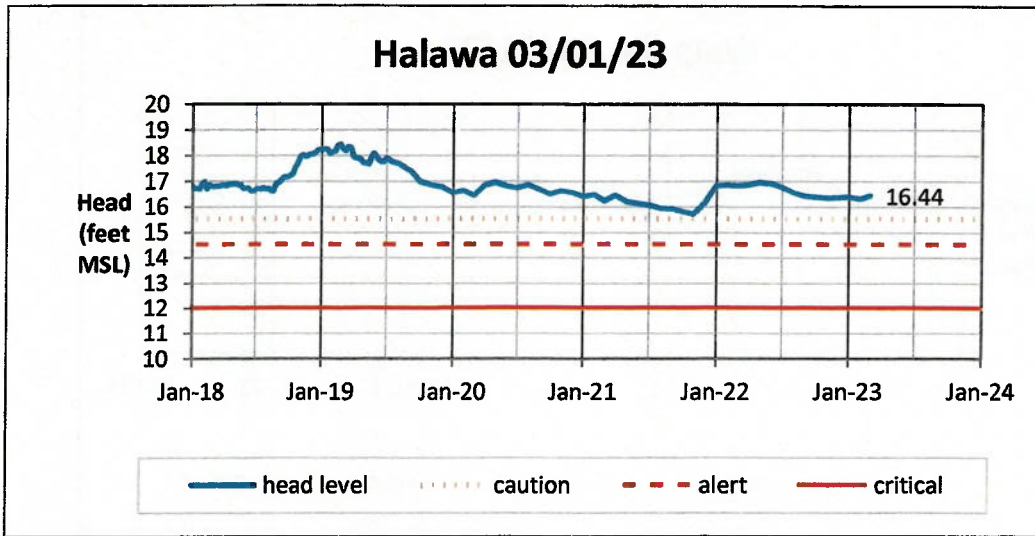
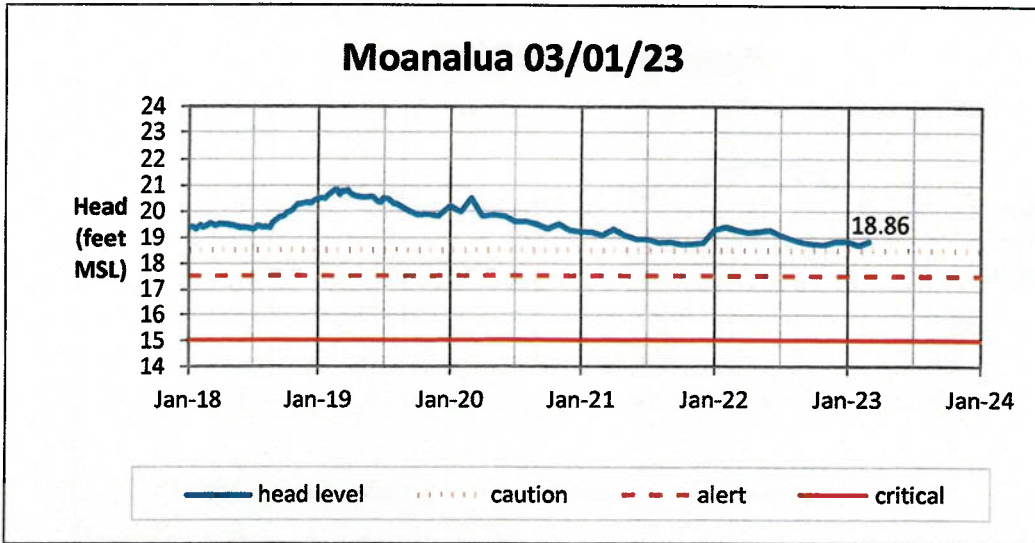
Beretania 03/01/23



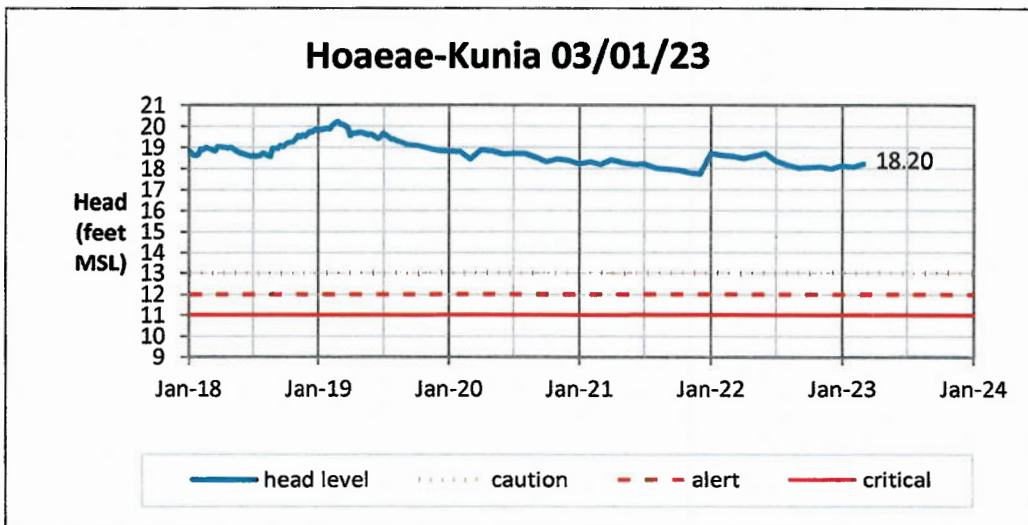
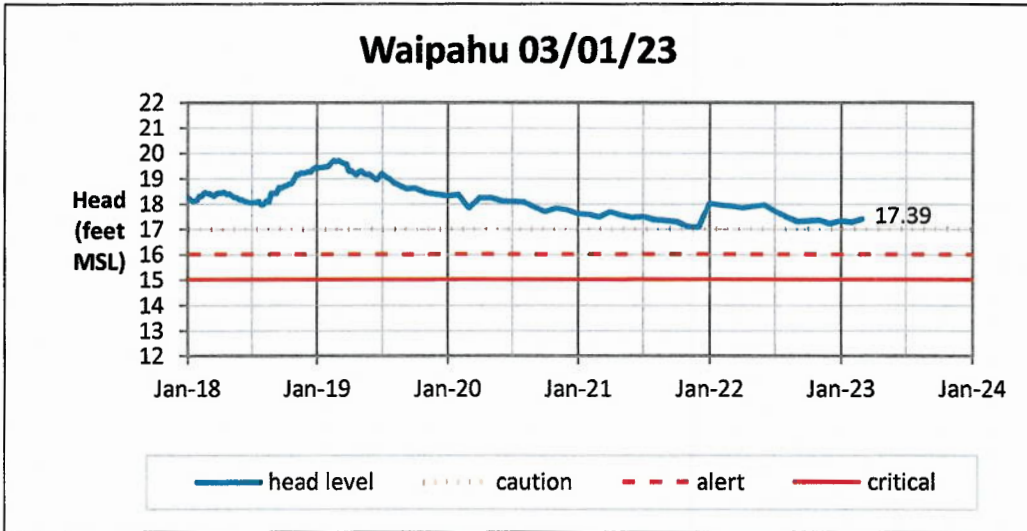
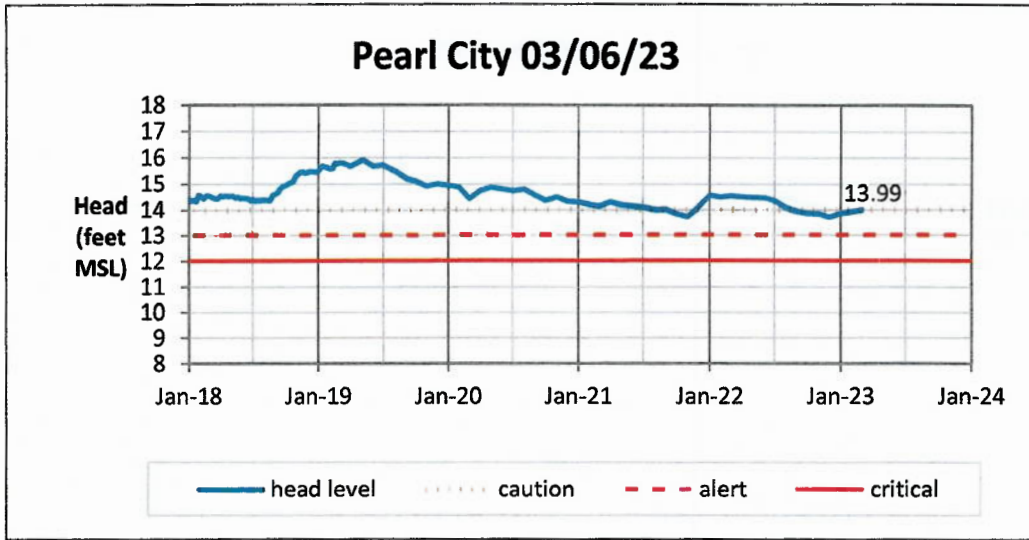
Kalihi 03/01/23



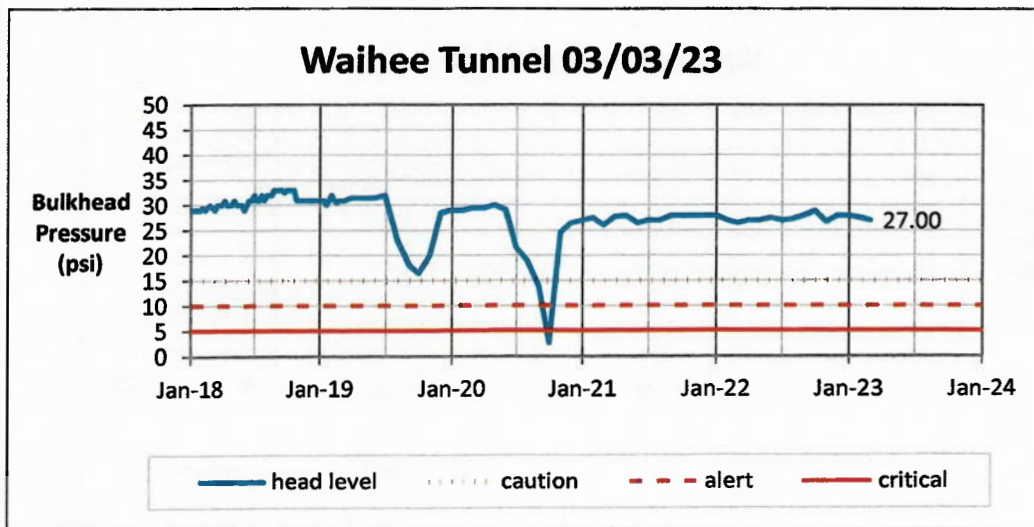
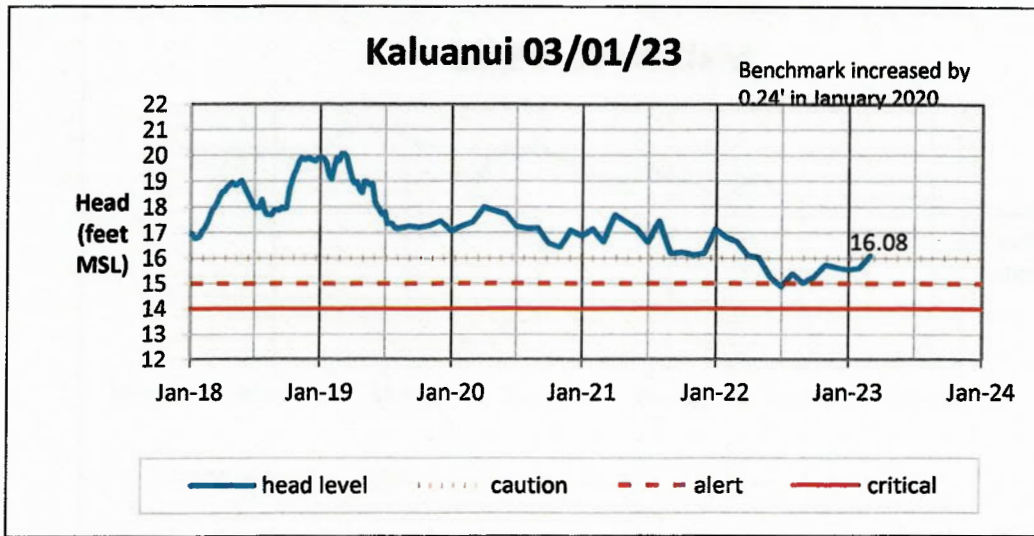
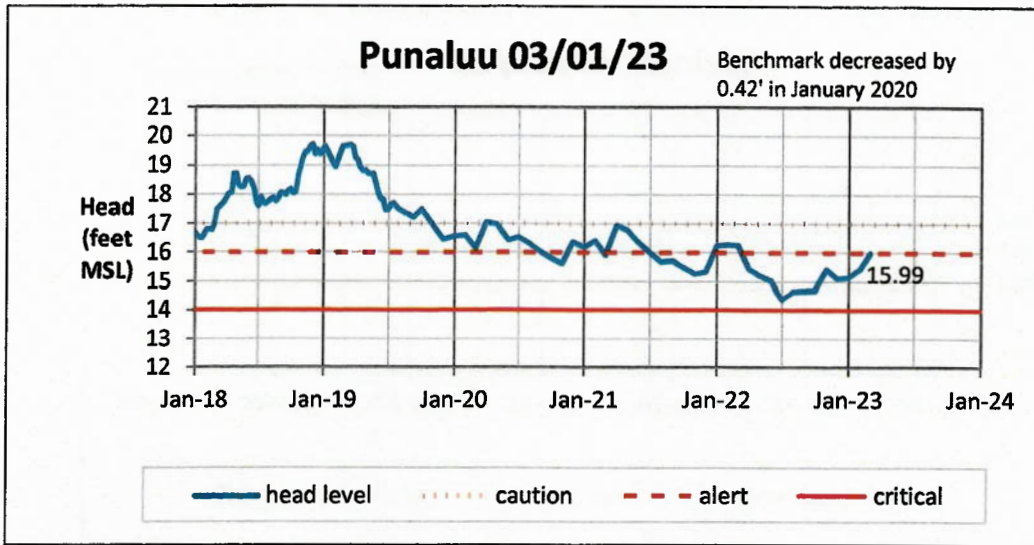
Head Report



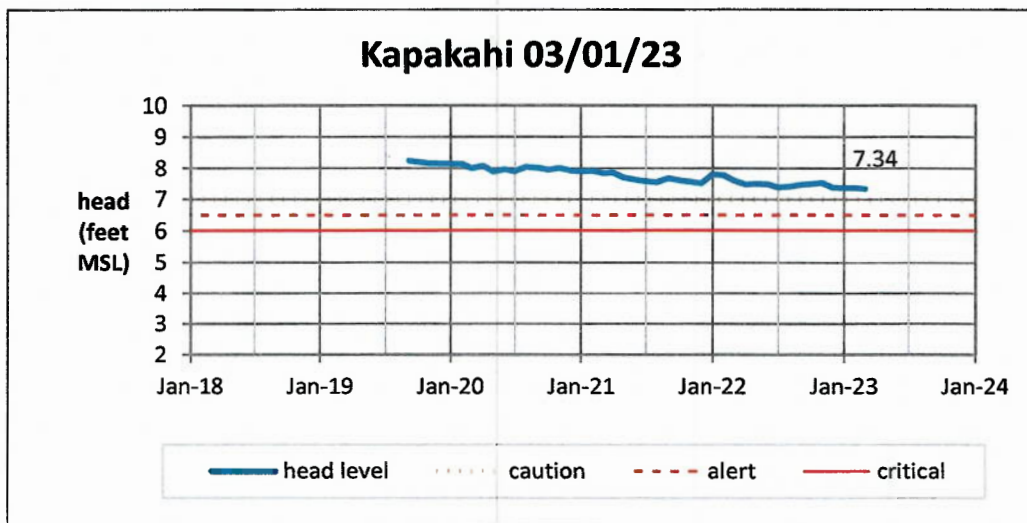
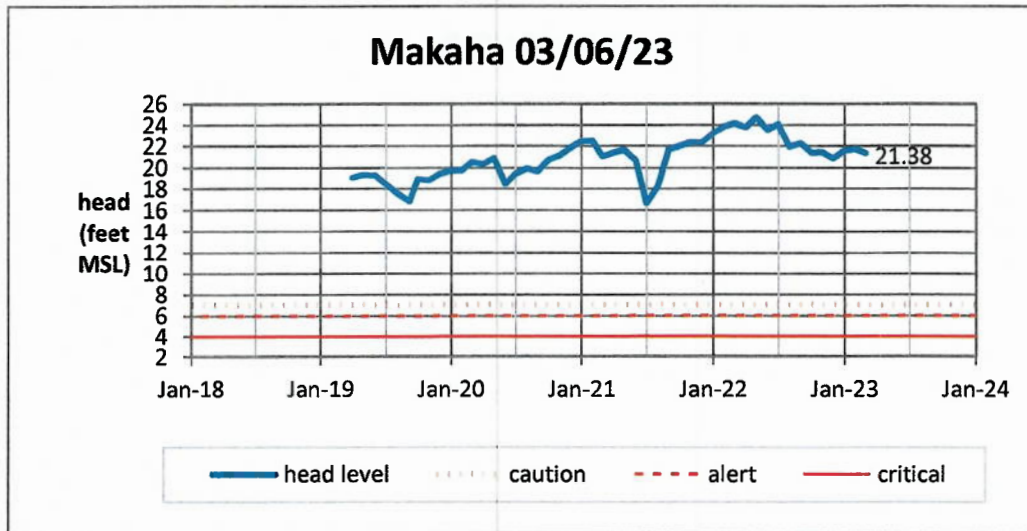
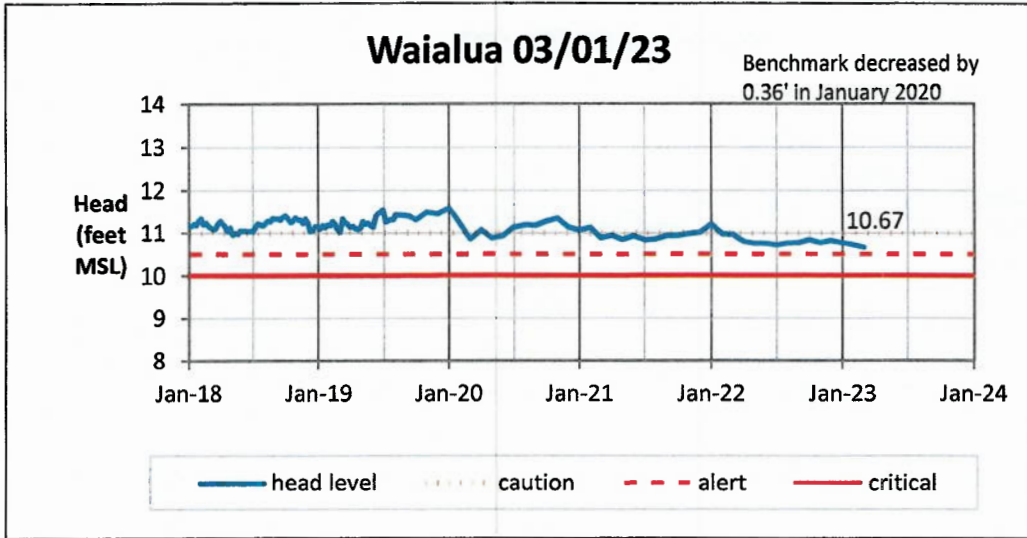
Head Report



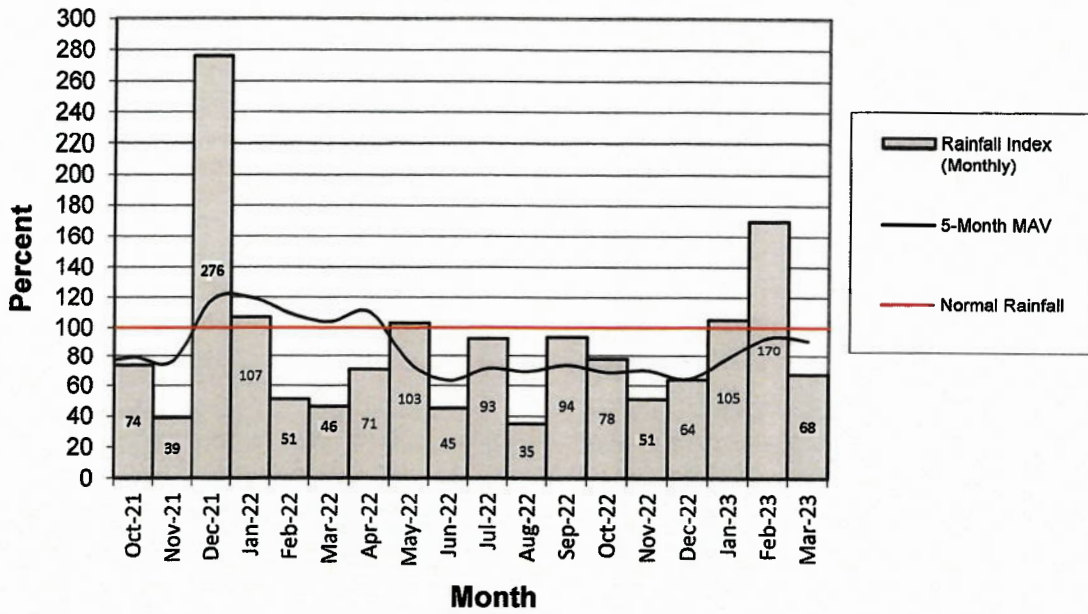
Head Report



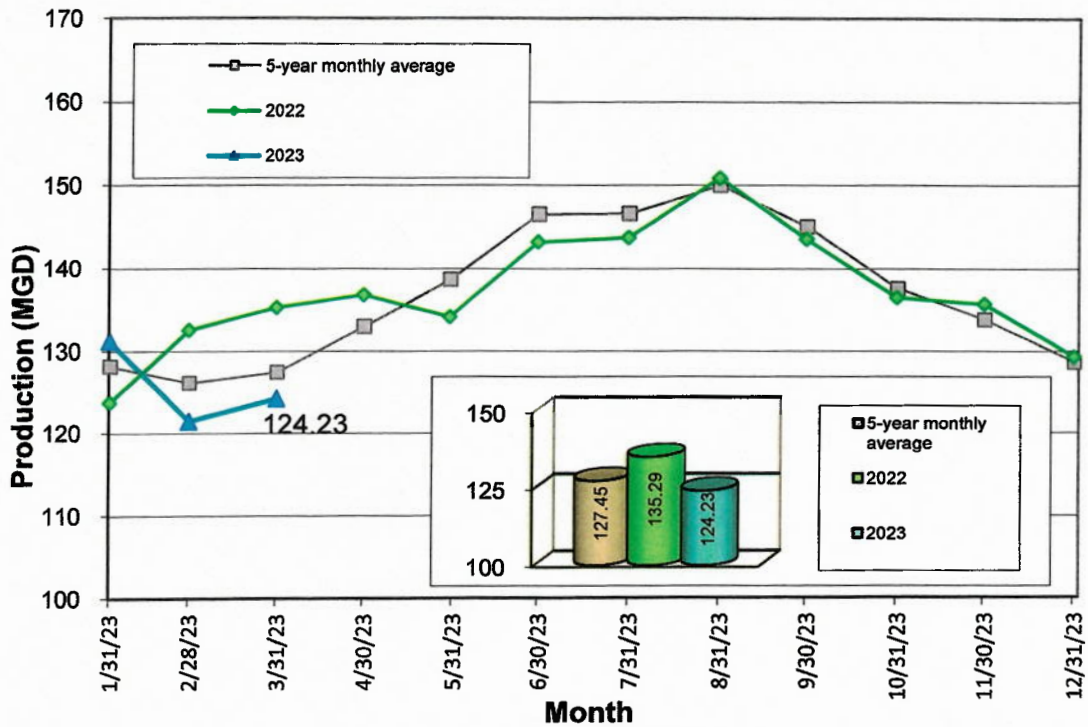
Head Report



HONOLULU WATERSHED AREA Rainfall Intake



Monthly Production



ITEM FOR INFORMATION NO. 5

"April 24, 2023

**WATER MAIN
REPAIR
REPORT FOR
MARCH 2023**

**Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843**

Chair and Members:

Subject: Water Main Repair Report for March 2023

Jason Nikaido, Program Administrator, Field Operations Division, will report on water main repair work for the month of March 2023.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Jason Nikaido, Program Administrator, Field Operations Division, gave the report. There were no comments or discussion.

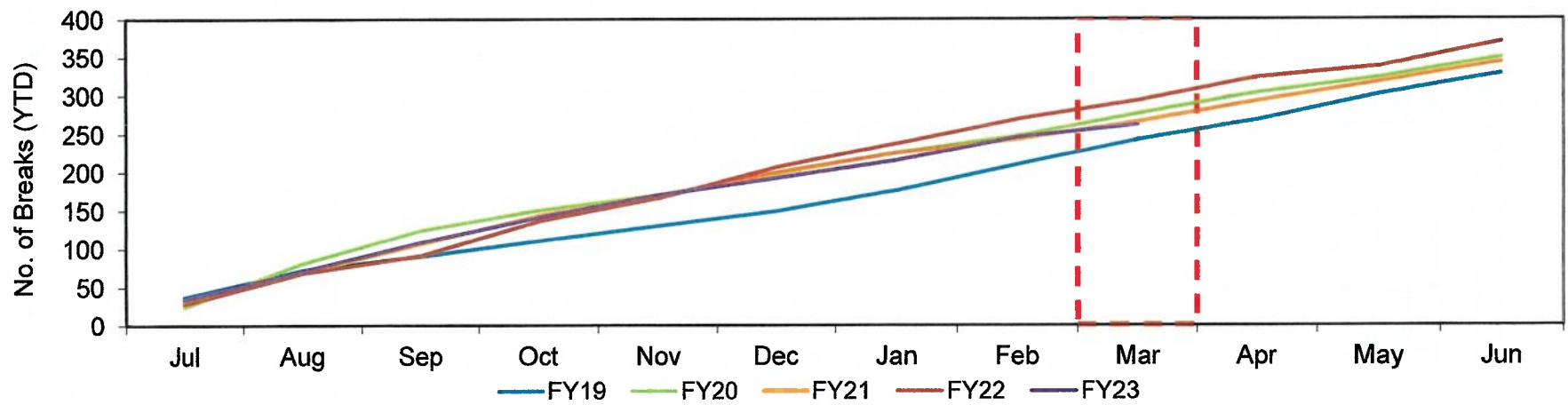
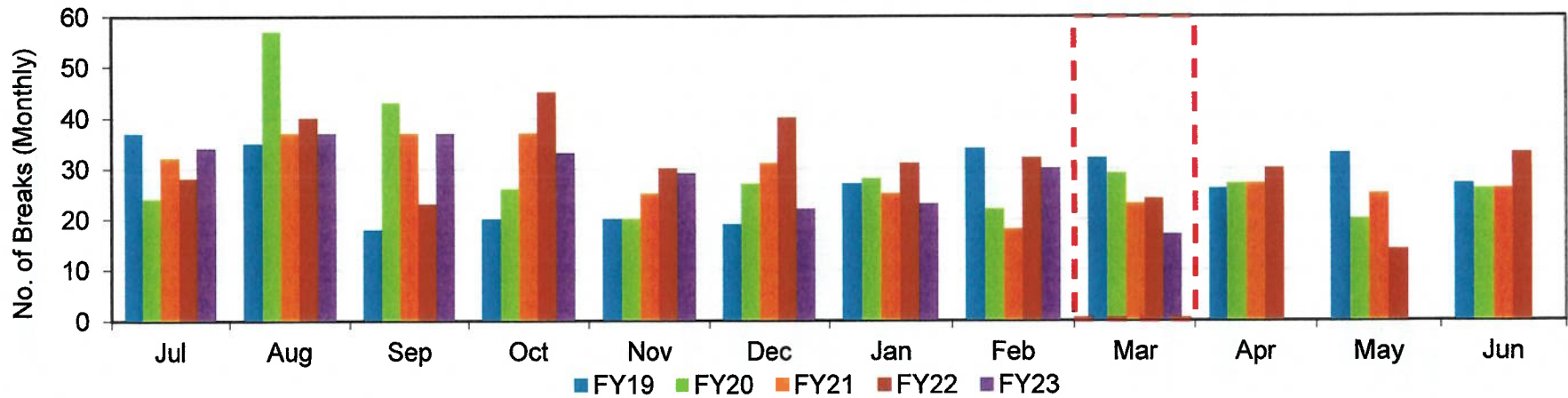
Chair Andaya recalled Information Item number one, Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination to allow remote testifier Ms. Susan Pcola-Davis to testify.

Susan Pcola-Davis	<i>Commented on Ms. Joyce Lin's PPT, slide 3, Closure of Red Hill Bulk Fuel Storage Facility, "keep paying attention."</i>
--------------------------	---

WATER MAIN REPAIR REPORT
for March 2023

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	34	37	37	33	29	22	23	30	17				262
2022	28	40	23	45	30	40	31	32	24	30	14	33	370
2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2019	37	35	18	20	20	19	27	34	32	26	33	27	328

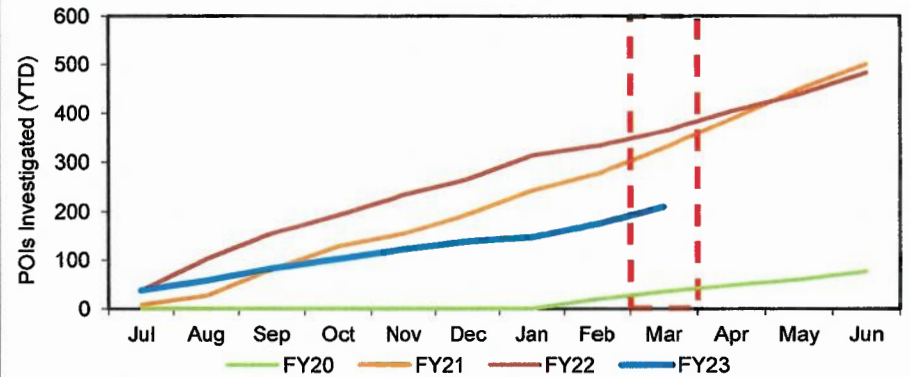
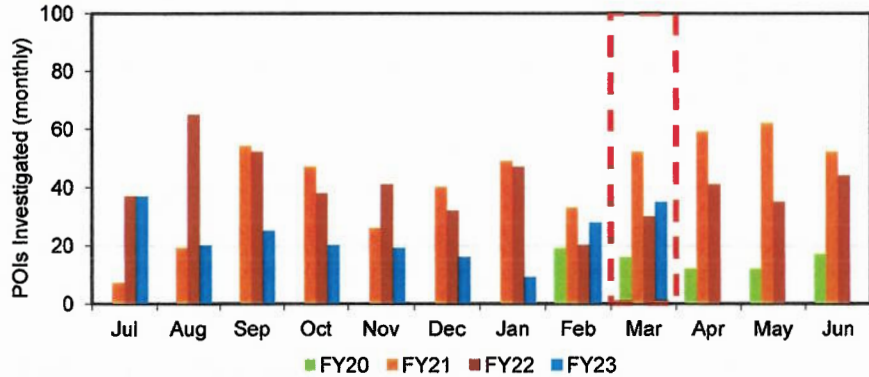


Date	Address	Size (In)	Pipe Type
3/1/2023	417 Keaniani St, Kailua	6	CI
3/3/2023	99-645 Aliipoe Dr, Aiea	8	CI
3/4/2023	2831 Laola Pl, Honolulu	6	CI
3/5/2023	2014 Ohai Ln, Honolulu	8	CI
3/9/2023	1257 7th Ave, Honolulu	12	DI
3/10/2023	1442 Liholiho St, Honolulu	6	CI
3/11/2023	98-2041 Kikala St, Aiea	16	CI
3/16/2023	89-319 Mokiawe St, Waianae	8	CI
3/17/2023	969 Auloa Rd, Kailua	12	CI
3/20/2023	548 Hao St, Honolulu	4	CI
3/22/2023	548 Hao St, Honolulu	4	CI
3/22/2023	801 Auloa Rd, Kailua	12	CI
3/23/2023	91-620 Kilaha St, Ewa Beach	12	CI
3/23/2023	792 Auloa Rd, Kailua	12	CI
3/24/2023	2277 Kamehameha Hwy, Honolulu	4	CI
3/30/2023	704 Hoomoe St, Pearl City	8	CI
3/31/2023	94-1078 Lumiauau St, Waipahu	8	CI

**LEAK DETECTION
for March 2023**

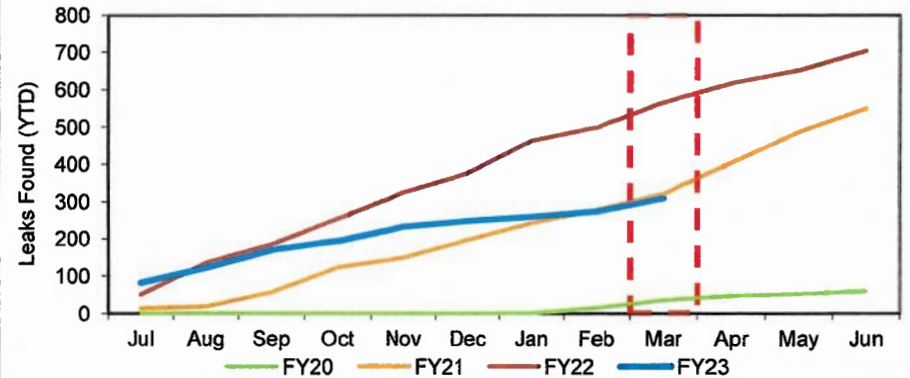
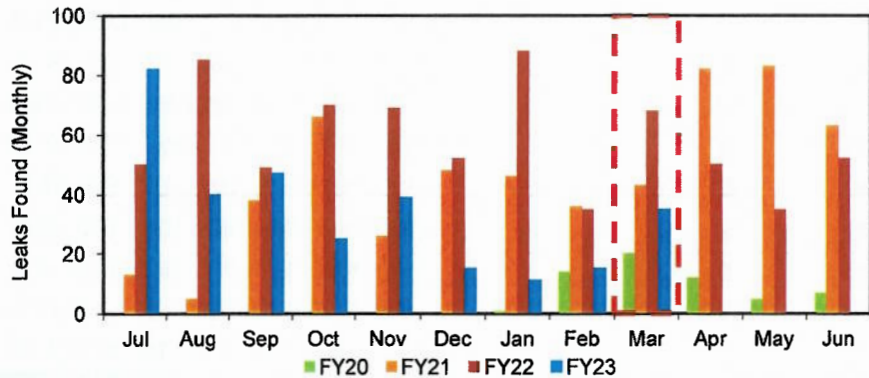
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	37	20	25	20	19	16	9	28	35				209
2022	37	65	52	38	41	32	47	20	30	41	35	44	482
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020								19	16	12	12	17	76



Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2023	82	40	47	25	39	15	11	15	35				309
2022	50	85	49	70	69	52	88	35	68	50	35	52	703
2021	13	5	38	66	26	48	46	36	43	82	83	63	549
2020							1	14	20	12	5	7	59



MOTION TO RECESS INTO EXECUTIVE SESSION

There being no further business Chair Andaya at 3:50 PM called for a motion to adjourn the Open Session. Na'alehu Anthony so moved; seconded by Max Sword and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 3:51 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

OPEN SESSION

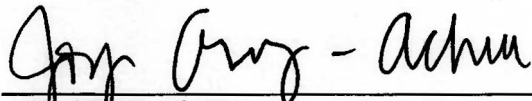
The Board reconvened in Open Session at 5:07 PM.

MOTION TO ADJOURN

There being no further business Chair Andaya at 5:08 PM called for a motion to adjourn the Regular Session. Max Sword so moved, seconded by Jonathan Kaneshiro, and unanimously carried.


THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON APRIL 24, 2023, WERE APPROVED AT THE MAY 22, 2023, BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT			ABSENT
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
EDWIN H. SNIFFEN	X		
WARREN K. MAMIZUKA	X		

The minutes of the Public Hearing and Regular Meeting held on April 24, 2023, are respectfully submitted,



 JOY CRUZ-ACHIU

APPROVED:



 BRYAN P. ANDAYA
 Chair of the Board
 MAY 22 2023

 Date