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

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

April 21, 2026

NOTICE

The Board of Water Supply, City and County of Honolulu, Regular Meeting will be held on Monday, April 27, 2026 at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843.

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

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

TESTIMONY

Testimony may be submitted as follows:

- Written testimony should include the submitter's address, email address, and phone number. Testimony should be received by Monday, April 27, 2026, at noon. Submit written testimony by:
  - Email to board@hbws.org
  - Online at boardofwatersupply.com/testimony
  - Mail to Board of Water Supply, 630 South Beretania Street, Honolulu, HI 96843
  - Fax to (808) 748-5079
- Oral testimony will be accepted remotely and in person during the meeting. Pre-registration is encouraged to facilitate as much remote and in-person testimony as reasonably possible during the time allotted. Testifiers should also consider submitting a written version of their oral testimony.
  - To testify remotely by phone or video using the Zoom videoconferencing platform, please submit your request by:
    - Email to board@hbws.org
    - Online at boardofwatersupply.com/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 24, 2026, at noon.
  - To testify in person at the Board of Water Supply, Public Service Building, 630 South Beretania Street, Honolulu, HI 96843, please pre-register by submitting your request by Monday, April 27, 2026:
    - Email to board@hbws.org
    - Online at boardofwatersupply.com/testimony

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

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

MATERIALS AVAILABLE FOR INSPECTION

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

VIEWING THE MEETING

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

SPECIAL REQUESTS AND ACCOMMODATIONS

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

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

The agenda for April 27, 2026, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Regular Meeting Held on February 23, 2026

2. Adoption of Resolution No. 1010, 2026, Providing for the Acquisition by Eminent Domain of a Portion of Lot 2 of the Nahalekeha Subdivision, Situate at Kaonohi, Kalauao, ʻEwa, Oʻahu, Hawaiʻi, Tax Map Key 9-8-011:056 (Portion)

3. Adoption of Resolution No. 1011, 2026, Acceptance of Gift to the Board of Water Supply from City Mill for Detect-A-Leak Week

4. Adoption of Resolution No. 1012, 2026, Acceptance of Gift to the Board of Water Supply from the Hawaiʻi Executive Collaborative to Attend the Rediscovering Hawaiʻi's Soul Konohiki Convening

5. Authorizing a Public Hearing to Consider the Proposed Fiscal Year 2026-2027 Operating and Capital Improvement Program Budget

6. Adoption of the Six-Year Capital Improvement Program for the Period July 1, 2025 to June 30, 2031

ITEMS FOR INFORMATION

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

2. Overview of Metering and Water Service Requirements Under Board of Water Supply Rules and Regulations, and Procedures

3. Briefing on Recent Kona Low Storms' Impacts and Response

4. Status Update of Groundwater Levels at All Index Stations

5. Water Main Repair Report for February and March 2026

If the need arises with respect to any item on this agenda, Hawaiʻi Revised Statutes Sections 92-5(a)(4), the Board may consult with its attorneys in executive session on questions and issues pertaining to the Board's powers, duties, privileges, immunities, and/or liabilities relating to that item.

EXECUTIVE SESSION

The Board anticipates convening into Executive Session Pursuant to Hawai'i Revised Statutes Section 92-4 and 92-5 (a)(4) to Consult in a Closed Meeting with the Board's Attorney on Questions and Issues Pertaining to Claims and Other Matters on the Board's Powers, Duties, Privileges, Immunities, and/or Liabilities.

1. Approval of the Minutes of the Executive Session Held on February 23, 2026

MINUTES

To watch the recording of this meeting, please click on the following link: https://vimeo.com/bwshonolulu/april-27-2026. Closed captioning is available.

THE REGULAR MEETING OF THE
BOARD OF WATER SUPPLY

April 27, 2026

At 2:09 PM on April 27, 2026, in the Public Service Building Board Room at 630 South Beretania Street, Honolulu, Hawai'i, Chair Nā'ālehu Anthony called to order the Regular Meeting.

Present:
Nā'ālehu Anthony, Chair via Zoom
Jonathan Kaneshiro, Vice Chair
Lance Wilhelm, Board Member
Jeffrey Laupola, Board Member
Darian Chun, Board Member
Gene Albano, Ex-Officio via Zoom

Also Present:
Ernest Lau, Manager and Chief Engineer
Erwin Kawata, Deputy Manager
Joyce Le,
Acting Departmental Staff Executive Assistant,
Office of the Manager and Chief Engineer,
Jennifer, Elflein Program Administrator,
Customer Care
Steven Norstrom, Information Specialist II,
Communications Office
Megan Marumatsu, Executive Assistant I,
Executive Support Office via Vimeo
Wayne Tello, Acting Program Administrator,
Field Operations Division
Daniel Lee, Acting Assistant Program Administrator,
Field Operations Division
Jennifer Faler, Program Administrator,
Capital Projects Division
Kaliko Lum Kee, Assistant Waterworks Controller,
Finance Division via Vimeo
Kenrick Wong, Data Processing System Analyst V,
Information Technology Division
Michael Matsuo, Land Administrator, Land Division
Kirk Iwamoto, Water Quality Laboratory Director,
Water Quality Division
Barry Usagawa, Program Administrator,
Water Resources Division
Dominic Dias, Civil Engineer VI,
Water Resources Division
Iris Oda, Civil Engineer V, Water Resources Division

Ashley Membrer, Professional Trainee II,
Water Resources Division
Rhea Quezon, Civil Engineer III,
Water Resources Divsion
Kimberly Kuwaye, Manager's Secretary
Joy Cruz-Achiu, Board Secretary
Stella Bernardo, Information Specialist II,
Communications Office via Zoom
Michele Harman, Community Relations Specialist I,
Communications Office via Zoom
Wayne Maria, Information Specialist II,
Communications Office

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

Absent: Edwin Sniffen, Ex-Officio

Chair Nāʻālehu Anthony opened the Board meeting with an ʻolelo noʻeau:

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

Mahalo nui no kēia ʻākoakoa ʻana o kākou no ka pono o ka lāhui, no ka pono o ka ʻāina, a no ka pono o ka wai nō hoʻi. Eia he manaʻo mai ka wahine e kakau ka puke ʻōlelo noʻeau e kālele ana i ke koʻikoʻi o ka wai a me ka ʻaina kekahi.

Chair Anthony translated the ʻolelo noʻeau: Aloha from the rising to the setting sun.
Thank you all for coming together today for the people, the land, and the water. Here is a short Hawaiian Proverb that helps us remember the importance of fresh water and land.

ʻŌlelo: He aliʻi kaʻāina he kauwā ke kanaka.

Chair Anthony translated ʻōlelo: The Land is the Chief and the Man is the Servant. The Land has no need for man, but man needs the land and works it for a livelihood.

Chair Anthony acknowledged and expressed his appreciation to BWS employees who have dedicated years of effort to the organization.

Chair Anthony welcomed everyone to the April 27, 2026, Regular Meeting of the Board of Water Supply (BWS). He stated that the Board of Water Supply is dedicated to providing safe, dependable, and affordable supply of water now and into the future.

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

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

during today's meeting, please use the Zoom chat to send a direct message to our support team. Their names are listed in the message to all participants. To open the chat window, please click the text Bubble icon on the Zoom Toolbar.

Chair Anthony requested a roll call for the Regular Meeting. Joining via Zoom: Board Member Gene Albano responded, "aye." In the Board room, Vice Chair Jonathan Kaneshiro responded aye; Board Member Lance Wilhelm responded "e'o"; Board Member Jeffrey Laupola responded aye; and Board Member Darian Chun responded aye. Chair Nā'ālehu Anthony was also present in the Board room. Board Member Edwin Sniffen was absent.

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

REGULAR MEETING

APPROVAL OF MINUTES

Approval of the Minutes of the Regular Meeting Held February 23, 2026.

MOTION TO APPROVE

Lance Wilhelm and Jonathan Kaneshiro motioned and seconded, respectively, to approve the Minutes of the Regular Meeting Held on February 23, 2026

In lieu of a roll call vote, Chair Anthony 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 Anthony then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Board Member Darian Chun abstained from voting. Chair Anthony announced that the motion was unanimously carried.

THE MINUTES OF THE REGULAR MEETING HELD ON FEBRUARY 23, 2026, WERE APPROVED AT THE APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN			ABSTAIN
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

"April 27, 2026

ADOPTION OF RESOLUTION NO. 1010, 2026, PROVIDING FOR THE ACQUISITION BY EMINENT DOMAIN OF A PORTION OF SUBDIVISION LOT 2 OF NAHALEKEHA SUBDISVISION, SITUATE AT KAONOHI, KALALUAO, 'EWA, O'AHU, HAWAI'I, TAX MAP KEY 9-8-011-:056 (PORTION)

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

Chair and Members:

Subject: Adoption of Resolution No. 1010, 2026, Providing for the Acquisition by Eminent Domain of a Portion of Lot 2 of Nahalekeha Subdivision, Situate at Kaonohi, Kalauao, 'Ewa, O'ahu, Hawai'i, Tax Map Key 9-8-011:056 (Portion)

We recommend the adoption of Resolution No. 1010, 2026, authorizing proceedings in eminent domain to be initiated for the acquisition of a portion of Lot 2 of the Nahalekeha Subdivision.

The Nahalekeha Subdivision is a gated residential community located at the end of 'Ōnikiniki Street above Pearlridge and is comprised of two lots. Lot 1 is the residential portion, and Lot 2, which surrounds the Board of Water Supply ("BWS") Kaonohi 850' Reservoir, is undeveloped except for a small portion that is being used as a recreation center. We wish to acquire a 2.484-acre portion of Lot 2 to develop a new water source to help replace capacity lost from the 'Aiea and Hālawa wells which were shut down due to potential contamination from leakage from the Red Hill Bulk Fuel Storage Facility.

This resolution was introduced at the February 23, 2026, meeting and was subsequently published in the *Honolulu Star Advertiser* on March 16, 2026, as required by law.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Michael Matsuo, Land Administrator, Land Division, gave the report.

Chair Anthony asked about the quantity of water from the well.

Mr. Matsuo replied that he was not sure, but the well might produce 1 million gallons of water per day or more.

Manager Ernest Lau added that getting that much water is possible. After drilling the exploratory well, the BWS will pump-test it to determine its capacity.

Chair Anthony mentioned that the advantage of elevation is also a factor.

Manager Lau commented that the idea is to find a location far from the Red Hill underground fuel storage tanks and any migrating plumes. BWS-owned sites in Aiea and Hālawa were considered, and an exploratory well will be built at the Newtown 550 Reservoir, located in the lower part of Aiea. The well mentioned in the resolution is at the top of the hill.

Mr. Matsuo commented that the lower-elevation areas are well developed, making it difficult to find well sites.

Chair Anthony inquired if there was currently any pumping occurring at the new well location or just storage.

Manager Lau confirmed that there is no pumping, just water storage.

Vice Chair Jonathan Kaneshiro asked whether there had been any material conversations with the attorney or the association since the last meeting.

Mr. Matsuo stated that there were no conversations with the association or its attorney. The association was notified that the resolution would be presented to the Board for adoption today, and that he offered them the opportunity to provide testimony. Mr. Matsuo shared that the association is holding off on communicating with BWS while awaiting a response regarding the appraisal conducted. Because of this, Mr. Matsuo believes we will have to negotiate a final sales price.

MOTION TO APPROVE

Lance Wilhelm and Jonathan Kaneshiro motioned and seconded, respectively, the Adoption of Resolution No. 1010, 2026, Providing for the Acquisition by Eminent Domain of a Portion of Lot 2 of the Nahalekeha Subdivision, Situate at Kaonohi, Kalauao, ʻEwa, Oʻahu, Hawaiʻi, Tax Map Key 9-8-011:056 (Portion).

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Jonathan Kaneshiro, aye; Board Member Lance Wilhelm, aye; Board Member Jeffrey Laupola, aye; Board Member Darian Chun, aye; Board Member Gene Albano, aye; and Chair Nāʻālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with six ayes. Board Member Edwin Sniffen was absent.

ADOPTION OF RESOLUTION NO. 1010, 2026, PROVIDING FOR THE ACQUISITION BY EMINENT DOMAIN OF A PORTION OF LOT 2 OF THE NAHALEKEHA SUBDIVISION, SITUATE AT KAONOHI, KALAUAO, 'EWA, O'AHU, HAWAI'I, TAX MAP KEY 9-8-011:056 (PORTION) WAS ADOPTED AT THE APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 1010, 2026

PROVIDING FOR THE ACQUISITION BY EMINENT DOMAIN OF A PORTION OF LOT 2 OF THE NAHALEKEHA SUBDIVISION SITUATE AT KAONOHI, KALAUAO, 'EWA, O'AHU, HAWAI'I TAX MAP KEY: 9-8-011:056 (PORTION)

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

I.

That for public use and purposes, to-wit, the development and use of a new water source to replace existing water sources in 'Aiea and Hālawa that were shut down due to possible contamination from leakage from the Red Hill Bulk Fuel Storage Facility, proceedings in eminent domain as provided by the law be instituted for the acquisition of the subject real property described in the attached Exhibit "A" and shown on the attached Exhibit "B," which by this reference, both exhibits are incorporated herein and made a part hereof.

The acquisition of the foregoing real property by eminent domain is deemed necessary for the aforesaid public use and purposes.

II.

That the Corporation Counsel of the City and County of Honolulu, or such litigation counsel as the Board of Water Supply may employ pursuant to Section 7-116 of the Revised Charter of the City and County of Honolulu 1973 (Amended 2017 Edition), shall be and is hereby authorized and empowered to institute and carry out said proceedings in the name and on behalf of the Board of Water Supply and the City and County of Honolulu. The Corporation Counsel or such litigation counsel shall be and is hereby further authorized and empowered to

EXHIBIT "A"

Being a portion of that certain parcel of land, being a portion of Royal Patent 1963, Land Commission Award 5524, Apana 6 to L. Konia, situate at Kaonohi, Kalauao, 'Ewa, O'ahu, Hawai'i, and more particularly described as follows:

Lot 2, area of 2.833 acres, more or less, as shown on File Plan No. 1892 filed in the Bureau of Conveyances of the State of Hawai'i ("Bureau"). The area of Lot 2 reflects the exclusion therefrom of Exclusion No. 1, area of 0.403 acres, as shown on File Plan No. 1982, being also Lot 235 of the KAONOHI RIDGE SUBDIVISION UNIT 2-B, as shown on File Plan No. 1091, filed in the Bureau.

The portion of Lot 2 to be acquired by eminent domain has an area of approximately 2.484 acres and is the area bounded by the red dashed lines.

"April 27, 2026

ADOPTION OF RESOLUTION NO. 1011, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM CITY MILL FOR DETECT-A-LEAK WEEK

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

Chair and Members:

Subject: Adoption of Resolution No. 1011, 2026, Acceptance of Gifts to the Board of Water Supply from City Mill For Detect-A-Leak Week

We recommend acceptance of the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from City Mill Hawai'i, consisting of 5,000 toilet leak detection dye tablets valued at over $840.00, in support of the BWS's annual Detect-A-Leak Week campaign.

Detect-A-Leak Week will be observed from April 12 through April 18, 2026. The goal of the campaign is to remind customers to detect and repair property leaks, emphasizing the importance of replacing older, inefficient toilets with WaterSense labeled models (1.28 gallons per flush or less). Toilets are among the sneakiest water wasters, often leaking silently and continuously. A worn or aging flapper is often the culprit, as it can deteriorate over time. Customers are encouraged to check toilet flappers regularly and replace them about every five years.

During Detect-A-Leak Week, the public can pick up toilet leak detection dye tablets at any City Mill store on O'ahu, Satellite City Hall, or the BWS Public Service Building lobby at 630 South Beretania St. Tablets will also be available at our Detect-A-Leak Week events:

- Saturday, April 11, 2026 – Town Center of Mililani, Noon to 2:00 PM
- Saturday, April 18, 2026 – Kahala Mall, 11:00 AM to 1:00 PM

We greatly appreciate the continued participation and commitment of our community partners and customers who support this worthwhile program.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Steven Norstrom, Information Specialist II, Communications Office, gave the report.

Chair Anthony asked if the partnership with City Mill has been ongoing.

Mr. Steven Norstrom responded that City Mill has partnered with the BWS for Detect-a-Leak-Week (DALW) for many years. However, in 2020, the BWS partnered with Hardware Hawaii for DALW. In 2026, City Mill partnered with BWS again for DALW.

MOTION TO APPROVE

Lance Wilhelm and Jonathan Kaneshiro motioned and seconded, respectively, to Adopt Resolution No. 1010, 2026, Acceptance of Gifts to the Board of Water Supply from City Mill for Detect-A-Leak Week

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Jonathan Kaneshiro, aye; Board Member Lance Wilhelm, aye; Board Member Jeffrey Laupola, aye; Board Member Darian Chun, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with five ayes and one abstention. Board Member Edwin Sniffen was absent.

ADOPTION OF RESOLUTION NO. 1011, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM CITY MILL FOR DETECT-A-LEAK WEEK WAS ADOPTED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 1011, 2026

ACCEPTANCE OF GIFT FROM CITY MILL HAWAI'I IN SUPPORT OF THE ANNUAL DETECT-A-LEAK WEEK CAMPAIGN

WHEREAS, the Board of Water Supply (BWS), City and County of Honolulu, promotes water conservation through community education and outreach to protect O'ahu's water resources for current and future generations; and

WHEREAS, timely property leak detection and repair is one of the most practical ways to conserve water by reducing unnecessary water loss, which results in long-term savings on water bills; and

WHEREAS, one of the most common property leaks is a leaky toilet, often resulting from a worn or deteriorating flush valve (flapper) that may go unnoticed and waste thousands of gallons of water each year; and

WHEREAS, the BWS will focus public attention on detecting and repairing toilet leaks through its annual Detect-A-Leak Week campaign, observed this year from Sunday, April 12, through Saturday, April 18; and

WHEREAS, in support of Detect-A-Leak Week, City Mill Hawai'i has partnered with the BWS and generously donated 5,000 toilet leak detection dye tablets valued at more than $840.00 to encourage water users to regularly check and repair leaks, especially in toilets; and

WHEREAS, the BWS may accept gifts to the Department provided that such acceptance does not provide special consideration, treatment, advantage, privilege, or exemption to a donor, and does not coerce a potential donor; and

BE IT RESOLVED that the BWS hereby accepts the gift valued at more than $840.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank City Mill Hawai'i for this gift.

ADOPTED

NĀ'ĀLEHU ANTHONY
Chair

Honolulu, Hawai'i
April 27, 2026

ADOPTION OF RESOLUTION NO. 1011, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM CITY MILL FOR DETECT-A-LEAK WEEK WAS ADOPTED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

"April 27, 2026

ADOPTION OF RESOLUTION NO. 1012, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM HAWAI'I EXECUTIVE COLLABORATIVE TO ATTEND THE REDISCOVERING HAWAI'I'S SOUL KONOHIKI CONVENING

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

Chair and Members:

Subject: Adoption of Resolution No. 1012, 2026, Acceptance of Gifts to the Board of Water Supply from Hawai'i Executive Collaborative to Attend the Rediscoving Hawai'i's Soul Konohiki Convening

We recommend the adoption of the attached Resolution No.1012, 2026, that accepts the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from the Hawai'i Executive Collaboration to have the Manager and Chief Engineer attend the RHS Konohiki Convening held May 20-22, 2026 at the Four Seasons Resort O'ahu at Ko Olina. The total value is estimated to be at $1000.00, for registration and lodging costs.

The convening is hosted by the Rediscovering Hawai'i's Soul (RHS) initiative. The purpose of the two day convening is to activate the pathway toward a statewide konohiki system.

Hawai'i's Soul envisions a future where 'āina, and the people thrive together. This convening marks the first step in a longer journey bringing together community-recognized konohiki and aligned community, civic, and business leader to begin shaping the pathways toward the future.

Those invited to this gathering are not simply participants, but key partners in shaping and implementing the longer-term pathway ahead.

Respectfully Submitted,

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

Attachment"

DISCUSSION:

Ernest Lau, Manager and Chief Engineer, Office of the Manager and Chief Engineer, gave the report.

Board Member Lance Wilhem shared that he has participated in the Hawai'i Executive Collaborative and stated that these meetings bring together business and community leaders to have a dialogue that is not often heard.

Manager Lau commented that it allows individuals two days to get together and have focused discussions with distraction.

Chair Anthony agreed with Board Member Wilhelm that there is a great deal of leadership out there that needs to understand the different aspects to get a full picture of the challenges Hawai'i and the BWS are facing. He commented that the BWS understands and models the konohiki system, to ensure there is enough water year after year.

Manager Lau stated that the BWS is responsible for the entire island of O'ahu, not just for the ahupua'a.

Chair Anthony added thatwe not only need to manage the ahupua'a but also the entire water resource.

Manager Lau also added that based on what is available today, the BWS considers all historical and current approaches.

MOTION TO APPROVE

Jeffrey Laupola and Darian Chun motioned and seconded, respectively, to Adopt Resolution No. 1012, 2026, Acceptance of Gifts to the Board of Water Supply from Hawai'i Executive Collaborative to Attend the Rediscovering Hawai'i's Soul Konohiki Convening.

Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Jonathan Kaneshiro, aye; Board Member Lance Wilhelm, aye; Board Member Jeffrey Laupola, aye; Board Member Darian Chun, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with five ayes and one abstention. Board Member Edwin Sniffen was absent.

ADOPTION OF RESOLUTION NO. 1012, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM HAWAI'I EXECUTIVE COLLABORATIVE TO ATTEND THE REDISCOVERING HAWAI'I'S SOUL KONOHIKI CONVENING WAS ADOPTED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

"April 27, 2026

REDISCOVERING Hawai'i's Soul

hec HAWAI'I EXECUTIVE COLLABORATIVE

Aloha e,

We are honored to invite you to participate in a two-day convening to activate the pathway toward a statewide konohiki system, to be held **May 20-22, 2026 on O'ahu.**

This effort emerges from the broader work of Rediscovering Hawai'i's Soul, where leaders across sectors have been exploring what is required for Hawai'i to thrive—culturally, environmentally, and civically. Through that dialogue, a clear insight surfaced: Hawai'i's well-being depends on kuleana-based leadership, culturally grounded stewardship of 'āina, and strong, trusting communities. The activation of a statewide konohiki system is one pathway flowing directly from that shared realization.

By acknowledging konohiki recognized by their communities, connecting them across ahupua'a, and exploring how their leadership can live alongside existing laws and institutions, we seek to restore balance, renew civic engagement, and ensure the care of culturally and spiritually significant lands.

Ultimately, we envision a future where Hawai'i's Soul, 'āina, and people thrive together. This convening marks the first step in a longer journey—bringing together community-recognized konohiki and aligned community, civic, and business leaders to begin shaping the pathways toward that future.

This gathering is not intended to design or finalize a statewide structure. Rather, it is designed to:

- Ground the work in a shared, historically informed understanding of konohiki and the principles and kānāwai that shaped the system
- Establish open communication among konohiki and cross-sector leaders
- Surface shared values and clarify what constitutes credible, place-based leadership
- Explore a pilot-based pathway within an ahupua'a system framework
- Identify key questions and next steps for continued, thoughtful progress

Your voice and leadership are essential. Those invited to this gathering are not simply participants, but key partners in shaping and implementing the longer-term pathway ahead.

Following the convening, we will synthesize and validate what was heard, confirm the focus of the next phase of work, and launch small, purpose-built working groups to advance pilot design, leadership support, governance integration, and stakeholder alignment. Subsequent convenings will follow to deepen this work.

We recognize that this is serious and generational work. We are committed to moving deliberately, grounded in trust and integrity, and at the speed relationships allow. We hope you will join us for this important beginning.

This convening will be held May 20-22, 2026 at the Four Seasons Resort O'ahu at Ko Olina.

Mahalo nui loa,

Collaborative leaders of Rediscovering Hawai'i's Soul, an initiative of Hawai'i Executive Collaborative
Kamana'opono Crabbe, John De Fries, Corbett Kalama, Duane Kurisu, Jon Osorio, Walter Ritte, Governor John Waihe'e

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

Resolution No. 1012, 2026

Acceptance of Gift to the Board of Water Supply
from the Hawai'i Executive Collaborative to attend
the Rediscovering Hawai'i's Soul (RHS) Konohiki Convening

WHEREAS, Rediscovering Hawai'i's Soul (RHS), an initiative of the Hawai'i Executive Collaborative (HEC) to shape a better future for Hawai'i by integrating Native Hawaiian principles into modern leadership and community decisions, was created to protect, preserve, and perpetuate the "soul" of Hawai'i at a time when growing community divisions threaten it; and

WHEREAS, the RHS is hosting a two-day event to begin work to shape and implement a pathway toward a statewide konohiki system, bringing together community-recognized leaders and other key community stakeholders to plan for the long-term well-being of Hawai'i and its people; and

WHEREAS, the HEC is offering a gift of free attendance valued at $1,000.00 to the BWS Manager and Chief Engineer to attend the RHS Kohohiki Convening from May 20 – 22, 2026, at the Four Seasons Resort O'ahu at Ko Olina; and

WHEREAS, the BWS may accept gifts to the Department as long as it does not provide special consideration, treatment, advantage, privilege, or exemption for or coerces a potential donor; and

WHEREAS, the gift to the BWS is beneficial because it ensures that, as a significant O'ahu stakeholder, the BWS can share knowledge to help guide RHS decisions, build trust with other community leaders, and collaborate with other stakeholders on shared actions in key focus areas; now, therefore

BE IT RESOLVED that the Board of Water Supply hereby accepts the gift valued at $1,000.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank the donor for this gift.

ADOPTED:

NĀ'ĀLEHU ANTHONY
Chair
Honolulu, Hawai'i
April 27, 2026

ADOPTION OF RESOLUTION NO. 1012, 2026, ACCEPTANCE OF GIFTS TO THE BOARD OF WATER SUPPLY FROM HAWAI'I EXECUTIVE COLLABORATIVE TO ATTEND THE REDISCOVERING HAWAI'I'S SOUL KONOHIKI CONVENING WAS ADOPTED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

AUTHORIZING A PUBLIC HEARING TO CONSIDER THE PROPOSED FISCAL YEAR 2026-2027 OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET

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

Chair and Members:

Subject: Authorizing a Public Hearing to Consider the Proposed Fiscal Year 2026-20247 Operating and Capital Improvement Program Budget

We recommend that the Board authorize a public hearing to be held at 2:00 p.m. on Tuesday, May 26, 2026, to consider the resolution to adopt the proposed Operating and Capital Improvement Program Budget for the fiscal year beginning July 1, 2026, and ending June 30, 2027. A Budget Workshop is scheduled on Monday, May 4, 2026, 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: Megan Marumatsu, Executive Assistant I, Executive Support Office, gave the report. There were no comments or discussions.

MOTION TO APPROVE: Darian Chun and Jeffrey Laupola motioned and seconded, respectively, to Authorize a Public Hearing to Consider the Proposed Fiscal Year 2026-2027 Operating and Capital Improvement Program Budget.

In lieu of a roll call vote, Chair Anthony 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 Anthony then inquired if any Board Members would like to object or vote "Nay" on the motion. There were no objections or "Nay" votes. Chair Anthony announced that the motion was unanimously carried.

AUTHORIZING A PUBLIC HEARING TO CONSIDER THE PROPOSED FISCAL YEAR 2026-2027 OPERATING AND CAPITAL IMPROVEMENT PROGRAM BUDGET WAS AUTHORIZED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀʻĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	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 Tuesday, May 26, 2026, 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) 2027 Operating and Capital Improvement Program Budget of the Board of Water Supply, beginning July 1, 2026, and ending June 30, 2027.

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 Tuesday, May 26, 2026, 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, May 22, 2026, 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 Tuesday, May 26, 2026:
  - Email to board@hbws.org
  - Online at boardofwatersupply.com/testimony

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

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

MATERIALS AVAILABLE FOR INSPECTION

Meeting materials ("board packet" under HRS 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: boardofwatersupply.com/boardmeetings. Video will appear on screen. You may have to click the arrow on video to start it. You may have to unmute audio as muted audio tends to be the default setting.

SPECIAL REQUESTS AND ACCOMMODATIONS

If you require special assistance, an auxiliary aid or service, and/or an accommodation due to a disability to participate in this meeting (i.e., sign language interpreter; interpreter for language other than English; or wheelchair accessibility), please call (808) 748-5172 or email your request to board@hbws.org **at least three (3) business days prior to the meeting date**. If a response is received after the requested three (3) 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

"April 27, 2026

ADOPTION OF THE SIX-YEAR CAPITAL IMPROVEMENT PROGRAM FOR THE PERIOD JULY 1, 2025 TO JUNE 30, 2031

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

Chair and Members:

Subject: Adoption of the Six-Year Capital Improvement Program for the Period July 1, 2025 to June 30, 2031

We submit and recommend for adoption the proposed Six-Year Capital Improvement Program (CIP) for the fiscal years FY26 to FY31 with the understanding that it may, as needs dictate, be amended, or modified by the Board.

The proposed Six-Year CIP has been reviewed by the City's Department of Planning and Permitting in accordance with the provisions of Section 7-105(d) of the City Charter.

The Six-Year CIP includes projects that address system renewal and replacement and capacity expansion to accommodate planned growth, pipeline, and facility improvements. It improves system capacity and reliability to ensure that we can continue to provide a consistent and high-quality water supply for our customers, while also mitigating system challenges brought on by regulatory developments and unintentional, environmental mishaps.

Staff will present the Six-Year CIP highlights.

Respectfully Submitted,

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

Attachment"

DISCUSSION: Dominic Dias, Civil Engineer VI, Water Resources Division, gave the report.

Board Member Jeffrey Laupola inquired about the Contract Adjustment Account Funded with Special Ex of $5,130,000.

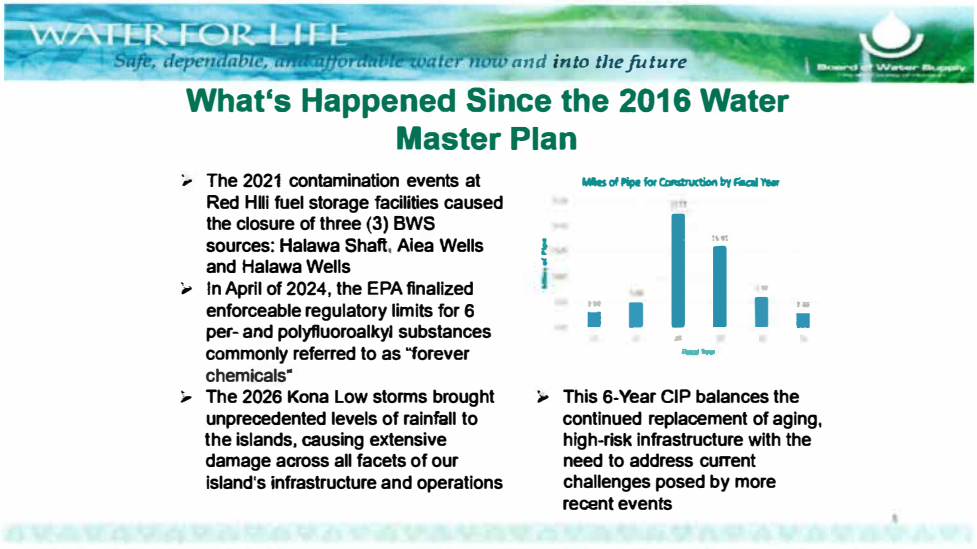
Mr. Dominic Dias explained that the $5,130,000 is the portion of the contract adjustment funded by Special Expendable funds, which come from Water System Facilities charges.

Manager Lau also explained that BWS has an impact fee, a charge for a new customer connecting to the water system using existing capacity, that is paid by others. The BWS impact fee, also known as the Water System Facilities Charge, is comprised of three major components: source

capacity, storage capacity, and transmission pipeline capacity. The Special Expendable Fund is a BWS account used for capacity development projects and is restricted from being used for repair and maintenance projects.

Mr. Dias added that if the BWS anticipates the need for additional funds for a capacity-expansion type project that warrants the BWS putting in contract adjustment monies in the future for that specific project, that portion comes from the Special Expendable Fund and is applied to the applicable project type expansion.

Chair Anthony referred to slide 8 and thanked the framework on the miles of pipeline graph, which indicates where resources, staffing, and money are being applied. He asked whether the 21-mile pipeline goal is an attainable benchmark given the BWS's emerging challenges.



Mr. Dias responded that the 21-mile pipeline benchmark is still applicable if the only goal is to reduce main breaks.

Manager Lau agreed with Mr. Dias, that the goal of replacing 21 miles of pipeline could be reached if it were the only challenge or priority.

Mr. Dias shared that the 21-mile of pipeline goal was included in the last Water Master Plan (WMP) and is the ideal goal. However, the BWS is dealing with per- and polyfluoralkyl substances (PFAS), which pose significant challenges and require immediate attention. Therefore, to achieve balance, the BWS is working on an updated WMP to establish new metrics to measure success across all findings from current investigations and studies.

Manager Lau commented that the average total miles of pipeline noted in the graph on slide eight is approximately 10 miles per year. The BWS is making headway toward its goal without increasing the annual miles of pipeline.

Mr. Dias stated that aligning project execution to replace miles of pipelines may fluctuate from year to year; however, 21 miles would be possible if the only focus were pipeline replacement.

Chair Anthony commented that he is very curious to see the updated WMP, which includes the BWS's goals, unforeseen and unpredictable situations, and project projections, while still meeting the charter.

Manager Lau responded that BWS is a utility and that its service capacity supports the economy, including affordable housing and transit-oriented developments, while ensuring adequate capacity is available to meet day-to-day needs. The need to reduce main breaks is among the many factors the BWS must consider and address.

Mr. Barry Usagawa shared that when the 2016 WMP was released, the set goal was not to exceed 300 main breaks. However, since 2016, the Field Operations Division has expanded its leak detection and repair program; therefore, it is necessary to re-evaluate the performance metric Mr. Dias mentioned. He explained that the BWS has improved with the use of the asset risk tool; therefore, if the BWS can identify and address the highest-risk pipelines and proactively repair leaks, it can minimize emergency main breaks. The construction cost for pipeline replacement has more than doubled, making it challenging to reach its goal of 21 miles of pipeline replacement. Mr. Usagawa commented that revisiting the metrics and exploring other efficient ways to provide flowing water may help keep costs down.

Chair Anthony agreed with Manager Lau and Mr. Usagawa. He commented that it would be interesting to see how the new metrics balance with the most recent rate increase, the need for more wells, the higher construction costs, and new developments, while still ensuring that the BWS meets the requirements and future needs.

Manager Lau stated that the Board of Directors will have the opportunity to provide input and weigh in on the WMP, which includes the metrics.

Board Member Lance Wilhelm commented that, as part of the Board of Directors, the members also play a role in the WMP process and can help articulate the focus areas that are just as important and may affect water. Understanding the different views and the timelines could be very helpful.

Manager Lau stated that the BWS continues to work through various challenges, with the Board's helpful input in finding solutions.

Board Member Wilhem mentioned the six-year CIP, which indicates the BWS's spending, which ranges from $250 to $280 million (M). He asked how accurate is CIP compared to how much is spent.

Manager Lau replied that BWS aims to complete projects totaling that amount. However, project delivery is where the BWS sometimes faces

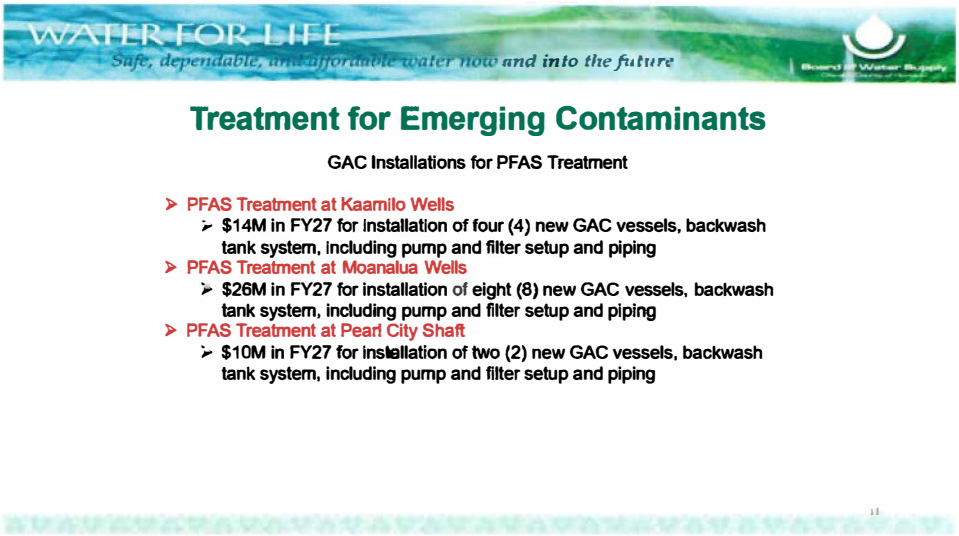
challenges, where the contractor and the BWS come together as a team to complete a project on time and budget. The six-year CIP is a timeline for completing projects.

Board Member Wilhelm commented that the six-year CIP is not being executed at the same pace; therefore, it is creating a backlog.

Manager Lau agreed with Board Member Wilhelm. He commented that the backlog puts pressure on the BWS to find project delivery solutions as it works to become more efficient.

Chair Anthony referred to slide 11 and asked whether the cost for each of the three wells that need to be treated for PFAS is the total cost for each well.

Mr. Dias responded that the costs noted at the three different locations are the most current construction costs provided by the engineers.



Chair Anthony asked whether Operating and Maintenance (O&M) are from a different budget account.

Manager Lau replied that BWS already has a contract with an engineering consultant firm working on the design.

Mr. Dias added that once the treatment facility is constructed the O&M falls into the operating budget.

Chair Anthony still referring to slide 11, expressed concern about how important it is to understand the scale and scope of the problem is with the BWS not production reduced by 18 to 20 millions of gallons a day (MGD), while the Navy is installing two large facilities that cost $500M to build. He emphasized the importance of keeping a watchful eye on what may lie ahead.

Mr. Dias agreed with Chair Anthony and responded that the BWS has several programmatic efforts studying PFAS to help identify future risks to other sources. He mentioned the Kaamilo Wells, Moanalua Wells, and Pearl City Shaft will soon need treatment. Understanding the next level of sources based on available research and data that could be subject to PFAS impacts, the WMP, historical data trends for all sources, where the BWS need to look to provide additional source capacity, and costs are all important.

Chair Anthony stated that his comments and questions are not complaints; the whole country is dealing with municipalities and the same issues of finding solutions that meet new guidelines. He commented that the 2021 PFAS spill, the 2022 Aqueous Film Forming Foam (AFFF) spill, the unknowns, and what is known all impact how the BWS proceeds.

Manager Lau shared that there are over 12,000 different PFAS chemicals; however, the Environmental Protection Agency (EPA) only examined the first six. As they look into future regulations, the BWS may be required to add more treatment facilities, which will pose continuous ongoing challenges and changes.

Chair Anthony commented that the threshold of four parts per trillion (ppt) is extremely low.

Chair Anthony thanked the team for preparing the six-year CIP plan.

MOTION TO APPROVE

Jonathan Kaneshiro and Jeffrey Laupola motioned and seconded, respectively, the Adoption of the Six-Year Capital Improvement Program for the Period of July 1, 2025 to June 30, 2031.

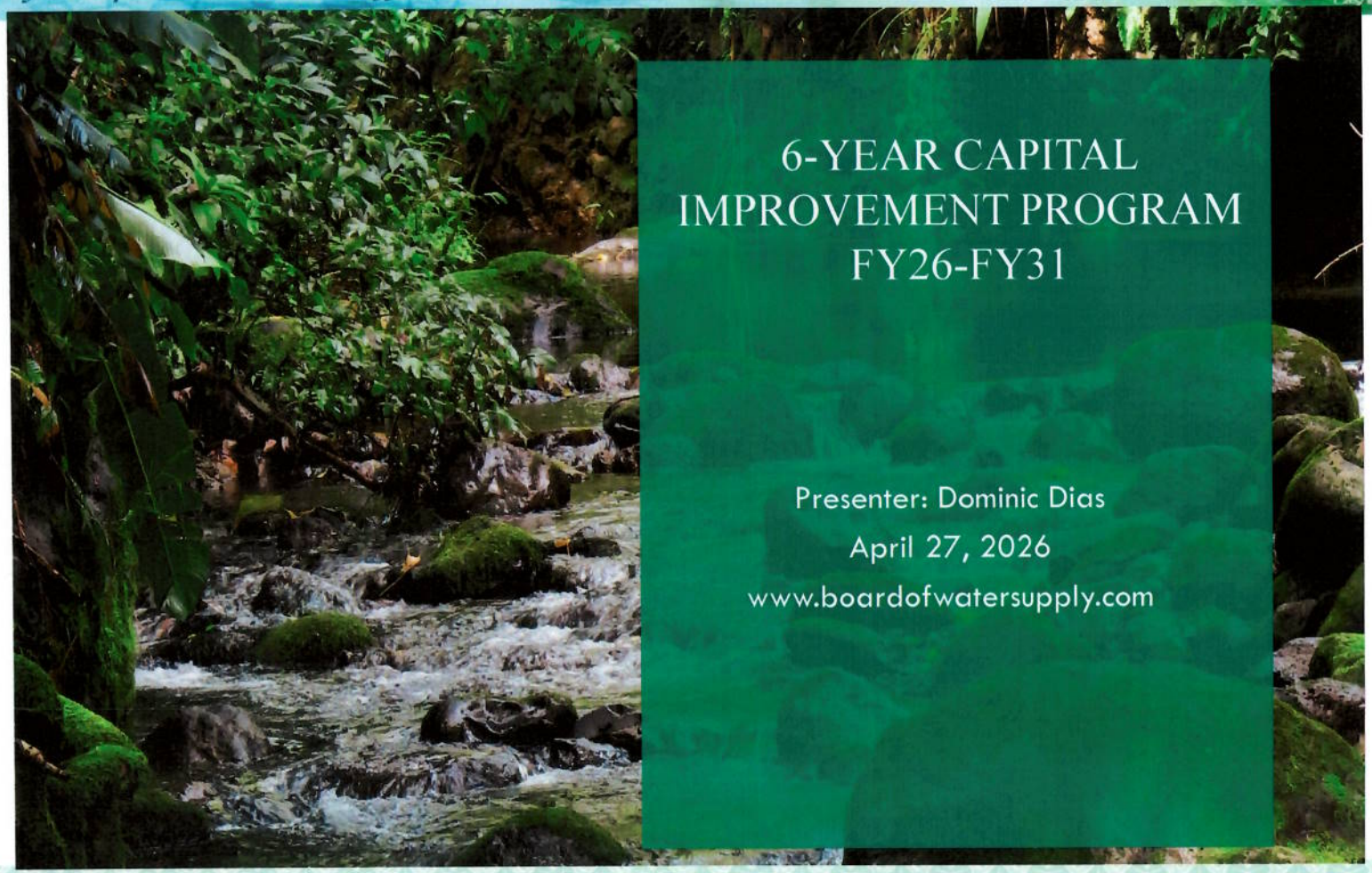
Ms. Cruz-Achiu conducted a roll call vote: Vice Chair Jonathan Kaneshiro, aye; Board Member Lance Wilhelm, aye; Board Member Jeffrey Laupola, aye; Board Member Darian Chun, aye; Board Member Gene Albano, aye; and Chair Nā'ālehu Anthony, aye. Ms. Cruz-Achiu announced that the motion passed with six ayes. Board Member Edwin Sniffen was absent.

ADOPTION OF THE SIX-YEAR CAPITAL IMPROVEMENT PROGRAM FOR THE PERIOD OF JULY 1, 2026 TO JUNE 30, 2026 WAS ADOPTED ON APRIL 27, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀ'ĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSENT
GENE C. ALBANO	X		

WATER FOR LIFE

Safe, dependable, and affordable water now and into the future

Board of Water Supply
City and County of Honolulu



6-YEAR CAPITAL IMPROVEMENT PROGRAM FY26-FY31

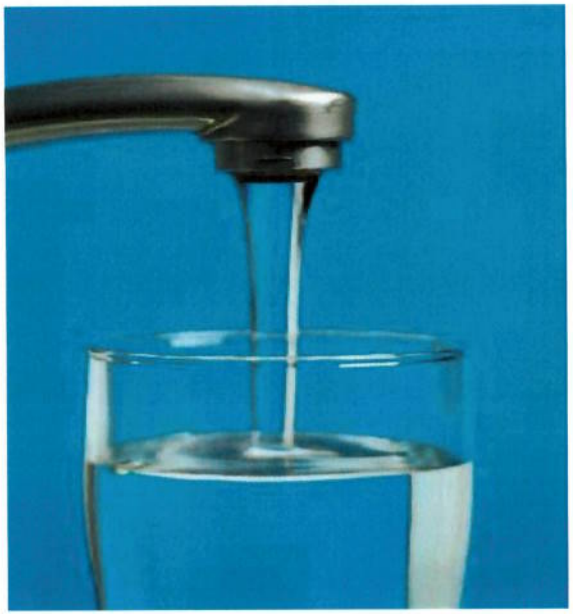
Presenter: Dominic Dias

April 27, 2026

www.boardofwatersupply.com

Capital Improvement Program Presentation

- City Charter Requirement
- CIP Basis
- CIP Project Highlights
- Next Steps

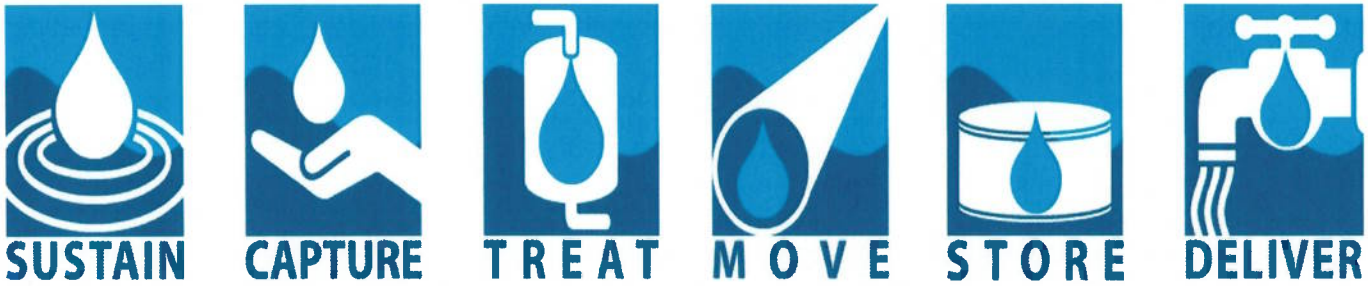


Revised Charter of Honolulu

Section 7-105 (d), Powers, Duties & Functions of the BWS:

The Board of Water Supply shall:

"Determine the policy for construction, additions, extensions and improvements to the water systems of the city which shall include a long-range capital improvement program covering a period of at least six years which shall be adopted after consultation with the director of planning and permitting and which may be amended or modified by the board from time to time."



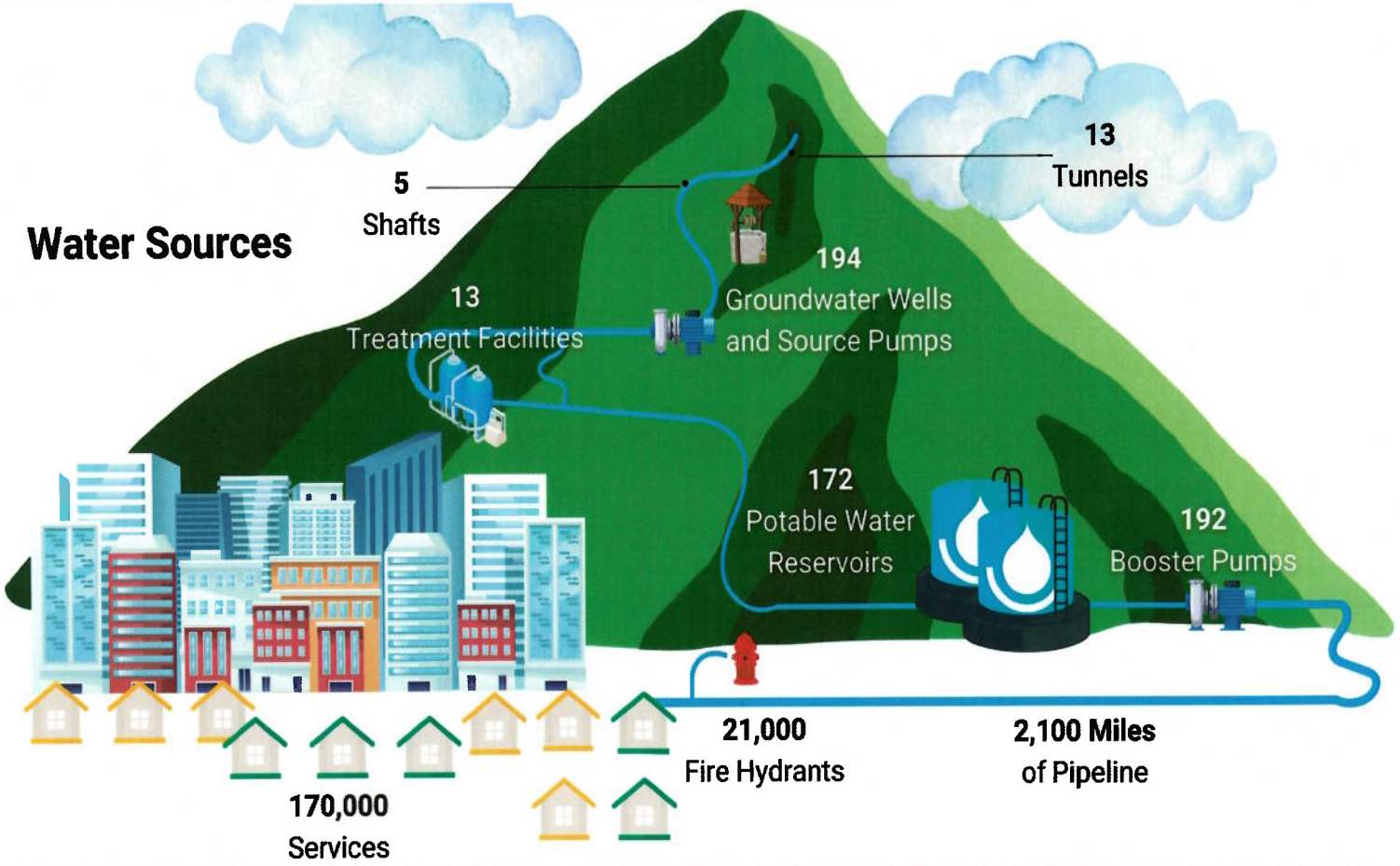
- The 6-Year Capital Improvement Program targets the organizational needs required to continue to provide safe, dependable and affordable water to it's customers while planning for future growth and challenges

WATER FOR LIFE

Safe, dependable, and affordable water now and into the future

Board of Water Supply
City and County of Honolulu

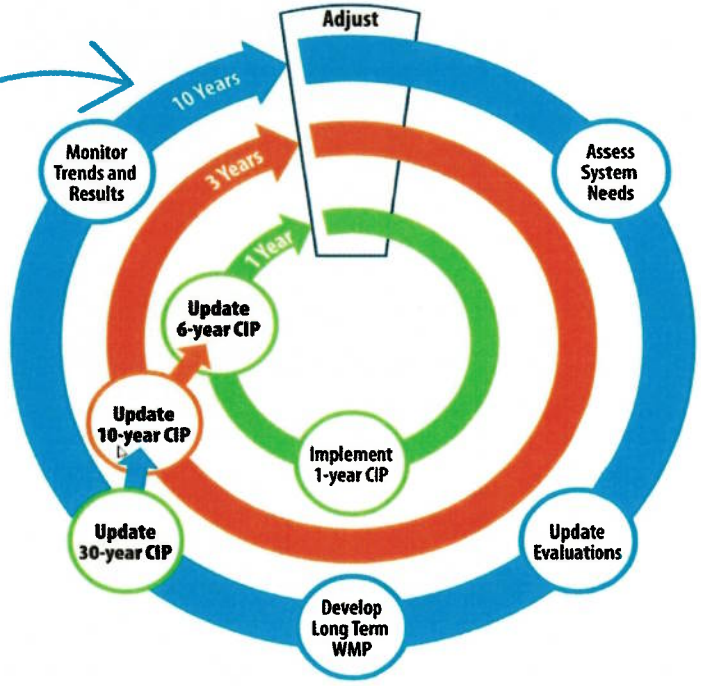
Water Sources



Planning Efforts

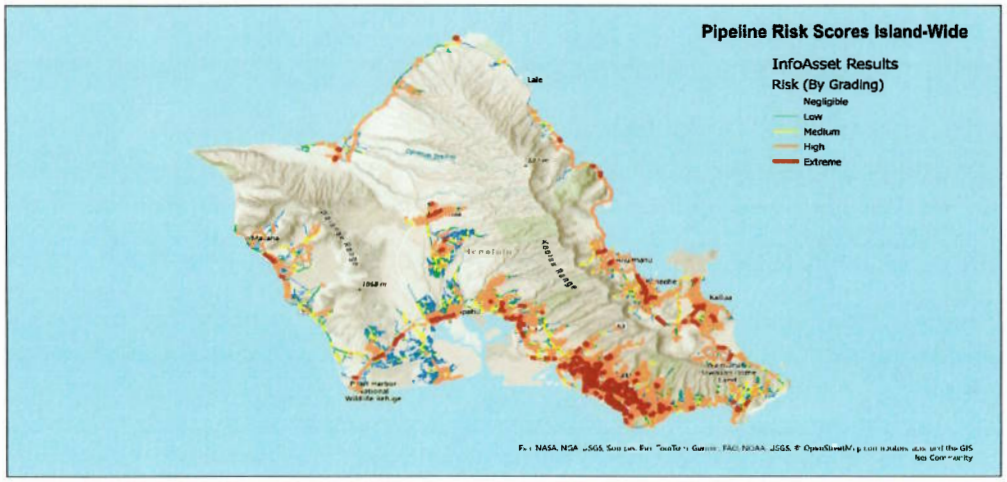
NOW, IT'S TIME FOR AN UPDATE

The original Water Master Plan was completed in 2016



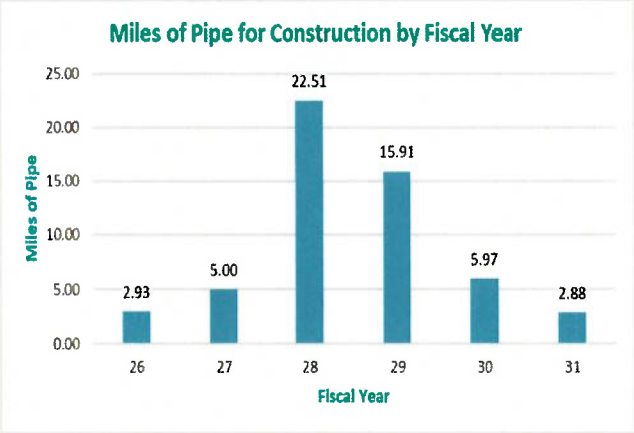
2016 Water Master Plan

- The Capital Improvement Program following the 2016 Water Master Plan focused heavily on replacement of aging infrastructure, specifically high-risk water mains, with the goal of reducing the number of main breaks
- Water main risks were calculated using the InfoAsset risk scoring tool
- The goal was to ramp up to replacing 1% of the mains in the system, or 21 miles of mains annually



What's Happened Since the 2016 Water Master Plan

- The 2021 contamination events at Red Hill fuel storage facilities caused the closure of three (3) BWS sources: Halawa Shaft, Aiea Wells and Halawa Wells
- In April of 2024, the EPA finalized enforceable regulatory limits for 6 per- and polyfluoroalkyl substances commonly referred to as "forever chemicals"
- The 2026 Kona Low storms brought unprecedented levels of rainfall to the islands, causing extensive damage across all facets of our island's infrastructure and operations



- This 6-Year CIP balances the continued replacement of aging, high-risk infrastructure with the need to address current challenges posed by more recent events

New Source Development and Monitoring Related to Red Hill Events

New Source Development

- Exploratory Wells for Red Hill Contamination Response - Kaonohi 850
  - $1.75M in FY27 for Exploratory Well EA, Design and Production EA
- Schofield Plateau Exploratory Wells
  - $550K in FY27 feasibility study to site new exploratory wells
- Exploratory Wells for Red Hill Contamination Response – Waiau 550
  - $4M in FY31 for drilling and testing of exploratory well
- Red Hill Contamination Response Production Wells – Newtown 550
  - $450K in FY26 for Production EA and PIM Amendment
  - $1M in FY31 for plans and specs and engineering report for 1 new production well facility and associated pipeline and appurtenant work
- Red Hill Contamination Response Production Wells – Aiea 497
  - $3M in FY29 for plans and specs and engineering report for production well facility and all associated pipeline and appurtenant work

Monitoring Wells for Red Hill Contamination Response

Monitoring Well Development

- Monitoring Wells for Red Hill Contamination Response
  - $17M in FY26 to drill and case up to five (5) monitoring wells to warn of the presence of an underground plume from the Red Hill fuel contamination
- Monitoring Wells for Red Hill Contamination Response
  - $4M in FY27 to drill and case one (1) monitoring well to warn of the presence of an underground plume from the Red Hill fuel contamination

Treatment for Emerging Contaminants

GAC Installations for PFAS Treatment

- PFAS Treatment at Kaamilo Wells
  - $14M in FY27 for installation of four (4) new GAC vessels, backwash tank system, including pump and filter setup and piping
- PFAS Treatment at Moanalua Wells
  - $26M in FY27 for installation of eight (8) new GAC vessels, backwash tank system, including pump and filter setup and piping
- PFAS Treatment at Pearl City Shaft
  - $10M in FY27 for installation of two (2) new GAC vessels, backwash tank system, including pump and filter setup and piping

Kona Low Storm Impacts

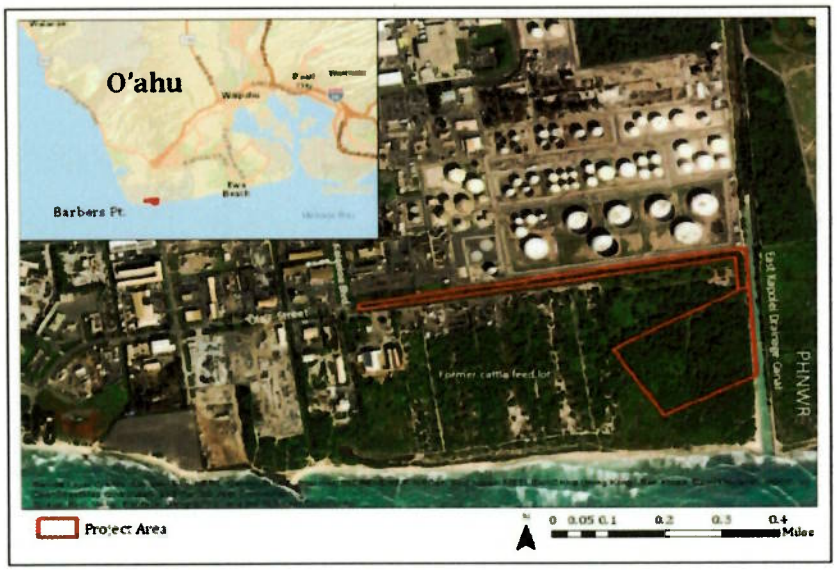
- Kona Low Storm Repairs
  - $2M in FY27 for planning and engineering efforts for repairs to access roads and facilities damaged in the March 2026 Kona Low Storm
  - Preliminary damage assessments potentially in excess of 20M

Additional Source Development

- Transit Oriented Developments, New Aloha Stadium Entertainment District development and City & State affordable housing initiatives propose tens of thouands of potential residential units and commercial spaces across the southern corridor of Oahu
  - New source development projects include:
    - Waikele Gulch Exploratory Well ($7M in FY27 for Drilling and testing two (2) new exploratory wells (additional to one (1) existing; $400K in FY30 for Production EA)
    - Ewa Shaft Well Field ($27M in FY28 for 5 – 2.0 MGD wells, concrete lining of Honouliuli Stream, pump control building, emergency generator and associated pipeline)
    - Waialae Nui Well ($650K in FY28 for design and engineering report for one (1) production well facility)
    - Kunia Wells IV ($6.9M in FY30 for planning and engineering for three (3) 1.5MGD Wells, eight (8) GAC vessels, pump control building and associated pipelines)

Additional Source Development (cont.)

- Kalaeloa Sea Water Desalination Facility ($57M in FY26 and $12M in FY27 for a Design-Build-Operate-Maintain desalination facility and associated pipelines which will produce 1.7 to 2.55 MGD)

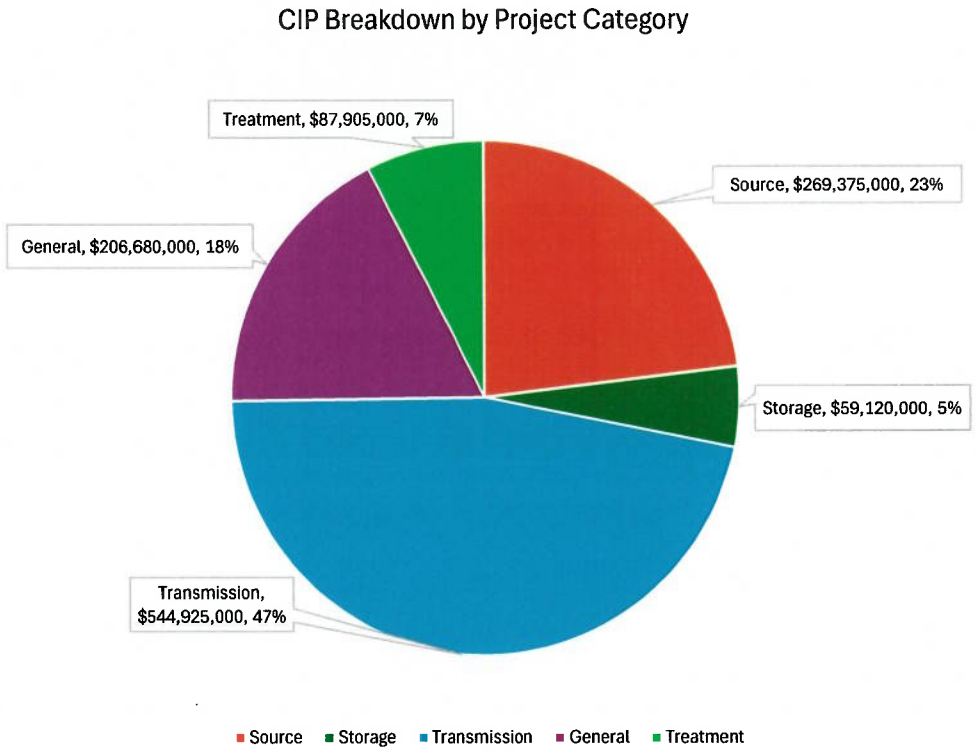


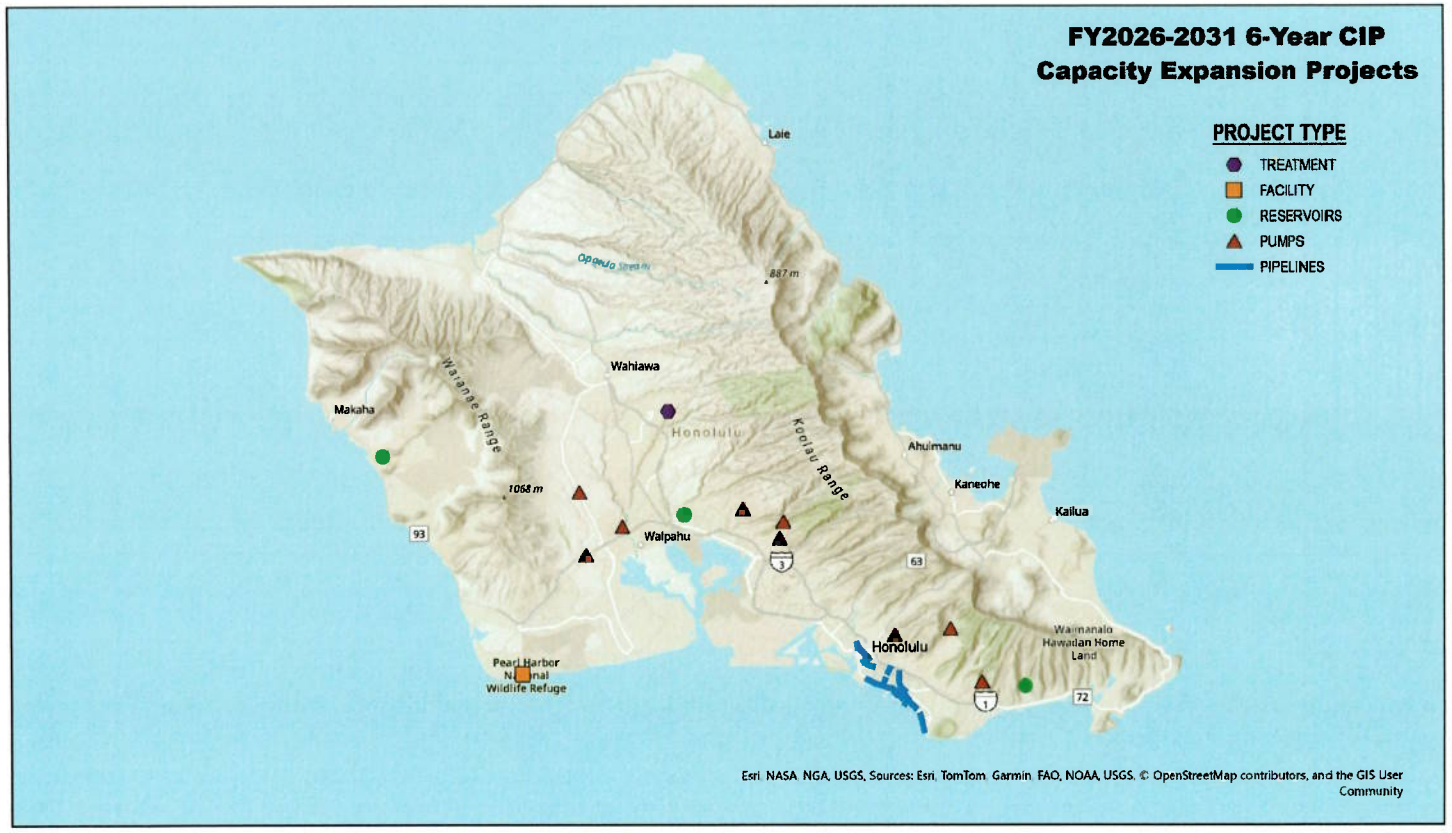
CIP Budget Summary

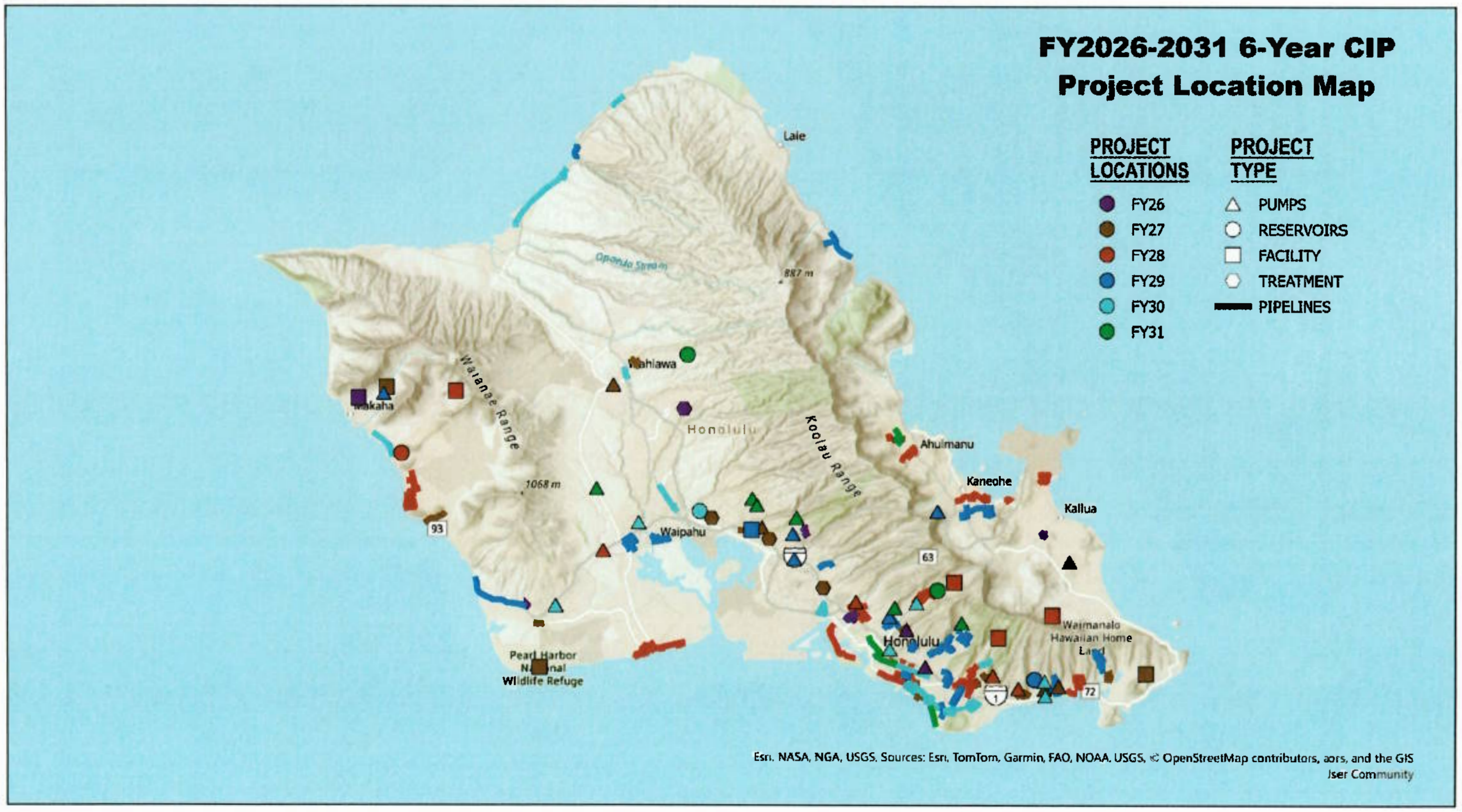
Fund Type	Totals		2026	2027	2028	2029	2030	2031
Operating (Cash)	$482,045		**$51,750**	$97,560	$91,310	$89,760	$84,010	$67,655
SRF	$241,905		**$50,800**	$114,200	$21,000	$19,500	$23,300	$13,105
Special Ex	$107,905		**$7,035**	$12,000	$27,000	$9,050	$8,500	$44,320
Improvement (Revenue Bond)	$277,950		**$22,500**	$0	$89,725	$67,465	$37,260	$61,000
ARPA FRF	$0		**$0**	$0	$0	$0	$0	$0
WIFIA	$57,000		**$57,000**	$0	$0	$0	$0	$0
Grants	$0		**$0**	$0	$0	$0	$0	$0
Extramural	$2,000		**$2,000**	$0	$0	$0	$0	$0
Inflation Adjustment % (Added to Totals)			0%	0%	0%	0%	0%	0%
Total (Special Ex/ARPA FRF/Grants/Extramural)	$109,905		$9,035	$12,000	$27,000	$9,050	$8,500	$44,320
Total (Excluding Special Ex/ARPA FRF/Grants/Extramural)	$1,058,900		$182,050	$211,760	$202,035	$176,725	$144,570	$141,760
Total	**$1,168,805**		**$191,085**	**$223,760**	**$229,035**	**$185,775**	**$153,070**	**$186,080**
Construction Cost Index Adjustment	$136,931		**$21,183**	$19,085	$31,159	$23,365	$17,890	$24,249
CCIA Funded with Special Ex	*$1,200*		*$0*	*$1,200*	*$0*	*$0*	*$0*	*$0*
Contract Adjustment Account	$155,025		**$71,060**	$23,965	$15,000	$15,000	$15,000	$15,000
CAA Funded with Special Ex	*$5,130*		*$3,880*	*$1,250*	*$0*	*$0*	*$0*	*$0*
FY 2026 - 2031 TOTALS (with Adjustments)	**$1,460,761**		**$283,328**	**$266,810**	**$275,194**	**$224,140**	**$185,960**	**$225,329**
TOTALS (with Adjust & Exclude Special Ex/ARPA FRF/Grants/Extramural)	$1,344,526		$270,413	$252,360	$248,194	$215,090	$177,460	$181,009
Annual Target	$1,200,000		$200,000	$200,000	$200,000	$200,000	$200,000	$200,000
Difference [Annual Target - TOTALS (with Adjust & Exclude Special Ex/ARPA FRF/Grants/Extramural)]	($144,526)		($70,413)	($52,360)	($48,194)	($15,090)	$22,540	$18,991

CIP Budget Summary

Project Type	Amount ($)	% of Total
Source	$269,375,000	23%
Storage	$59,120,000	5%
Transmission	$544,925,000	47%
General	$206,680,000	18%
Treatment	$87,905,000	8%
Total (W/O Adjustments)	$1,168,005,000	100%




FY2026-2031 6-Year CIP
Capacity Expansion Projects
PROJECT TYPE
TREATMENT
FACILITY
RESERVOIRS
PUMPS
PIPELINES
Laie
Wahiawa
Makaha
Waianae Range
Koolau Range
1068 m
887 m
Honolulu
Ahuimanu
Kaneohe
Kailua
Waipahu
Waimanalo Hawaiian Home Land
Pearl Harbor National Wildlife Refuge
93
63
72
Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community


FY2026-2031 6-Year CIP
Project Location Map
PROJECT LOCATIONS
FY26
FY27
FY28
FY29
FY30
FY31
PROJECT TYPE
PUMPS
RESERVOIRS
FACILITY
TREATMENT
PIPELINES
Laie
Wahiawa
Waianae Range
Koolau Range
Honolulu
Makaha
1068 m
Waipahu
Ahuimanu
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Kailua
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Pearl Harbor National Wildlife Refuge
93
63
72
Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

What's Next

- The BWS Water Master Plan is currently being updated and includes work on:
  - Asset Condition Assessments
  - Updating of Water System Facilities Charges
  - Unaccounted-for water analysis and investigation
  - Information Technology strategic development
  - Demand Forecasting
  - Water Source Evaluation
    - Groundwater source evaluations, Updated Water Shortage Plans, At-risk source analysis, additional supply evaluation
  - Water Quality and Regulations
  - Climate Resilience Planning
    - Future climate condition and associated risk and resilience planning
    - HECO storm preparation and response actions have impacted power supply reliability

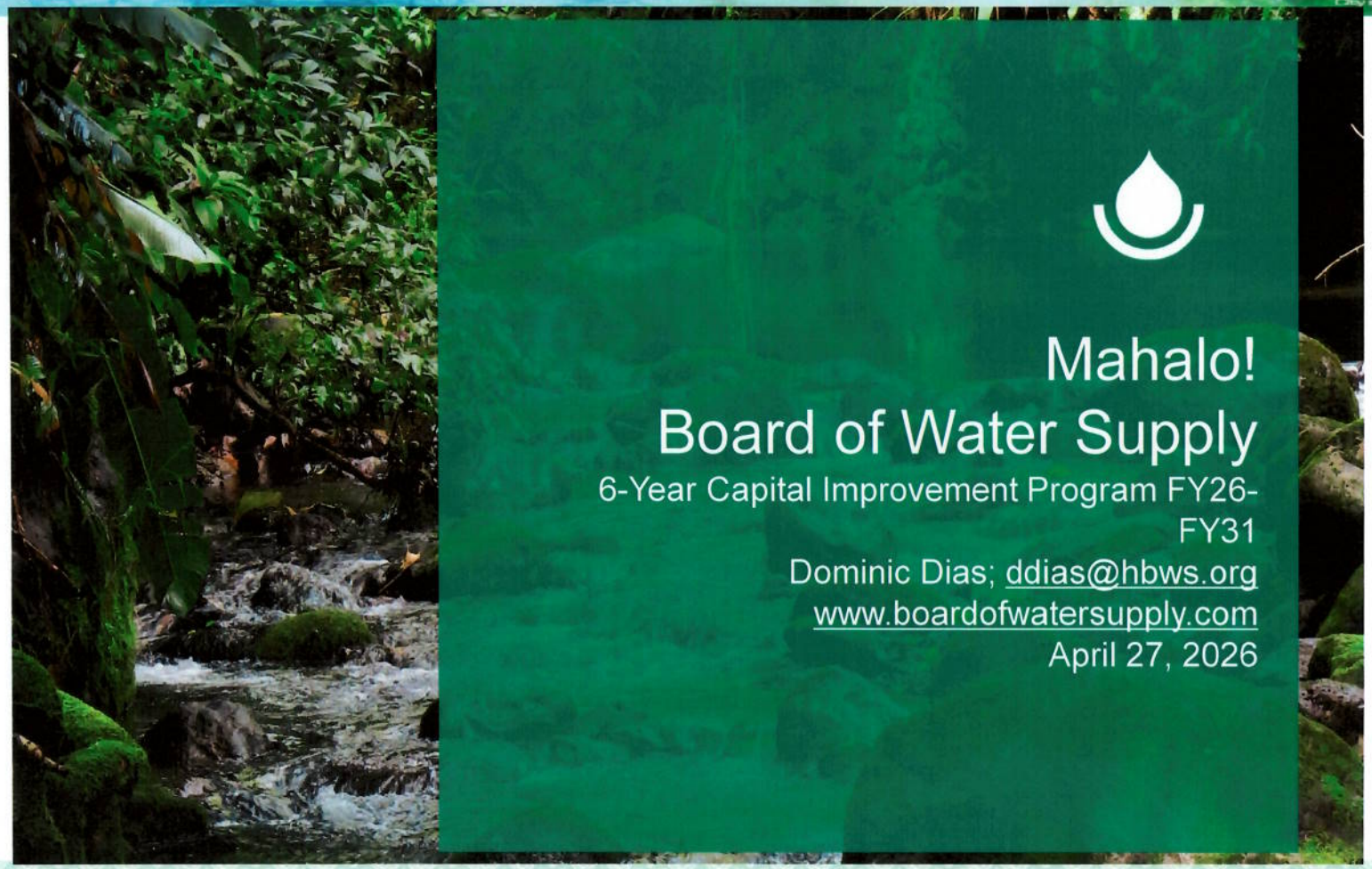
What's Next (cont.)

- Capital Improvement Plan
  - Similar to the last WMP, a 30-year CIP will be developed including updated costing and prioritization methodologies
- Financial Planning
  - Funding Opportunities
  - Financial Plan (Revenue Requirements and Anticipated Rates)

The Water Master Plan update will provide the technical analyses and reviews, project and planning development and financial framework to incorporate the projects from this 6-year CIP that integrate and align with the renewed 30-year Capital Improvement Program strategy.

CIP Budget Summary

Fund Type	Totals		2026	2027	2028	2029	2030	2031
Operating (Cash)	$482,045		**$51,750**	$97,560	$91,310	$89,760	$84,010	$67,655
SRF	$241,905		**$50,800**	$114,200	$21,000	$19,500	$23,300	$13,105
Special Ex	$107,905		**$7,035**	$12,000	$27,000	$9,050	$8,500	$44,320
Improvement (Revenue Bond)	$277,950		**$22,500**	$0	$89,725	$67,465	$37,260	$61,000
ARPA FRF	$0		**$0**	$0	$0	$0	$0	$0
WIFIA	$57,000		**$57,000**	$0	$0	$0	$0	$0
Grants	$0		**$0**	$0	$0	$0	$0	$0
Extramural	$2,000		**$2,000**	$0	$0	$0	$0	$0
Inflation Adjustment % (Added to Totals)			0%	0%	0%	0%	0%	0%
Total (Special Ex/ARPA FRF/Grants/Extramural)	$109,905		$9,035	$12,000	$27,000	$9,050	$8,500	$44,320
Total (Excluding Special Ex/ARPA FRF/Grants/Extramural)	$1,058,900		$182,050	$211,760	$202,035	$176,725	$144,570	$141,760
Total	**$1,168,805**		**$191,085**	**$223,760**	**$229,035**	**$185,775**	**$153,070**	**$186,080**
Construction Cost Index Adjustment	$136,931		**$21,183**	$19,085	$31,159	$23,365	$17,890	$24,249
CCIA Funded with Special Ex	*$1,200*		*$0*	*$1,200*	*$0*	*$0*	*$0*	*$0*
Contract Adjustment Account	$155,025		**$71,060**	$23,965	$15,000	$15,000	$15,000	$15,000
CAA Funded with Special Ex	*$5,130*		*$3,880*	*$1,250*	*$0*	*$0*	*$0*	*$0*
FY 2026 - 2031 TOTALS (with Adjustments)	**$1,460,761**		**$283,328**	**$266,810**	**$275,194**	**$224,140**	**$185,960**	**$225,329**
TOTALS (with Adjust & Exclude Special Ex/ARPA FRF/Grants/Extramural)	$1,344,526		$270,413	$252,360	$248,194	$215,090	$177,460	$181,009
Annual Target	$1,200,000		$200,000	$200,000	$200,000	$200,000	$200,000	$200,000
Difference [Annual Target - TOTALS (with Adjust & Exclude Special Ex/ARPA FRF/Grants/Extramural)]	($144,526)		($70,413)	($52,360)	($48,194)	($15,090)	$22,540	$18,991



Mahalo!

Board of Water Supply

6-Year Capital Improvement Program FY26-FY31

Dominic Dias; ddias@hbws.org
www.boardofwatersupply.com

April 27, 2026

BOARD OF WATER SUPPLY

City and County of Honolulu
Honolulu, Hawai'i

SIX-YEAR CAPITAL IMPROVEMENT PROGRAM

For the Fiscal Years
Beginning July 1, 2025 and
Ending June 30, 2031

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

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FOREWORD

The Six-Year Capital Improvement Program for fiscal years 2026 - 2031, contained herein, represents the projected funding requirements for research and development, renewal and replacement and capacity expansion to adequately meet system needs and the estimated water demand during the program period. Water demand estimates were derived from demographic and community planning data furnished by the Department of Planning and Permitting, City and County of Honolulu.

The level and rate of program execution in subsequent years will depend largely upon the financial capacity of the Board of Water Supply and the extent additional financing is available from various contributory sources.

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CHAIR AND MEMBERS
BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAI'I

In compliance with Section 7-105 (d) of the Revised Charter of the City and County of Honolulu, the following is the Six-Year Capital Improvement Program for the period July 1, 2025 - June 30, 2031.

Submitted by:

Ernest Y. W. Lau, P.E.
Manager and Chief Engineer

APR 27 2026
Date

Approved:

Nā'ālehu Anthony
Chair

APR 27 2026
Date

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BOARD OF WATER SUPPLY
City and County of Honolulu

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Jonathan Kaneshiro, Vice Chair

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Darian Chun

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BOARD OF WATER SUPPLY SIX-YEAR CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS 2026 TO 2031

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BOARD OF WATER SUPPLY SIX-YEAR CAPITAL IMPROVEMENT PROGRAM

FISCAL YEARS 2026 TO 2031

SUMMARY OF COST ESTIMATES

CATEGORY	(FY) TOTAL ($000)	PRIOR APPNS ($000)	FISCAL YEARS (FY) TOTALS ($000) 2026	2027	2028	2029	2030	2031
I. RESEARCH AND DEVELOPMENT	$88,100	$17,630	$23,500	$24,550	$7,750	$8,500	$8,050	$15,750
II. RENEWAL AND REPLACEMENT	$822,915	$273,571	$93,250	$184,810	$185,635	$165,975	$129,220	$64,025
III. CAPACITY EXPANSION	$257,790	$105,298	$74,335	$14,400	$35,650	$11,300	$15,800	$106,305
SUB-TOTAL CATEGORIES I - III	$1,168,805	$396,499	$191,085	$223,760	$229,035	$185,775	$153,070	$186,080
Construction Cost Index Adjustment	$136,931	$105,665	$21,183	$19,085	$31,159	$23,365	$17,890	$24,249
Contract Adjustment Account	$155,025	$227,502	$71,060	$23,965	$15,000	$15,000	$15,000	$15,000
TOTAL CAPITAL IMPROVEMENT PROGRAM BUDGET	$1,460,761	$729,666	$283,328	$266,810	$275,194	$224,140	$185,960	$225,329

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CATEGORY I

RESEARCH AND DEVELOPMENT

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BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
I. RESEARCH AND DEVELOPMENT (R&D)										
1. MONITORING WELLS FOR RED HILL CONTAMINATION RESPONSE...										
Drill and case up to five (5) monitoring wells for use as "sentinel" wells to warn of the presence of an underground fuel plume from the Red Hill fuel contamination.	**Const**	$2,000	--	$2,000	--	--	--	--	--	Additional funding and extramural funding type in FY26 BA#2.
	Const	$15,000	--	$15,000	--	--	--	--	--	Monitoring Well Locations Site F1/Site F2/Site F3 - BWS Hālawa Shaft Site L4 - BWS Hālawa 372' Res Site W - Ala Pu'umalu Park
2. CONSTRUCTION MANAGEMENT FOR VARIOUS BWS CONSTRUCTION PROJECTS										
Provide construction management and training services for selected BWS construction projects	**P&E**	$31,000	$14,400	$5,000	$6,000	$5,000	$5,000	$5,000	$5,000	Investigate and implement process and procedure improvements for construction inspection and contract administration, incorporating new tools, resources and training to improve project management and oversight, workforce efficiency, and quality assurance/quality control
3. CONSTRUCTION MANAGEMENT FOR VARIOUS BWS - WSO CONSTRUCTION PROJECTS										
Provide construction management and training services for selected BWS - WSO construction projects	**P&E**	$3,000	$300	$750	$750	$500	$500	$500	--	Work includes emergency construction, preventive maintenance for motor control centers (medium voltage) and others, GAC corrosion control, and support of telecommunications projects
4. PROJECT MANAGEMENT FOR VARIOUS BWS PROJECTS										
Provide project management, engineering and training services for selected BWS projects	**P&E**	$10,550	$1,100	$750	$3,000	$1,500	$1,500	$1,800	$2,000	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
5. MONITORING WELLS FOR RED HILL CONTAMINATION RESPONSE										
Drill and case on (1) monitoring wells for use as "sentinel" wells to warn of the presence of an underground plume from the Red Hill contamination. Location TBD.	**Const**	$4,000	--	--	$4,000	--	--	--	--	Monitoring Well Location Site J2 - BWS Moanalua 405' Reservoir #2
6. WAIKELE GULCH EXPLORATORY WELL										
Survey, videolog, clean and clear, test pump and sample well	**P&E**	--	$250	--	--	--	--	--	--	
Prepare environmental assessment for three (3) exploratory wells at Waikele Gulch	**P&E**	--	$160	--	--	--	--	--	--	
Prepare plans, specifications and engineering report	**P&E**	--	$275	--	--	--	--	--	--	
Drill, install, test pump, and sample two exploratory wells. Install a temporary bridge to access the well site.	**Const**	$7,000	--	--	$7,000	--	--	--	--	
7. EXPLORATORY WELLS FOR RED HILL CONTAMINATION RESPONSE - KA'ŌNOHI 850'										
Prepare design for one (1) exploratory well, environmental assessment (exploratory/production), and Public Infrastructure Map (PIM) Amendment for the well, pump station and connecting pipelines at Ka'ōnohi 850'.	**P&E**	$1,750	--	--	$1,750	--	--	--	--	
Drill, case, install test pump and sample one exploratory well at Ka'ōnohi 850' as possible replacement sources for the loss of Hālawa Shaft due to the Red Hill fuel contamination.	**Const**	$4,000	--	--	--	--	--	--	$4,000	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
8. DLNR WINDWARD EXPLORATORY WELL STATE WELL NUMBER (3-2449-002)										
Survey, video log, clean and clear, test pump and sample well. Provide technical report of findings and recommendations regarding feasibility of bringing well into service.	**P&E**	--	$845	--	--	--	--	--	--	
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for one (1) production well at the existing DLNR Windward Exploratory Well (Well 3-2449-002)	**P&E**	$500	--	--	$500	--	--	--	--	
Prepare plans, specifications and engineering report for one (1) production well at the existing DLNR Windward Exploratory Well (Well 3-2449-002)	**P&E**	$750	--	--	--	--	$750	--	--	
Install one (1) 0.5 MGD pump, approximately 2,000 lin. ft. transmission main, control building, landscaping, irrigation system, acoustical facilities, electrical equipment, and appurtenances (TMK: 4-5-023:002)	**Const**	--	--	--	--	--	--	--	--	
9. SCHOFIELD PLATEAU EXPLORATORY WELLS										
Prepare feasibility study, environmental assessment, and Public Infrastructure Map (PIM) Amendment for four (4) exploratory wells at Schofield Plateau near Monsanto Company Kunia	**P&E**	$550	--	--	$550	--	--	--	--	
Prepare plans, specifications and engineering report	**P&E**	--	--	--	--	--	--	--	--	
Drill, case, install test pump and sample four (4) exploratory wells at Schofield Plateau near Monsanto Company Kunia	**Const**	--	--	--	--	--	--	--	--	
10. BERETANIA PUBLIC SERVICE BUILDING EMERGENCY GENERATOR AND ISLAND-WIDE PV SYSTEMS STUDY										
Perform site investigation and study to determine options to provide an emergency generator for the Beretania Public Service Building, and suitable PV systems with battery storage for BWS facilities.	**P&E**	$1,000	--	--	$1,000	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
11. PIPELINE CONDITION ASSESSMENT										
Condition assessment of transmission pipelines as identified by the InfoMaster decision frame work	**P&E**	$400	$300	--	--	$100	$100	$100	$100	
Install pipe taps if/as needed for testing	**Const**	$2,600	--	--	--	$650	$650	$650	$650	
12. EXPLORATORY WELLS FOR RED HILL CONTAMINATION RESPONSE - WAIAU 550'										
Prepare design for one (1) exploratory well, environmental assessment (exploratory/production), and Public Infrastructure Map (PIM) Amendment for well and pump station and connecting pipelines at Waiau 550'	**P&E**	--	--	--	--	--	--	--	--	
Drill, case, install test pump and sample one exploratory well at Waiau 550' as possible replacement sources for the loss of Hālawa Shaft due to the Red Hill fuel contamination.	**Const**	$4,000	--	--	--	--	--	--	$4,000	
R&D P&E TOTAL	**P&E**	$49,500	$17,630	$6,500	$13,550	$7,100	$7,850	$7,400	$7,100	
R&D Land TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
R&D Const TOTAL	**Const**	$38,600	$0	$17,000	$11,000	$650	$650	$650	$8,650	
FY 2026 - 2031 RESEARCH AND DEVELOPMENT (R&D) TOTAL		$88,100	$17,630	$23,500	$24,550	$7,750	$8,500	$8,050	$15,750	

CATEGORY II

RENEWAL AND REPLACEMENT

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BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
II. RENEWAL AND REPLACEMENT (R&R)										
A. PUMPS - R&R										
1. PUMP RENEWAL AND REPLACEMENT										
Renewal and replacement of various BWS pumps and plant facilities	**P&E**	$1,800	$5,539	$300	$300	$300	$300	$300	$300	Annual design for emergency renewal/maintenance and replacement of BWS pumps
	Const	$24,000	$40,054	$4,000	$4,000	$4,000	$4,000	$4,000	$4,000	Annual construction for emergency renewal/maintenance and replacement of BWS pumps
2. TEMPORARY PUMPING CONNECTIONS										
Prepare plans and specifications	**P&E**	$3,000	$870	$500	$500	$500	$500	$500	$500	
Install connections for temporary pumps at critical pump stations to improve reliability	**Const**	$14,000	$3,500	--	--	$3,500	$3,500	$3,500	$3,500	
	Const	--	$2,500	--	--	--	--	--	--	
3. NU'UANU BOOSTER NO. 2 RELOCATION										
Construct relocated Booster Station No. 2 (TMK 1-9-001:001) to replace the existing Nu'uanu Booster Station No. 2. Install three (3) pumps, 12-inch suction and discharge mains, emergency generator connection and appurtenances.	**P&E**	$1,000	--	$1,000	--	--	--	--	--	
	Const	$5,000	--	--	--	--	--	$5,000	--	
4. HAWAI'I LOA BOOSTER NO. 1 PUMP AND MCC REPLACEMENT										
Replace pump, MCC and appurtenances.	**P&E**	$600	--	$600	--	--	--	--	--	
	Const	$3,000	--	--	--	--	--	$3,000	--	
5. MĀKAHA BOOSTER NO. 2 MCC REPLACEMENT										
Replace MCC and appurtenances.	**P&E**	$500	--	$500	--	--	--	--	--	
	Const	$4,000	--	--	--	--	$4,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
6. PERMANENT GENERATORS AT VARIOUS FACILITIES										
Install up to two (2) permanent generators and appurtenances at selected BWS facilities.	**Const**	$8,000	--	--	$8,000	--	--	--	--	
7. HAWAI'I LOA BOOSTER NO. 2 PUMP AND MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	--	$580	--	--	--	--	--	--	
Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades.	**Const**	$5,750	--	--	$5,750	--	--	--	--	
8. KA'ŌNOHI BOOSTER NO. 2 MCC REPLACEMENT AND FACILITY REPAIRS										
Prepare plans and specifications	**P&E**	--	$580	--	--	--	--	--	--	
Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades.	**Const**	$5,000	--	--	$5,000	--	--	--	--	
9. MAKAKILO BOOSTER NO. 1 ELECTRICAL UPGRADES AND FACILITY REPAIRS										
Prepare plans and specifications	**P&E**	--	$580	--	--	--	--	--	--	
Replace booster pumps and temporary pumping connections; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades.	**Const**	$4,000	--	--	$4,000	--	--	--	--	
10. KAILUA HEIGHTS BOOSTER ELECTRICAL UPGRADES AND FACILITY REPAIRS										
Prepare plans and specifications	**P&E**	--	$450	--	--	--	--	--	--	
Install electrical upgrades and facility repairs	**Const**	$3,000	--	--	$3,000	--	--	--	--	
11. NIU VALLEY BOOSTER NO. 1 MCC REPLACEMENT AND FACILITY REPAIRS										
Prepare plans and specifications	**P&E**	--	$400	--	--	--	--	--	--	
Replace booster pumps; replace MCC, SCADA system, and all electrical components and appurtenances; and limited control building upgrades.	**Const**	$3,000	--	--	$3,000	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
12. MAKAKILO WELL MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	$500	--	--	$500	--	--	--	--	
Install motor control center replacement	**Const**	$3,000	--	--	--	--	--	$3,000	--	
13. BELLA VISTA BOOSTER NO. 1										
Prepare plans and specifications	**P&E**	$700	--	--	$700	--	--	--	--	
Install booster pump and appurtenances from the Bella Vista 180' Reservoir to the Metro 405' system.	**Const**	$1,500	--	--	--	--	--	$1,500	--	
14. WILDER WELLS STARTER UPGRADES AND FACILITY REPAIRS										
Prepare plans and specifications	**P&E**	--	$500	--	--	--	--	--	--	
Install starter upgrades and well station repairs	**Const**	$7,000	--	--	--	$7,000	--	--	--	
15. WAIʻALAE IKI BOOSTER NO. 3 MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	--	$400	--	--	--	--	--	--	
Replace MCC and appurtenances.	**Const**	$3,000	--	--	--	$3,000	--	--	--	
16. KALIHI HI-SERVICE BOOSTER ELECTRICAL UPGRADES										
Prepare plans and specifications	**P&E**	--	$500	--	--	--	--	--	--	
Install electrical upgrades	**Const**	$2,000	--	--	--	$2,000	--	--	--	
17. ʻĀLEWA HEIGHTS BOOSTER NO. 3 MCC REPLACEMENT AND FACILITIES REPAIRS										
Prepare plans and specifications	**P&E**	$500	--	--	--	$500	--	--	--	
Install MCC replacement and facility repairs	**Const**	$3,000	--	--	--	--	--	--	$3,000	
18. HĀLAWA BOOSTER NO. 1 PUMP AND MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	--	$450	--	--	--	--	--	--	
Replace pump, MCC and appurtenances.	**Const**	$3,000	--	--	--	--	$3,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
19.ʻĀLEWA HEIGHTS BOOSTER NO. 1 MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	--	$400	--	--	--	--	--	--	
Replace MCC and appurtenances.	**Const**	$3,000	--	--	--	--	$3,000	--	--	
20.HAWAIʻI LOA BOOSTER NO. 3 MCC REPLACEMENT										
Prepare plans and specifications	**P&E**	$400	--	--	--	--	--	$400	--	
Install motor control center replacement.	**Const**	--	--	--	--	--	--	--	--	
R&R PUMPS TOTAL	**P&E**	$9,000	$11,249	$2,900	$2,000	$1,300	$800	$1,200	$800	
R&R PUMPS TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
R&R PUMPS TOTAL	**Const**	$104,250	$46,054	$4,000	$32,750	$19,500	$17,500	$20,000	$10,500	
R&R PUMPS SUBTOTAL		$113,250	$57,303	$6,900	$34,750	$20,800	$18,300	$21,200	$11,300	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
II. RENEWAL AND REPLACEMENT (R&R)										
B. RESERVOIRS - R&R										
1. WAHIAWĀ 1361' NO. 1 AND NO. 2 RESERVOIR REPLACEMENT										
Demolish existing concrete Reservoir No.1 and appurtenances.	**P&E**	--	--	--	--	--	--	--	--	Demolition of Reservoir funding in FY2026 under Facility Repair.
Prepare plans and specifications	**P&E**	$800	--	--	--	$800	--	--	--	
Replace Wahiawā 1361' No. 1 and No. 2 Reservoir with single 0.5 MG 1361' reservoir	**Const**	$5,200	--	--	--	--	--	--	$5,200	
2. NU'UANU 822' 0.2 MG RESERVOIR REPLACEMENT										
Prepare plans and specifications	**P&E**	$1,000	--	--	--	--	--	--	$1,000	
Install a replacement 822' 0.2 MG reservoir, appurtenances and connecting pipelines within the same TMK as the existing Nu'uanu 822' Reservoir (TMK 1-9-007:002) to temporarily allow reservoirs to run in series and continue to utilize hydro-pneumatic system. Connect to existing 15-inch influent main and existing 12-inch effluent main. Allow for future effluent transfer to a new 12-inch main to a reduced 822' service area and a stub-out for a new Booster Station No. 4 to a new 950' system to allow for future removal of hydro-pnematic system.	**Const**	--	--	--	--	--	--	--	--	Replacement 822' Reservoir would serve the 822' system in conjunction with the existing 822' reservoir & hydro-pneumatic tank. The existing 822' reservoir would be taken offline after the Nu'uanu 940' reservoir is installed.
R&R RESERVOIRS TOTAL	**P&E**	$1,800	$0	$0	$0	$800	$0	$0	$1,000	
R&R RESERVOIRS TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
R&R RESERVOIRS TOTAL	**Const**	$5,200	$0	$0	$0	$0	$0	$0	$5,200	
R&R RESERVOIRS SUBTOTAL		$7,000	$0	$0	$0	$800	$0	$0	$6,200	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
II. RENEWAL AND REPLACEMENT (R&R)										
C. PIPELINES - R&R										
1. KALIHI WATER SYSTEM IMPROVEMENTS, PART VI										
Prepare plans and specifications	**P&E**	--	$940	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Gulick Avenue from King Street to School Street - approx. 2,940 lin. ft. Install 8-inch mains and appurtenances along Gulick Avenue from North School Street to 66 feet southwest of Pua'ala Lane, along Ulana Street from Owāwa Street to 78 feet southeast of FH M07178, along Uhu Street from Gulick Avenue to end, along Kealoha Street from Gulick Avenue to Nākuina Street, along Pahukui Street from Gulick Avenue to Nākuina Street, along Nākuina Street from Kealoha Street to Beckley Street, along Beckley Street from Gulick Avenue to Kalihi Street, along Kalihi Street from King Street to end of 6-inch near FH M02379, along Kā'ili Street from King Street to Beckley Street, along Kopke Street from King Street to Pacheco Street and along Pacheco Street from Kopke Street to Gulick Avenue - approx. 7,480 lin. ft. Install 4-inch mains and appurtenances along Beckley Place from Beckley Street to end, along Day Place from Kalihi Street to end and along Ulana Place from Ulana Street to end - approx. 570 lin. ft. Install 2-inch mains and appurtenances along Gertz Lane from Gulick Avenue to end, along Harvey Lane from King Street to end, along Hanu Lane from Kopke Street to end and along Lukela Lane from Kopke Street to end - approx. 1,050 lin. ft.	**Const**	$22,000	--	$22,000	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
2. KALIHI WATER SYSTEM IMPROVEMENTS, PART III										
Prepare plans and specifications	**P&E**	--	$425	--	--	--	--	--	--	
Install 8-inch and 4-inch mains and appurtenances along Bannister Place from Bannister Street to dead end. Install 8-inch mains and appurtenances along Bannister Street from Laumaka Street to North King Street; along Gulick Avenue from Wilcox Lane to North King Street; along Kopke Street from Wilcox Lane to North King Street; along Factory Street from Stanley Street to North King Street; along Pu'uhale Road from Dillingham Boulevard to North King Street; along Wilcox Lane from Bannister Street to Pu'uhale Road; along Stanley Street from Bannister Street to Pu'uhale Road; along Waterhouse Street from Bannister Street to Pu'uhale Road; along Mokauea Street from Democrat Street to Kanakanui Street; and along Industrial Road from Waterhouse Street to Pu'uhale Road - approx. 9,650 lin. ft.	**Const**	--	$5,300	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Waterhouse Street, from Kopke Street to Pu'uhale Road; along Stanley Street from Kopke Street to Pu'uhale Road; along Factory Street, from Stanley Street to Waterhouse Street; and along Industrial Road from Waterhouse Street to Pu'uhale Road - approx. 1,410 lin. ft.	**Const**	$4,500	--	$4,500	--	--	--	--	--	
3. BARBERS POINT 215 WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$150	--	--	--	--	--	--	
Install 30-Inch main and appurtenances along the Barbers Point 215 facility access road, from Old Farrington Highway to Reservoir No. 1 - approx. 300 lin. ft. Install new drainline along the flowage easement to facilitate the draining of the reservoirs	**Const**	$3,500	--	$3,500	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
4. 'AIEALANI PLACE AND WELELAU PLACE 8-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$320	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along 'Aiealani Place, from Hālawa Heights Road to end; and along Welelau Place, from Hoapono Place to end - approx. 1,000 lin. ft. Install 8-inch PRV and appurtenances along Hālawa Heights Road, between 'Aiealani Place and Fernridge Place.	**Const**	$3,000	--	$3,000	--	--	--	--	--	
5. KAILUA ROAD 8-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$90	--	--	--	--	--	--	
Install 8-inch and 2-inch mains and appurtenances along 1005 Kailua Road from Kailua Road to end - approx. 685 lin. ft.	**Const**	$1,200	--	$1,200	--	--	--	--	--	
6. SERVICE LATERAL REPLACEMENT AT VARIOUS LOCATIONS										
Topographic Survey for the service lateral replacement at various locations.	**P&E**	$150	$1,000	$150	--	--	--	--	--	
Install and replace service laterals at various locations	**Const**	$8,500	$3,500	$2,500	$1,500	$1,500	$1,500	$1,500	--	
	Const	--	$1,000	--	--	--	--	--	--	
7. WATER MAIN INSTALLATION AND REPLACEMENT										
Install and replace water mains at various locations.	**P&E**	$600	$1,700	$100	$100	$100	$100	$100	$100	
	Const	$1,400	$4,025	$900	$100	$100	$100	$100	$100	
8. WATER SAMPLING STATIONS AT VARIOUS LOCATIONS										
Install water sampling stations at various locations.	**P&E**	--	$500	--	--	--	--	--	--	
	Const	$4,750	$500	$750	$1,000	$750	$750	$750	$750	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
9. WATER SYSTEM IMPROVEMENTS AT VARIOUS LOCATIONS										
Install mains and appurtenance to replace high risk water mains at various locations throughout the island.	P&E	$11,000	$769	$4,000	$7,000	--	--	--	--	
	P&E	$24,000	$19,000	--	--	$6,000	$6,000	$6,000	$6,000	
10. KALĀKAUA AVENUE 12-INCH MAIN, MONSARRAT AVENUE TO DILLINGHAM FOUNTAIN										
Install 12-inch main and appurtenances along Kalākaua Avenue from Monsarrat Avenue to Dillingham Fountain - approx. 3,500 lin. ft.	P&E	$1,500	--	$1,500	--	--	--	--	--	
	Const	$5,000	--	--	--	--	--	--	$5,000	
11. HAKIMO ROAD: 24-INCH AND 20-INCH WATER MAINS										
Prepare plans, specifications and engineering report	P&E	--	$765	--	--	--	--	--	--	
Install 24-inch mains and appurtenances along Hakimo Road, from Farrington Highway to Ulehawa Road - approximately 4,150 linear feet. Replace check valve within the Lualualei Booster Station.	Const	$10,000	--	--	$10,000	--	--	--	--	
12. IHILOA LOOP AND EHUPUA PLACE AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	P&E	--	$350	--	--	--	--	--	--	
Install 8-inch and 4-inch mains and appurtenances along Ihiloa Loop, from 100' East of Laukahi Street to Ohialoke Street; along Ohialoke Street, from Ihiloa Loop to Ehupua Place; along Ehupua Place, from Ohialoke Street to end (640 system); along Ehupua Place, from Ohialoke Street to end (405 system); along Po'olā Street, from 170' North of Kia'i Place to Panalea Place; along Pala'ole Place, from Po'olā Street to end; and along Panale'a Place, from Po'olā Street to end - approx. 4,300 lin. ft.	Const	$10,000	--	--	$10,000	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
13. PACIFIC HEIGHTS ROAD AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	--	--	--	--	--	--	--	Design funded in FY22 under project #29 "Water System Improvements at Various Locations"
Install 12-inch, 8-inch and 4-inch mains and appurtenances along Pacific Heights Road, from 2695 Pacific Heights Road to Von Hamm Place - approx. 1,500 lin. ft.	**Const**	$2,500	--	--	$2,500	--	--	--	--	
14. MOANALUA ROAD: 8-INCH WATER MAIN NEAR HEKAHA STREET										
Install 8-inch mains and appurtenances along Moanalua Road to repair a main break leak - approx. 20 lin. ft.	**Const**	$300	--	--	$300	--	--	--	--	
15. MCCULLY BRIDGE 16-INCH MAIN REPLACEMENT OF PIPE SUPPORTS										
Prepare plans and specifications	**P&E**	--	$345	--	--	--	--	--	--	
Install concrete pipe supports beams and saddles, and appurtenances for the 16-inch main along the McCully Street Bridge.	**Const**	$6,000	--	--	$6,000	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
16. LOWER MARINERS RIDGE WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$1,000	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Kaluanui Road, from Kaloaloa Street to Kaluanui Place/Kaahue Street - approx. 1,480 lin. ft. Install 8-inch mains and appurtenances along Kaloaloa Street, from Kaahue Street to Kaluanui Road; along Kaahue Street, from Kaloaloa Street to Kaluanui Road; and along Kaluanui Place from Kaluanui Road to Kaluanui Way - approx. 2,875 lin. ft. Install 8-inch and 2 1/2-inch mains and appurtenances along Kawaiki Place, from Kaahue Street to end; along Ka'uku Place, from Kaahue Street to end; along Kapoho Place, from Kaahue Street to end; along Kapāpala Place, from Kaahue Street to end; along Ka'ohe Place, from Kaahue Street to End; along Kamoi Place, from Kaahue Street to End; along Kakiwa Place, from Kaluanui Road to end; along Kakapa Place, from Kaluanui Road to end; along Kaipuha'a Place, from Kaluanui Road to end; along Kahuwai Place, from Kaluanui Road to end; along Kahauloa Place, from Kaluanui Road to end; and along Kaluanui Way, from end to end - approx. 4,665 lin. ft.	**Const**	$15,000	--	--	$15,000	--	--	--	--	
17. KELLOG STREET: 12-INCH WATER MAIN										
Prepare plans, specifications and engineering report	**P&E**	--	$468	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Kellog Street, from Kilani Avenue to the North end of Kellog Street - approx. 1,420 lin. ft. Install 8-inch mains and appurtenances along 'Auwai Drive, from Kellog Street to Kolekole Drive - approx. 700 lin. ft. Repair the leaking 12-inch water main along the steep hillside on the southeast side of Kaukonahua Gulch (past the North End of Kellog Street).	**Const**	$6,500	--	--	$6,500	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
18. KAPOLEI PARKWAY 24-INCH R-1 WATER MAIN										
Prepare plans and specifications	**P&E**	--	$500	--	--	--	--	--	--	
Install 24-inch mains and appurtenances along Kapolei Parkway, from near FH No. L04892 to Kamokila Boulevard - approx. 700 lin. ft.	**Const**	$1,700	--	--	$1,700	--	--	--	--	This project completes the connection of the RW system to Kapolei Business park so they can reduce potable water and use NP water
19. MONTEREY DRIVE AND SIERRA DRIVE: 8-INCH MAINS										
Prepare plans and specifications	**P&E**	--	$550	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Monterey Drive, from Lurline Drive to Mariposa Drive; and along Sierra Drive, from Wilhelmina Rise to Wilhelmina Rise near Manini Way - approx. 3,360 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Monterey Place, from Monterey Drive to end; and along Lanipili Place, from Monterey Drive to end - approx. 1,180 lin. ft.	**Const**	$6,000	--	--	$6,000	--	--	--	--	
20. FIRE HYDRANT INSTALLATIONS AT VARIOUS LOCATIONS										
Fire hydrant installation at various locations	**P&E**	$900	--	--	$500	$100	$100	$100	$100	
	Const	$1,000	--	--	--	--	--	$500	$500	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
21. SAND ISLAND WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$930	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Sand Island Access Road, from Auiki Street to North side of Bascule Bridge; and along Sand Island Parkway, from South side of Bascule Bridge to fire hydrant M07897 - approx. 5,600 lin. ft. Install 12-inch, 8-inch and 4-inch mains and appurtenances along Ho'okela Place, from Makepono Street to end - approx. 1,200 lin. ft. Install 8-inch mains and appurtenances along Pahounui Drive, from Mohonua Place to Sand Island Access Road - approx. 1,300 lin. ft. Install 8-inch and 4-inch mains along Mohonua Place, from Pahounui Drive to end - approx. 200 lin. ft	**Const**	$21,000	--	--	--	$21,000	--	--	--	
22. NORTH SCHOOL STREET WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$840	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along North School Street, from Kamehameha IV Road to Houghtailing Street - approx. 4,510 lin. ft. Install 8-inch mains and appurtenances along Ahonui Street, from North School Street to Linapuni Street; along Hulali Place, from Ahonui Street to end; along North School Street, from Amelia Street to Leilani Street; along North School Street, from Likelike Highway to Houghtailing Street; along Amelia Street, from North School Street to Waikoa'e Road; along Waikoa'e Road, from Amelia Street to Martin Street; along Martin Street, from North School Street to Waikoa'e Road; along Kapālama Avenue, from North School Street to Peter Buck Street; and along Brigham Street, from Kapālama Avenue to Kapālama Avenue - approx. 8,330 lin. ft. Install 4-inch mains and appurtenances along Palapala Place, from Kapālama Avenue to end - approx. 205 lin. ft.	**Const**	$11,500	--	--	--	$11,500	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
23. PĀLOLO WATER SYSTEM IMPROVEMENTS, PART IV										
Prepare plans and specifications	**P&E**	--	$970	--	--	--	--	--	--	Redesign
Install 16-inch mains and appurtenances along Pāku'i Street from 10th Avenue to Wilhelmina Rise 405 Reservoir, along 10th Avenue from Maluhia Avenue to Pāku'i Street, along Pūkele Avenue from 7th Avenue to Maluhia Avenue, along 7th Avenue from Ka'au Street to Pūkele Avenue, along Ka'au Street from Pālolo Avenue to 7th Avenue and along Pālolo Avenue from Ka'au Street to Wai'alae Avenue - approx. 4,150 lin. ft. Install 12-inch mains and appurtenances along Kalua Road from Mahana Street to 10th Avenue - approx. 985 lin. ft. Install 8-inch mains and appurtenances along 9th Avenue from Pa'ale'a Street to Kiwili Street - approx. 2,410 lin. ft.	**Const**	$11,000	--	--	--	$11,000	--	--	--	
24. AHILAMA ROAD 8-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$190	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Ahilama Road, from Māpele Road to 47-550 Ahilama Road - approx. 5,120 lin. ft.	**Const**	$10,000	--	--	--	$10,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
25. POHAKUPUNA ROAD AND PUPU STREET AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$1,710	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Pohakupuna Road, from Pāpipi Road to Makule Road - approx. 3,600 lin. ft. Install 8-inch mains and appurtenances along Pohakupuna Place, from Pohakupuna Road to Pupu Street; along Hule'ia Place, from Pupu Street to end; along Amio Street, from Pohakupuna Road to Pupu Street; along Akua Street, from Amio Street to Pupu Street; along Hailipo Street, from Pohakupuna Road to Pupu Street; along Hailipo Street, from Pāpipi Road to Onelua Street; along Pohakupuna Road, from Makule Road to Fort Weaver Road; along Makule Road, from Pohakupuna Road to 'Aikanaka Road; along Onelua Street, from 'Aikanaka Road to Pa'aloha Street; along 'Oama Street, from Onelua Street to 'Aikanaka Road; along Makaonaona Street, from Onelua Street to 'Aikanaka Road; and along Pa'aloha Street, from Pāpipi Road to 'Aikanaka Road - approx. 8,530 lin. ft. Install 8-inch and 4-inch mains along Pupu Street, from Pāpipi Road to end; and along Pupu Place, from Pupu Street to end - approx. 2,650 lin. ft	**Const**	$10,000	--	--	--	$10,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
26.FARRINGTON HIGHWAY WATER SYSTEM IMPROVEMENTS, HO'OKELE STREET VICINITY										
Prepare plans and specifications	**P&E**	--	$1,410	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Farrington Highway, from Manunūnū Street to Ho'okele Street; and along Ho'okele Street, from Farrington Highway to Waapuhi Street - approx. 3,310 lin. ft. Install 8-inch mains and appurtenances along Kula'aupuni Street, from St. Johns Road to Mamoalii Place; along Manuulaula Street, from Manuaihue Street to Manu'u Street; along Manunūnū Street, from Farrington Highway to Manu'u Street; along Ho'okele Street, from Waapuhi Street to Heleuma Street; and along Laulele Street, from Heleuma Street to Waapuhi Street - approx. 3,890 lin. ft. Install 8-inch and 4-inch mains and appurtenances along St. Johns Road, from Manuaihue Street to end; along Mamoalii Place, from Kula'aupuni Street to end; along Mamoalii Way, from Mamoalii Place to end; along Manu'u Street, from Manuulaula Street to end; along Maipalaoa Road, from Farrington Highway to end; along Meaulu Road, from Maipalaoa Road to end; along Heleuma Street, from Ho'okele Street to end; and along Ho'okele Place, from Ho'okele Street to end - approx. 6,900 lin. ft.	**Const**	$9,050	--	--	--	$9,050	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
27. 'ELELUPE ROAD AND KULI'OU'OU ROAD WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$1,050	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Kuli'ou'ou Road, from Kalanianaole Highway to Kaniela Place -approx. 2,650 lin. ft. Install 8-inch mains and appurtenances along 'Elelupe Road, from Kuli'ou'ou Line Booster Pump Station to Kuli'ou'ou Road; and along Dalene Way, from Kuli'ou'ou Road to Kawēkiu Place -approx. 2,950 lin. ft. Install 8-inch and 4-inch mains along Kaniela Place, from Kuli'ou'ou Road to end; along Haleloa Place, from Kuli'ou'ou Road to end; along Kawēkiu Place, from Kuli'ou'ou Road to end; along Nāleialoha Place, from Kuli'ou'ou Road to end; along unnamed place, from Kuli'ou'ou Road to end; and along 'Elelupe Place, from 'Elelupe Road to end - 2,585 lin. ft.	**Const**	$8,290	--	--	--	$8,290	--	--	--	
28. PALEKA ROAD AND WAIKALUA ROAD AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$740	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Paleka Road, from 'Ano'i Road to Kamehameha Highway - approx. 2,150 lin. ft. Install 8-inch mains and appurtenances along Waikalua Road, from Kamehameha Highway to Waikalua Place; along Waikapoki Road, from Waikalua Road to Wailele Road; and along Halemuku Street, from Waikalua Road to Halemuku Place - approx. 5,075 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Halemuku Place, from Halemuku Street to end - approx. 800 lin. ft.	**Const**	$7,000	--	--	--	$7,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
29. FORT WEAVER ROAD AND HAPALUA STREET WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	P&E	--	$1,000	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Fort Weaver, from Pāpipi Road to Pohakupuna Road - approx. 2,600 lin. ft. Install 8-inch mains and appurtenances along Hapalua Street, from Fort Weaver Road to 'Ewa Beach Road; along Nalomeli Place, from Fort Weaver Road to end; and along Popo'i Place, from Fort Weaver Road to end - approx. 5,740 lin. ft.	Const	$6,055	--	--	--	$6,055	--	--	--	
30. KAUKAMANA ROAD 8-INCH										
Prepare plans and specifications	P&E	--	--	--	--	--	--	--	--	
Install 8-inch water mains along Kaukamana Road from Saint John's Road to the North end, Maliona Street from the end of the existing 8-inch water main to Kaukamana Road, Kaukamana Road from Kula'aupuni Street to Kaukamana Road - approx. 4,500 lf.	Const	$4,200	--	--	--	$4,200	--	--	--	
31. NU'UANU PALI DRIVE AND OLD PALI ROAD AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	P&E	--	$750	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Nu'uanu Pali Drive, from Pali Highway to Old Pali Road; along Old Pali Road, from Nu'uanu Pali Drive to Paris Place; along Waokanaka Street, from Pali Highway (near Nu'uanu Booster No. 2) to FH M07711; and along Waokanaka Street, from 3666 Waokanaka Street to Waokanaka Place - approx. 3,175 lin. ft. Install 8-inch mains and appurtenances along 3742 Old Pali Road, from Old Pali Road to end; along Palimalu Drive, from Old Pali Road to end; along Nakele Street, from Nu'uanu Pali Drive to end; and along Hakumele Place, from Nu'uanu Pali Drive to end - approx. 1,895 lin. ft.	Const	$4,000	--	--	--	$4,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
32. ILIHAU STREET AND 'AIKAHI LOOP WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	$742	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along 'Aikahi Loop, from 'Aikapa Street to Mōkapu Road; and along Ilihau Street, from 'Aikahi Loop to Kāne'ohe Bay Drive - approx. 2,250 lin. ft. Install 8-inch mains and appurtenances along 'Aikahi Loop, from 'Aikapa Street to 'Aikahi Loop; along 'Aikapa Street, from 'Aikahi Loop to 'Aikahi Loop; and along 'Aikahi Place, from 'Aikahi Loop to end - approx. 5,370 lin. ft. Install 4-inch mains and appurtenances along 'Aikahi Place, from 'Aikapa Street to end; and along Aikāne Place, from 'Aikahi Loop to end -approx. 760 lin. ft.	**Const**	$4,000	--	--	--	$4,000	--	--	--	
33. WAIKALUA ROAD WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$320	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Holowai Street, from Waikalua Road to Holowai Place - approx. 170 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Waikalua Road, from Waikalua Place to end; along Holowai Place, from Holowai Street to end; and along 'O'opuhue Place, from Holowai Place to end - approx. 2,680 lin. ft.	**Const**	$3,845	--	--	--	$3,845	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
34.THOMAS SQUARE 20-INCH MAIN RELOCATION										
Prepare plans and specifications	**P&E**	--	$600	--	--	--	--	--	--	
Install 20-inch mains and appurtenances along S. Hotel Street, from Kealamakai Street to Ward Avenue; along Ward Avenue, from S. Hotel Street to S. Beretania Street; along S. Beretania Street, from Ward Avenue to Victoria Street; and along Victoria Street from S. Beretania Street to Young Street - approx. 1,950 lin. ft. Install 12-inch main and appurtenances along Victoria Street from S. Beretania Street to Young Street - approx. 370 lin. ft.	**Const**	$3,250	--	--	--	$3,250	--	--	--	
35.'ĀHUIMANU ROAD AREA AND WAIHE'E PLACE WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$820	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along 'Āhuimanu Road, from near Pakai Place to 'Āhuimanu Place; along 'Āhuimanu Place, from 'Āhuimanu Road to Hui Ulili Street; along Hui Ulili Street, from 'Āhuimanu Place to Alawiki Street; and along Alawiki Street, from Hui Ulili Street to near Maiapilo Way - approx. 6,760 lin. ft.	**Const**	$2,615	--	--	--	$2,615	--	--	--	
36.KAIMALU PLACE AND MŌHIHI STREET: 8-INCH WATER MAINS										
Prepare plans, specifications and engineering report	**P&E**	--	$863	--	--	--	--	--	--	Design funded in FY22 under "WATER SYSTEM IMPROVEMENTS AT VARIOUS LOCATIONS"
Install 8-inch mains and appurtenances along Kaimalu Place, at the drain box crossing near 44-055 Kaimalu Place; and along Mōhihi Street, at the Ulehawa Channel crossing near 87-1672 Mōhihi Street - approx. 140 lin. ft.	**Const**	$2,000	--	--	--	$2,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
37.PAIKŌ DRIVE 8-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$160	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Paikō Drive, from Kalaniana'ole Highway to near FH M02768 -approx. 900 lin. ft.	**Const**	$1,420	--	--	--	$1,420	--	--	--	
38.DOLE STREET AND KĀNEWAI STREET AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$980	--	--	--	--	--	--	
Install 20-inch mains and appurtenances along Dole Street, from FH M02955 to St. Louis Drive; along St. Louis Drive, from Dole Street to Wai'alae Avenue; along Wai'alae Avenue, from St. Louis Drive to 1st Avenue; along 1st Avenue, from Wai'alae Avenue to Harding Avenue; and along Harding Avenue, from 1st Avenue to Kaimukī Pump Station - approx. 4,580 lin. ft. Install 12-inch mains and appurtenances along Kānewai Street, from Dole Street to Kamakini Street - approx. 1,150 lin. ft. Install 8-inch mains and appurtenances along Wai'alae Avenue, from St. Louis Drive to 1st Avenue; and along 1st Avenue, from Wai'alae Avenue to Harding Avenue - approx. 775 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Kamakini Street, from FH M06955 to end; and along Kaluawaa Street, from Kamakini Street to end - approx. 1,680 lin. ft.	**Const**	$18,000	--	--	--	--	$18,000	--	--	
39.KAMEHAMEHA HIGHWAY WATER SYSTEM IMPROVEMENTS - PŪHULI STREET VICINITY										
Prepare plans and specifications	**P&E**	--	$1,790	--	--	--	--	--	--	
Install 30-inch mains and appurtenance along Kamehameha Highway, from Hale'aha Road to 1,000 feet East of Green Valley Road - approx. 5,300 lin. ft. Install 12-inch mains and appurtenance along Kamehameha Highway, from Pūhuli Street to 1,000 feet East of Green Valley Road - approx. 9,800 lin. ft.	**Const**	$16,000	--	--	--	--	$16,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
40.WATER SYSTEM IMPROVEMENTS AT VARIOUS LOCATIONS IN MĀNOA										
Prepare plans and specifications	**P&E**	--	$1,500	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Woodlawn Dr, from Woodlawn Terrace Place to Alani Dr; along Alani Dr, from Woodlawn Dr to E. Mānoa Rd; along E. Mānoa Rd, from Alani Dr to Pakanu St; along Pakanu St, from E. Mānoa Rd to Pawaina St; along Pawaina St, from Pakanu St to O'ahu Ave; along O'ahu Ave, from Pawaina St to Kumu St; along Kumu St, from O'ahu Ave to Kumulani St; along Huelani Dr, from Keahi St to Rainbow Dr; along Rainbow Dr, from Huelani Dr to O'ahu Ave; along O'ahu Ave, from Rainbow Dr to Mānoa Rd; along Mānoa Rd, from O'ahu Ave to Kōmai'a Dr; along Kōmai'a Dr, from Mānoa Rd to Kōmai'a Place; along Kōmai'a Place, from Kōmai'a Dr to Pu'uhonua St; along Pu'uhonua St, from Kōmai'a Place to Ferdinand Ave; along Ferdinand Ave, from Pu'uhonua St to 'Ale'o Place; and along 'Ale'o Place, from Ferdinand Ave to Sonoma St - approx. 15,005 lin. ft. Install 8-inch mains and appurtenances along Kahawai St, from Huapala St to Lowrey Ave; and along Lowrey Ave, from Kahawai St to near Mānoa Stream, along Kalāwahine Place, from Mott-Smith Dr to end; and along Melemele Place, from Paty Dr to end - approx. 2,320 lin. ft.	**Const**	$12,000	--	--	--	--	$12,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
41. HALEOLA AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	$1,531	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Haleola Street, from Hoihi Place to Halema'uma'u Street - approx. 1,870 lin. ft. Install 8-inch mains and appurtenances along Haleola Street, from Hoihi Place to end; along Halepā Place, from Haleola Street to FITNG#21388; along Haleola Street, from Haleola Place to VLVISO#35867; along Haleola Street, from Halema'uma'u Street to Halema'uma'u Street; along Anolani Street, from Halema'uma'u Street to FITNG#19976; along Halepā Place, from Haleola Street to FITNG#21388; along Kanā'ū Street, from Haleola Street to Hawai'i Loa Street; along Kawaikui' Street, from Haleola Street to Hawai'i Loa Street; along Hawai'i Loa Street, from Kanā'ū Street to Kawaiku'i Street; and along Pia Street, from Haleola Street to Halema'uma'u Street - approx. 8,675 lin. ft. Install 6-inch and 4-inch mains and appurtenances along Halepā Place, from FITNG#21388 to end; along 'Anolani Street, from 'Anonia Street to FITNG#2266; and along Kawaiku'i Place, from Hawai'i Loa Street to end - approx. 1,680 lin. ft.	**Const**	$9,000	--	--	--	--	$9,000	--	--	
42. WYLLIE STREET AND LILIHA STREET WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	$1,211	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Wyllie Street, from 'Ālewa Drive to Nu'uanu Avenue - approx. 2,775 lin. ft. Install 8-inch mains and appurtenances along Liliha Street, from North Judd Street to Wyllie Street; and along 'Ehakō Place, from Liliha Street to end - approx. 3,995 lin. ft.	**Const**	$8,000	--	--	--	--	$8,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
43.KĀNE'OHE BAY DRIVE AND KAMEHAMEHA HIGHWAY WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$740	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Kamehameha Highway, from Kolokio Street to Kāne'ohe Bay Drive - approx. 1,230 lin.ft. Install 12-inch mains and appurtenances along Kāne'ohe Bay Drive, from Kamehameha Highway to Puaae Road; along Kamehameha Highway, from Kāne'ohe Bay Drive to Luluku Road; and along Luluku Road, from 'Apapane Street to Kamehameha Highway - approx. 5,580 lin. ft.	**Const**	$8,000	--	--	--	--	$8,000	--	--	
44.8TH AVENUE AND 9TH AVENUE WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	$1,159	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along 8th Avenue, from Wai'alae Avenue to Alohea Avenue; along 9th Avenue, from Wai'alae Avenue to Alohea Avenue; along Kīlauea Avenue, from 8th Avenue to 9th Avenue; along Maunaloa Avenue, from 8th Avenue to 9th Avenue; along Kaimukī Avenue, from 8th Avenue to 9th Avenue; and along Pāhoa Avenue, from 8th Avenue to 9th Avenue - approx. 8,910 lin. ft.	**Const**	$8,000	--	--	--	--	$8,000	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
45.HAHA'IONE STREET, HŌKŪLANI STREET, KAHENA STREET AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$900	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along 'Ainapō Street, from Kahena Street to Haha'ione Street - approx. 300 lin. ft. Install 8-inch mains and appurtenances along Haha'ione Street, from 'Ainapō Street to Pepe'ekeo Street; and along Kahena Street, from 'Ainapō Street to Haha'ione Street - approx. 4,770 lin. ft. Install 8-inch and 4-inch mains along 'Ainapō Street, from Haha'ione Street to end; along Hōkūlani Street, from 'Ainapō Street to end; and along Kūlani Street, from 'Ainapō Street to end - approx. 2,590 lin. ft.	**Const**	$7,000	--	--	--	--	$7,000	--	--	
46.LEOLUA STREET AND KĪPOU STREET AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$1,200	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Leolua Street, from Kunia Road on-ramp to Leokū Street and along Leokū Street, from Waipahu Street to Farrington Highway - approx. 2,400 lin. ft. Install 8-inch mains and appurtenances along Hene Street, from Hulahē Street to Honowai Street; along Hō'ae'ae Street, from Honowai Street to Haaa Street; and along Loaa Street, from Hō'ae'ae Street to Haaa Street - approx. 2,040 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Haaa Street, from Hō'ae'ae Street to end; along Hulahē Street, from Hene Street to end; along Kīpou Street, from Honowai Street to end; along Kīpou Place, from Kīpou Street to end; and along Kiokio Place, from Kīpou Street to end - approx. 5,840 lin. ft. Install 4-inch mains and appurtenances along Kīwini Place, from Kīpou Street to end - approx. 110 lin. ft.	**Const**	$6,370	--	--	--	--	$6,370	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
47.KAPAHULU AVENUE AND LĒ'AHI AVENUE WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$700	--	--	--	--	--	--	
Install 24-inch mains and appurtenances along Kapahulu Avenue, from Kūhiō Avenue to Ala Wai Boulevard - approx. 1,350 lin. ft. Install 16-inch mains and appurtenances along Kapahulu Avenue, from Kalākaua Avenue to Kūhiō Avenue - approx. 880 lin. ft. Install 8-inch mains and appurtenances along Lē'ahi Avenue, from Kapahulu Avenue to Pualei Circle - approx. 2,680 lin. ft.	**Const**	$4,200	--	--	--	--	$4,200	--	--	
48.KAMEHAMEHA HIGHWAY WATER SYSTEM IMPROVEMENTS, PŪPŪKEA ROAD VICINITY										
Prepare plans and specifications	**P&E**	--	$520	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Kamehameha Highway, from Pūpūkea Road to 550 feet South of FH C00497 - approx. 2,420 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Kūpaoa Place, from Kamehameha Highway to end - approx. 165 lin. ft.	**Const**	$4,005	--	--	--	--	$4,005	--	--	
49.FARRINGTON HIGHWAY WATER SYSTEM IMPROVEMENTS, WAIPAHU DEPOT ROAD VICINITY										
Prepare plans and specifications	**P&E**	--	$790	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Farrington Highway, from Makamaka Place to Awamoku Street; along Waipahu Depot Street, from Farrington Highway to Waipahu Street; along Waipahu Street, from Waipahu Depot Street to FH L00328; and along Mokuola Street, from Farrington Highway to Hikimoe Street - approx. 6,915 lin. ft.	**Const**	$3,515	--	--	--	--	$3,515	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
50. ALA HOKU PLACE 16-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$360	--	--	--	--	--	--	
Install 16-inch main and appurtenances along Ala Hoku Place, from Ala Aolani Street to end; and along the private road, from Ala Hoku Place to the 16-inch cross-country main - approx. 2,535 lin. ft.	**Const**	$2,300	--	--	--	--	$2,300	--	--	
51. KANUNU STREET AND MAKALOA STREET 8-INCH MAIN										
Prepare plans and specifications	**P&E**	--	$330	--	--	--	--	--	--	
Install 8-Inch mains and appurtenances along Kanunu Street, from Ke'eaumoku Street to Kaheka Street; and along Makaloa Street, from Ke'eaumoku Street to Poni Street - approx. 2,430 lin. ft.	**Const**	$1,075	--	--	--	--	$1,075	--	--	
52. FARRINGTON HIGHWAY 24-INCH MAIN REHABILITATION										
Prepare feasibility study to evaluate pipe rehabilitation technologies for the inactive 24-inch main along Farrington Highway, to provide Wai'anae with a redundant transmission main for water service reliability.	**P&E**	--	$750	--	--	--	--	--	--	
Prepare plans and specifications	**P&E**	$1,500	$1,500	--	--	--	$1,500	--	--	FY2029 P&E for design of remaining 3 phases
Rehabilitate 24-inch main along Farrington Highway from Barber's Point Line Booster to Nānākuli Avenue -approx. 25,000 lin. ft.	**Const**	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
53.KŪHIŌ AVENUE AND KA'IULANI AVENUE WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$960	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Kūhiō Avenue, from Kalākaua Avenue to Kapahulu Avenue - approx. 6,180 lin. ft. Install 12-inch mains and appurtenances along Ka'iulani Avenue, from Ala Wai Boulevard to Kalākaua Avenue - approx. 1,450 lin. ft. Install 8-inch mains and appurtenances along Kūhiō Avenue, from Walina Street to Ka'iulani Avenue - approx. 500 lin. ft.	**Const**	$16,000	--	--	--	--	--	$16,000	--	
54.KAUNA'OA STREET AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$550	--	--	--	--	--	--	
Install 30-inch mains and appurtenances along Kana'ina Avenue, from Mākini Street to Kauna'oa Street; and along Kauna'oa Street, from Kana'ina Avenue to Campbell Avenue - approx. 915 lin. ft. Install 12-inch mains and appurtenances along Campbell Avenue, from Mākini Street to Kauna'oa Street - approx. 250 lin. ft. Install 8-inch mains and appurtenances along Kauna'oa Street, from Campbell Avenue to Trousseau Street; along Mākini Street, from Campbell Avenue to Trousseau Street; and along Campbell Avenue, from Monsarrat Avenue to Collins Street - 2,690 lin. ft.	**Const**	$8,020	--	--	--	--	--	$8,020	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
55.KAMEHAMEHA HIGHWAY - HALE'IWA WATER SYSTEM IMPROVEMENTS, PART I & II										
Prepare plans and specifications	**P&E**	--	$874	--	--	--	--	--	--	Redesign funded in FY22
Part II: Install 12-inch main along Kamehameha Highway from Papa'iloa Road to approximately 300 feet northwest of Kawailoa Drive - approx. 2,400 lin. ft. Install 8-inch main along Kamehameha Highway from 16-inch main interconnection near FH C00059 to approximately 550 feet northeast of FH C00056 - approx. 4,900 lin. ft.	**Const**	$6,400	--	--	--	--	--	$6,400	--	
Part I: Install 8-inch mains and appurtenances along Kamehameha Highway from 625 feet northeast of FH C00049 to 10 feet northeast of FH C00041 and along Pōhaku Loa Way from Kamehameha Highway to Kamehameha Highway - approx. 6,600 lin. ft. Install 8-inch and 4-inch mains and appurtenances along a private road (TMK: 6-1-012:040) from Kamehameha Highway to end of road across of FH C00501, along Punalau Place from Kamehameha Highway to end, along Ikuwai Place from Kamehameha Highway to end, along Ikuwai Way from Kamehameha Highway to end, and along various side streets - approx. 2,700 lin. ft. Install 2-inch mains along TMK 6-1-011:010, TMK 6-1-011:001, TMK 6-1-011:002, and TMK 6-1-011:015 - approx. 1,140 lin. ft.	**Const**	$7,445	--	--	--	--	--	$7,445	--	
56.GAC TREATMENT FOR WAIPI'O HEIGHTS WELLS AND WAIPI'O HEIGHTS WELLS I PART A - TRANSMISSION MAIN										
Prepare plans and specifications	**P&E**	--	$500	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Lumihoahu Street from Waipi'o Heights Wells and Wells I to Lumi'aina Street, along Lumi'aina Street from Lumihoahu Street to Kamehameha Highway, along Kamehameha Highway from Lumi'aina Street to Waipahu Wells III GAC Treatment Facility - approx. 3,800 lin. ft.	**Const**	$6,170	--	--	--	--	--	$6,170	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
57.KAMEHAMEHA HIGHWAY: 16-INCH WATER MAIN, PART I										
Prepare plans, specifications and engineering report	**P&E**	--	$2,564	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Kamehameha Highway, from Kahauola Street to VLVISO#41332 - approx. 2,400 lin. ft.	**Const**	$6,000	--	--	--	--	--	$6,000	--	
58.KILIHAU STREET, ʻĀHUA STREET AND KĀKOʻI STREET 12-INCH AND 8-INCH MAINS										
Prepare plans and specifications	**P&E**	--	$768	--	--	--	--	--	--	
Install 12-inch and 8-inch mains and appurtenances along Kilihau Street, from 'Ahua Street to end; and along Kāko'i Street, from Kilihau Street to end - approx. 2,790 lin. ft. Install 8-inch mains and appurtenances along 'Āhua Street, from Kilihau Street to Mokumoa Street -approx. 2,330 lin. ft.	**Const**	$5,500	$2,093	--	--	--	--	$5,500	--	
59.WAIʻANAE WATER SYSTEM IMPROVEMENTS, PART III										
Prepare plans and specifications	**P&E**	--	$690	--	--	--	--	--	--	
Install 16-inch mains and appurtenances along Farrington Highway from Kaulawaha Road to Lualualei Homestead Road - approx. 6,450 lin. ft. Install 8-inch mains and appurtenances along Old Government Road from Farrington Highway to Plantation Road - approx. 1,200 lin. ft.	**Const**	$5,350	--	--	--	--	--	$5,350	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
60. KAIMUKĪ AVENUE AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$1,100	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Maunaloa Avenue, from 16th Avenue to 20th Avenue; along Kaimukī Avenue, from 16th Avenue to 21st Avenue; along Pāhoa Avenue, from 18th Avenue to 150 feet beyond FH M03591; along 17th Avenue, from Kīlauea Avenue to Kaimukī Avenue; along 18th Avenue, from Kaimukī Avenue to Pāhoa Avenue; along 19th Avenue, from Maunaloa Avenue to Pāhoa Avenue; and 20th Avenue, from Maunaloa Avenue to Pāhoa Avenue - approx. 9,850 lin. ft.	**Const**	$5,000	--	--	--	--	--	$5,000	--	
61. KUAHEA STREET AND WAIʻŌMAʻO STREET WATER SYSTEM IMPROVEMENTS										
Prepare plans, specifications and engineering report	**P&E**	--	$510	--	--	--	--	--	--	
Install 12-inch mains and appurtenances along Waiʻōmaʻo Road, from FH no. M07831 to Puʻunoa Place - approx. 2,570 lin. ft. Install 8-inch mains and appurtenances along Kuahea Street, from Waiʻōmaʻo Road (West) to Waiʻōmaʻo Road (East) - approx. 1,330 lin. ft.	**Const**	$3,500	--	--	--	--	--	$3,500	--	
62. KEANA ROAD AREA WATER SYSTEM IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$490	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Keana Road, from Kāneʻohe Bay Drive to Nāmoku Street; and along Hikiwale Street, from Keana Road to Hikiwale Place - approx. 2,150 lin. ft. Install 8-inch and 4-inch mains and appurtenances along Nohonani Place, from Kāneʻohe Bay Drive to end; along Hikiwale Place, from Hikiwale Street to end; along Nāmoku Street, from Neʻepapa Place to FH W01130; along Neʻepū Place, from Nāmoku Street to end; and along Awele Place, from Nāmoku Street to end - approx. 3,130 lin. ft.	**Const**	$2,410	--	--	--	--	--	$2,410	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
63.WAHIAWĀ WATER SYSTEM IMPROVEMENTS, PART IB										
Install 12-inch mains and appurtenances along Kamehameha Highway, from ʻŌhai Street to California Avenue; and along California Avenue, at the Kamehameha Highway intersection - approx. 1,540 lin. ft. Install 8-inch mains and appurtenances along ʻŌhai Street, at the Kamehameha Highway intersection; and along Kilani Avenue, at the Kamehameha Highway intersection - approx. 500 lin. ft.	**Const**	$2,000	--	--	--	--	--	$2,000	--	Design done with "WAHIAWA WATER SYSTEM IMPROVEMENTS, PART 1A"
64.PRINCE EDWARD STREET AND KOA AVENUE 8-INCH MAINS										
Prepare plans and specifications	**P&E**	--	$400	--	--	--	--	--	--	
Install 8-inch mains and appurtenances along Prince Edward Street, from Kaʻiulani Avenue to Liliʻuokalani Avenue; and along Koa Avenue, from Kaʻiulani Avenue to Liliʻuokalani Avenue - approx. 2,060 lin. ft.	**Const**	$1,500	--	--	--	--	--	$1,500	--	
65.MĀPELE PLACE PIPING MODIFICATION										
Prepare plans and specifications	**P&E**	--	--	--	--	--	--	--	--	
Install 20-inch mains and appurtenances along Ahilama Road, from Waiheʻe Road to Māpele Road; along Māpele Road, from Ahilama Road to Uapōʻaihala Place; along Māpele Place, from Māpele Road to 47-550 Māpele Place - approx. 8,500 lin. ft. Abandon approx. 2,800 ft of cross-country 20-in main.	**Const**	$10,000	--	--	--	--	--	--	$10,000	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
66. KAHUAILANI STREET WATER SYSTEM IMPROVEMENTS										
Install 12-inch mains and appurtenances along Mokuola Street from Waipahu Street to 70 feet beyond Nalii Street - approx. 500 lin. ft. Install 8-inch mains and appurtenances along Kahuailani Street from Hikimoe Street to end, along Puamano Place from Waipahu Street to end, along Kahiki Place from Puamano Place to end and along Hikimoe Street from Waipahu Depot Street to FH L04002 - approx. 4,020 lin. ft. Install 4-inch mains and appurtenances along the side street from Hikimoe Street to end - approx. 115 lin. ft.	**Const**	$2,105	--	--	--	--	--	--	$2,105	
R&R PIPELINES TOTAL	**P&E**	$39,650	$67,334	$5,750	$7,600	$6,200	$7,700	$6,200	$6,200	
R&R PIPELINES TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
R&R PIPELINES TOTAL	**Const**	$426,940	$16,418	$38,350	$60,600	$121,575	$109,815	$78,145	$18,455	
R&R PIPELINES SUBTOTAL		$466,590	$83,752	$44,100	$68,200	$127,775	$117,515	$84,345	$24,655	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
II. RENEWAL AND REPLACEMENT (R&R)										
D. TREATMENT - R&R										
1. TEMPORARY DRINKING WATER TREATMENT SYSTEMS										
Install temporary drinking water treatment systems at various locations	**Const**	$5,000	$5,000	$5,000	--	--	--	--	--	
2. GAC CORROSION CONTROL AND REPAIRS AT VARIOUS LOCATIONS										
Perform corrosion control and repairs of selected BWS GAC facilities. CM services funding included for this project.	**P&E**	--	--	--	--	--	--	--	--	In-house survey done. CM services not used.
	Const	$15,000	$13,492	$3,500	$3,500	$4,000	$4,000	--	--	
3. GRANULAR ACTIVATED CARBON (GAC) DISPOSAL OPTIONS										
Develop an implementation plan for the construction of a GAC reactivation plant. Design RFP development, provide project management services to monitor DBOM progress and provide operations management oversight for 12-month period after construction complete.	**P&E**	$2,800	$1,250	$500	$1,000	$650	$400	$250	--	
4. PFAS TREATMENT AT KAAMILO WELLS										
Install four (4) new GAC vessels, backwash tank system, including pump and filter setup, and piping.	**Const**	$14,000	--	--	$14,000	--	--	--	--	
5. PFAS TREATMENT MOANALUA WELLS										
Install eight (8) new GAC vessels, backwash tank system, including pump and filter setup, and piping.	**Const**	$26,000	--	--	$26,000	--	--	--	--	
6. PFAS TREATMENT AT PEARL CITY SHAFT										
Install two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping.	**Const**	$10,000	--	--	$10,000	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
7. TREATMENT REPAIR AND REHABILITATION										
Prepare plans and specifications	**P&E**	$2,430	--	--	$810	$810	$810	--	--	
Upgrade control valves and piping at BWS Treatment Facilities	**Const**	$5,475	--	--	--	--	--	$5,475	--	
R&R TREATMENT TOTAL	**P&E**	$5,230	$1,250	$500	$1,810	$1,460	$1,210	$250	$0	
R&R TREATMENT TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
R&R TREATMENT TOTAL	**Const**	$75,475	$18,492	$8,500	$53,500	$4,000	$4,000	$5,475	$0	
R&R TREATMENT SUBTOTAL		$80,705	$19,742	$9,000	$55,310	$5,460	$5,210	$5,725	$0	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
II. RENEWAL AND REPLACEMENT (R&R)										
E. FACILITIES - R&R										
1. MĀKAHA SHAFT TUNNEL REHABILITATION										
Prepare plans and specifications	**P&E**	--	$700	--	--	--	--	--	--	
Replacement of all MCC, SCADA system, and all electrical components and appurtenances; replacement of pump units and associated piping, valves and appurtenances; replacement of ventilation system, plumbing system, and inclined elevator; replacement of 8-inch waterline and appurtenances; rehabilitation and expansion of the portal building; and replacement of the perimeter fencing.	**Const**	$7,500	--	$7,500	--	--	--	--	--	
2. FACILITY REPAIR AND RENOVATION										
Repair, renovation, reroofing, fencing and repainting of selected BWS facilities.	**P&E**	$12,000	$12,460	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	
	Const	$45,500	$57,500	$11,500	$10,000	$6,000	$6,000	$6,000	$6,000	
3. PUMP STATION INSTRUMENTATION & CONTROLS AND SCADA UPGRADE										
Project planning, design, and management services	**P&E**	$1,700	$1,700	$700	--	$500	$500	--	--	
	P&E	--	$850	--	--	--	--	--	--	
Upgrade instrumentation and controls equipment at various pump stations and revamp SCADA system to provide smarter functionality	**Const**	$20,000	$626	$6,000	$2,000	$6,000	$6,000	--	--	
	Const	--	$4,900	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
4. SECURITY IMPROVEMENTS AT VARIOUS LOCATIONS										
Security improvements and enhancements includes, but not limited to fencing, doors and windows, vegetation setbacks and access control systems at various BWS locations	**Const**	$17,000	$19,168	$1,000	$4,000	$3,000	$3,000	$3,000	$3,000	
	Const	$3,000	--	$3,000	--	--	--	--	--	
	Const	--	$4,600	--	--	--	--	--	--	
Project planning, design and management services	**P&E**	--	$1,400	--	--	--	--	--	--	
5. SLOPE STABILIZATION INVESTIGATION AT VARIOUS FACILITIES										
Inspect slopes and determine appropriate mitigation at various reservoir facilities	**P&E**	--	$400	--	--	--	--	--	--	
Prepare plans and specifications	**P&E**	$2,000	--	$1,000	--	--	$1,000	--	--	
Install improvements to stabilize the rock face at various BWS reservoir sites	**Const**	$6,000	--	--	--	--	--	$3,000	$3,000	
6. PUMP STATION ASSESSMENT AND OPERATIONS/REPAIRS										
Update pump station condition assessments and operations database	**P&E**	$600	$600	$300	$300	--	--	--	--	
7. MONITORING WELL ASSESSMENT AND REPAIR										
Provide well condition assessment and associated repair services for monitor wells	**P&E**	$900	$660	$150	$150	$150	$150	$150	$150	
8. PROFESSIONAL SERVICES FOR BWS PROJECTS										
Obtain services of archaeologists, botanists, environmental engineers, water quality labs, planners, government agencies and others	**P&E**	$1,600	$5,000	$100	$300	$300	$300	$300	$300	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
9. KALAMA VALLEY PRESSURE REDUCING VALVES PRV										
Feasibility and Site Study to reduce high pressures in the Kamehame 500 system in Kamilo'iki and Kalama Valleys	**P&E**	--	$150	--	--	--	--	--	--	
Prepare plans and specs for pressure-reducing valve assembly and associated water system improvements in Kalama Valley to reduce high water pressures	**P&E**	--	$910	--	--	--	--	--	--	
Install two PRVs on the existing 12-inch main along Hawai'i Kai Drive, West of Kalama Valley. PRVs installed in an above ground structure along with communications and supervisory controls	**Const**	$2,000	--	--	$2,000	--	--	--	--	
10. PUMP STATION BUILDING REPAIRS										
Reroofing, painting, exterior and interior repairs of selected pump station building facilities.	**Const**	$12,000	--	--	$3,000	$3,000	$3,000	$3,000	--	
11. MAUNA 'OLU 530' OPEN RESERVOIR DAM ASSESMENT										
Conduct geotechnical investigation and prepare slope stability analysis of dam embankment under various loading conditions; update Hydrologic and Hydraulic Study; conduct topographic survey and prepare topographic map of dam and reservoir site; and identify and evaluate options to establish upstream control of outlet works.	**P&E**	$800	--	--	$800	--	--	--	--	
12. KONA LOW STORM REPAIRS										
Repairs to access roads and facilities damaged by the Kona Low Storm in March 2026	**P&E**	$2,000	--	--	$2,000	--	--	--	--	
13. NU'UANU RESERVOIR NO. 4 DAM IMPROVEMENTS PHASE II										
Improvements based on the geotechnical exploration and slope stability evaluation	**Const**	$4,000	--	--	--	$4,000	--	--	--	Design done with "NU'UANU RESERVOIR NO. 4 DAM IMPROVEMENTS".

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
14.WAIMĀNALO TUNNEL I AND II RENOVATION										
Investigate and assess tunnel conditions and prepare plans and specifications for improvements needed to reactivate tunnels	**P&E**	--	$300	--	--	--	--	--	--	
Prepare plans and specifications to install improvements to stabilize entrance to tunnels.	**P&E**	--	$350	--	--	--	--	--	--	
Install tunnel entrance stabilization improvements, drainage improvements, tunnel hatch installation, and portal stabilization at Waimānalo Tunnels I & II.	**Const**	$3,000	--	--	--	$3,000	--	--	--	
15.PĀLOLO TUNNEL PORTAL AND ACCESS PATH IMPROVEMENTS										
Prepare plans and specifications	**P&E**	--	$100	--	--	--	--	--	--	
Install Pālolo Tunnel portal improvements, stabilize portal entrance, extend inlet piping 60 feet, install pipe supports and concrete dam, clean lower 6,000 feet of the pipeline to the chlorinator and install temporary booster pump. Repair eroded sections of the access path.	**Const**	$2,000	--	--	--	$2,000	--	--	--	
16.WAI'ANAE PLANTATION TUNNEL III RENOVATION										
Prepare plans and specifications to install improvements to stabilize entrance to tunnel.	**P&E**	$350	--	--	--	$350	--	--	--	
Install tunnel entrance stabilization improvements, drainage improvements, tunnel hatch installation, and portal stabilization at Wai'anae Plantation Tunnel III.	**Const**	--	--	--	--	--	--	--	--	
17.SEISMIC UPGRADE OF VARIOUS RESERVOIRS										
Prepare plans and specifications	**P&E**	$1,500	--	--	--	$500	$500	$500	--	
Install improvements at various BWS reservoir sites	**Const**	$7,420	--	--	--	--	--	--	$7,420	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
18. WAIMALU WELLS I SLOPE STABILIZATION										
Prepare plans and specifications	P&E	--	$400	--	--	--	--	--	--	
Install slope stabilization along the downhill slope at Waimalu Wells I	Const	$2,500	--	--	--	--	$2,500	--	--	
R&R FACILITIES TOTAL	P&E	$23,450	$25,980	$4,250	$5,550	$3,800	$4,450	$2,950	$2,450	
R&R FACILITIES TOTAL	Land	$0	$0	$0	$0	$0	$0	$0	$0	
R&R FACILITIES TOTAL	Const	$131,920	$86,794	$29,000	$21,000	$27,000	$20,500	$15,000	$19,420	
R&R FACILITIES SUBTOTAL		$155,370	$112,774	$33,250	$26,550	$30,800	$24,950	$17,950	$21,870	
P&E R&R TOTAL	P&E	$79,130	$105,813	$13,400	$16,960	$13,560	$14,160	$10,600	$10,450	
Land R&R TOTAL	Land	$0	$0	$0	$0	$0	$0	$0	$0	
Const R&R TOTAL	Const	$743,785	$167,758	$79,850	$167,850	$172,075	$151,815	$118,620	$53,575	
FY 2026 - 2031 RENEWAL AND REPLACEMENT (R&R) TOTAL		$822,915	$273,571	$93,250	$184,810	$185,635	$165,975	$129,220	$64,025	

CATEGORY III

CAPACITY EXPANSION

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BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
III. CAPACITY EXPANSION (CapExp)										
A. PUMPS - CapExp										
1. RED HILL CONTAMINATION RESPONSE PRODUCTION WELLS - NEWTOWN 550'										
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for the Red Hill contamination response production wells at Newtown 550'. Exp well EA by ESO.	**P&E**	$450	--	$450	--	--	--	--	--	
Prepare plans, specifications and engineering report for the Red Hill contamination response production well at Newtown 550'. Install one (1) 2.0 MGD pump, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment and appurtenances at Newtown 550' reservoir site (TMK 9-8-062:099). Install 12-inch mains along Punanani Wells access road from Komo Drive to Punanani Well site - approx. 700 lin. ft. Install control valve assembly at Punanani Wells site to connect the Newtown 550' and Metro 180' water systems.	**P&E**	$1,000	--	--	--	--	--	--	$1,000	
	Const	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
2. PACIFIC HEIGHTS BOOSTER NO. 1										
Services to obtain land acquistion for new Pacific Heights Booster No. 1 to eliminate cross-country water main between Jack Lane and the Pacific Heights 578' Reservoir	**Land**	--	$400	--	--	--	--	--	--	Services to obtain land Funds not used. Need to complete FS to determine site selection and acquisition cost.
Prepare feasibility study to determine potential sites, land acquisition costs, and alternatives to constructing a new Pacific Heights Booster No. 1 to eliminate the cross-country water main between Jack Lane and the Pacific Heights 578' Reservoir.	**P&E**	$300	--	$300	--	--	--	--	--	
Land acquisition for new booster pump facility	**Land**	--	--	--	--	--	--	--	--	
Prepare plans and specifications	**P&E**	--	--	--	--	--	--	--	--	
Install new Pacific Heights Booster No. 1	**Const**	--	--	--	--	--	--	--	--	
3. MĀNOA WELL II UNIT NO. 2										
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for a second production well at existing Mānoa Well II Station (TMK: 2-9-054:033)	**P&E**	$275	--	$275	--	--	--	--	--	
Prepare plans, specifications, and engineering report	**P&E**	$550	--	--	--	--	--	--	$550	
Install one (1) 1.0 MGD pump, connections, at existing Mānoa Well II Station (TMK: 2-9-054:033)	**Const**	--	--	--	--	--	--	--	--	Well No. 2 & pump to be redundant for Well No. 1

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
4. 'EWA SHAFT WELL FIELD										
Prepare plans and specifications	**P&E**	--	$3,000	--	--	--	--	--	--	
Drill, case, install test pump and sample up to five (5) exploratory wells	**Const**	--	$4,000	--	--	--	--	--	--	
Install concrete stream lining bank to bank (approx. 2,000 lin. ft.), five (5) 2.0 MGD pumps, control building, backup generator, pipeline (inclusive of Honouliuli Stream crossing), site landscaping and irrigation, electrical equipment and all appurtenances	**Const**	$27,000	--	--	--	$27,000	--	--	--	
5. WAI'ALAE NUI WELL										
Survey, videolog, clean and clear, test pump and sample well. Provide technical report of findings and recommendations regarding feasibility of bringing well into service	**P&E**	--	$700	--	--	--	--	--	--	
Perform Condition Assessment of Wai'alae Nui Well (State Well No.3-1747-003). Includes accessing well, plumbness and alignment surveying, clearing and video logging the entire length of the well, and test pumping and sampling the well for drinking water parameters, and a technical report.	**P&E**	--	--	--	--	--	--	--	--	Condition Assessment work funded through "FACILITY REPAIR AND RENNOVATION" in FY22.
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for one (1) production well at the existing Wai'alae Nui Well site (Well 3-1747-003)	**P&E**	--	$300	--	--	--	--	--	--	
Prepare plans, specifications and engineering report for one (1) production well at the existing Wai'alae Nui Well site (Well 3-1747-003)	**P&E**	$650	--	--	--	$650	--	--	--	
Install one (1) 0.5 MGD pump, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment, and appurtenances (TMK: 3-5-024:001)	**Const**	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
6. RED HILL CONTAMINATION RESPONSE PRODUCTION WELLS - 'AIEA 497'										
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for the Red Hill contamination response production well at 'Aiea 497'.	**P&E**	--	$300	--	--	--	--	--	--	
Prepare plans, specifications and engineering report for the Red Hill contamination response production well at 'Aiea 497'. Install one (1) 2.5 MGD pump, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment and appurtenances at 'Aiea 497' reservoir site (TMK 9-9-067:001). Upsize influent/effluent line from 12-inch to 16-inch at 'Aiea 497' reservoir site along Kalawina Place, from 'Aiea 497' reservoir to Ka'amilo Street - approx. 450 lin. ft. Install 12-inch mains and appurtenances along Kaamilo Street, from Kalawina Place to 'Ilie'e Street; along 'Ilie'e Street, from Kaamilo Street to Lupea Street; along Lupea Street, from 'Ilie'e Street to Kaamilo Street; and along Kaamilo Street, from Lupea Street to Olena Street - approx. 5,500 lin. ft. Replace existing 16-inch and 12-inch mains with new 16-inch mains at Kaamilo Wells along Kaamilo Street, from Kaamilo Wells to Metro 180' 36-inch main connection - approx. 100 lin. ft. Install 12-inch mains and appurtenances along 'Aiea Heights Drive, from 'Auamo Street to 'Aiea 277' reservoir site - approx. 1,600 lin. ft. Install two (2) control valve assemblies at Kaamilo Wells site and one (1) at 'Aiea 277' reservoir site. Install emergency pump connection at Kaamilo Wells site.	**P&E**	$3,000	--	--	--	--	$3,000	--	--	
	Const	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
7. KUNIA WELLS IV										
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for three (3) production wells and GAC treatment facility for Kunia Wells IV.	**P&E**	--	$450	--	--	--	--	--	--	
Install three (3) 1.5 MGD pumps, eight (8) 30,000-lb GAC vessels, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment, and appurtenances (TMK: 9-2-001:014)	**P&E**	$6,900	--	--	--	--	--	$6,900	--	
	Const	--	--	--	--	--	--	--	--	
Land acquisition for new pump facility, GAC treatment facility, and appurtenances	**Land**	$1,000	--	--	--	--	--	--	$1,000	
8. WAIKELE GULCH WELLS										
Prepare environmental assessment and Public Infrastructure Map (PIM) Amendment for two (2) production wells at Waikele Gulch.	**P&E**	$400	--	--	--	--	--	$400	--	
Prepare plans, specifications and engineering report	**P&E**	--	--	--	--	--	--	--	--	
Install two (2) 1.5 MGD pumps, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment, and appurtenances (TMK: 9-4-002:008)	**Const**	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
9. RED HILL CONTAMINATION RESPONSE PRODUCTION WELLS - KA'ŌNOHI 850'										
Land acquisition near the existing Ka'ōnohi 850' reservoir site to install new pump station and appurtenances.	**Land**		--	--	--	--	--	--	$500	
Prepare plans, specifications and engineering report for the Red Hill contamination response production well at Ka'ōnohi 850'. Install one (1) 2.0 MGD pump, control building, pipeline, landscaping, irrigation system, acoustical facilities, electrical equipment and appurtenances at Ka'ōnohi 850' reservoir site (TMK 9-8-011:040). Install control valve assembly at Ka'ōnohi 550' reservoir site to connect the Ka'ōnohi 850' and Ka'ōnohi 550' water systems. Install control valve assembly at Ka'ōnohi 277' reservoir site to connect the Ka'ōnohi 550' and Pearl Harbor 277' water systems. Install control valve assembly near Ka'ōnohi Wells II site (southwest corner of Pearl Ridge Community Park) to connect the Pearl Harbor 277' and Metro 180' water systems. Install 16-inch mains and appurtenances along Ka'ōnohi St, from top of H1 Freeway overpass to Ka'ōnohi 277' reservoir site; along Moanalua Road, from control valve assembly at Pearl Ridge Park to Ka'ōnohi St; and along Ka'ōnohi St, from Moanalua Road to bottom of H1 Freeway overpass - approx. 4,000 lin. ft.	**P&E**	--	--	--	--	--	--	--	--	
	Const	--	--	--	--	--	--	--	--	
CapExp PUMPS TOTAL	**P&E**	$13,525	$4,750	$1,025	$0	$650	$3,000	$7,300	$1,550	
CapExp PUMPS TOTAL	**Land**	$1,500	$400	$0	$0	$0	$0	$0	$1,500	
CapExp PUMPS TOTAL	**Const**	$27,000	$4,000	$0	$0	$27,000	$0	$0	$0	
CapExp PUMPS SUBTOTAL		$42,025	$9,150	$1,025	$0	$27,650	$3,000	$7,300	$3,050	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
III. CAPACITY EXPANSION (CapExp)										
B. RESERVOIRS - CapExp										
1. 'ĀINA HAINA 170 0.5 MG RESERVOIR NO. 2										
Prepare Preliminary Engineering Study for second 0.5 MG reservoir, including land requirements at existing 'Āina Haina 170 reservoir site	**P&E**	--	$100	--	--	--	--	--	--	New reservoir to meet storage needs in the 170 system from 'Āina Haina to Kuli'ou'ou
Prepare Environmental Assessment	**P&E**	--	$150	--	--	--	--	--	--	
Prepare plans and specifications	**P&E**	--	$500	--	--	--	--	--	--	
Install 0.5 MG reservoir and appurtenances at existing 'Āina Haina 170 Reservoir site (TMK: 3-6-016:040)	**Const**	$3,300	--	--	--	--	$3,300	--	--	
2. WAIAWA 228' RESERVOIRS										
Prepare an environmental assessment and PIM for a site with 3 reservoirs (8.5 MG total capacity: 4 MG, 2.5 MG & 2 MG) and approximately 3,700 lf of influent and an effluent main connection to the 180' system	**P&E**	--	$400	--	--	--	--	--	--	
Prepare plans and specifications to install 4.0 MG, 2.5 MG, and 2.0 MG reservoirs and appurtenances (TMK: 9-6-004:024). Install 30-inch influent and effluent mains and appurtenances along the paved access road, from the reservoir to Cane Haul Road - approx. 3,700 lin. ft. Install 12-foot wide paved access road, from the reservoir to Cane Haul Road, approx. 3,500 lin. ft.	**P&E**	$5,000	--	--	--	--	$5,000	--	--	
Phase I: Install 4.0 MG reservoir and appurtenances (TMK: 9-6-004:024). Install 30-inch influent and effluent mains and appurtenances along the paved access road, from the reservoir to Cane Haul Road - approx. 3,700 lin. ft. Install 12-foot wide paved access road, from the reservoir to Cane Haul Road, approx. 3,500 lin. ft.	**Const**	$40,000	--	--	--	--	--	--	$40,000	
Phase II: Install 2.5 MG and 2.0 MG reservoirs and appurtenances (TMK: 9-6-004:024).	**Const**	--	--	--	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
3. KUWALE 242 RESERVOIR										
Prepare Environmental Impact Statement (EIS) and obtain Conservation District Use Permit (CDUP) and Public Infrastructure Map (PIM) Amendment	**P&E**	--	$325	--	--	--	--	--	--	
Prepare plans and specifications & CDUP approval.	**P&E**	$3,820	--	--	--	--	--	--	$3,820	
Install 4.0 MG reservoir and appurtenances at Kuwale Road near Wai'anae 242' Reservoir. Install 24-inch transmission main along Pāhe'ehe'e Road from Lualualei Homestead Road to Kuwale Road	**Const**	--	--	--	--	--	--	--	--	
CapExp RESERVOIRS TOTAL	**P&E**	$8,820	$1,475	$0	$0	$0	$5,000	$0	$3,820	
CapExp RESERVOIRS TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
CapExp RESERVOIRS TOTAL	**Const**	$43,300	$0	$0	$0	$0	$3,300	$0	$40,000	
CapExp RESERVOIRS SUBTOTAL		$52,120	$1,475	$0	$0	$0	$8,300	$0	$43,820	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
III. CAPACITY EXPANSION (CapExp)										
C. PIPELINES - CapExp										
1. KALĀKAUA AVENUE 16-INCH MAIN AND SARATOGA ROAD 12-INCH MAIN										
Install 16-inch main and appurtenances along Kalākaua Avenue from Ala Wai Bridge to Ka'iulani Avenue - approx. 5,260 lin. ft. Install 12-inch main along entire length of Saratoga Road - approx. 1,200 lin. ft.	**P&E**	$1,500	--	--	$1,500	--	--	--	--	
	Const	--	--	--	--	--	--	--	--	
2. HONOLULU DISTRICT 42-INCH MAINS - LILIHA TO MO'ILI'ILI AIS										
Prepare and submit an archaeological inventory survey (AIS) plan, and conduct and complete an AIS for the Honolulu District 42-Inch Mains - Liliha to Mo'ili'ili.	**P&E**	$900	--	--	$900	--	--	--	--	
3. KALĀKAUA AVENUE 16-INCH - BERETANIA STREET TO ALA WAI CANAL										
Prepare Environmental Assessment and Feasibility Study to determine the appropriate installation method(s) for the installation of 16-inch mains and appurtenances along Kalākaua Avenue from Beretania Street to Kapi'olani Boulevard, from Ala Wai Bridge to Ka'iulani Avenue, and from Monsarrat Avenue to Dillingham fountain - approx. 11,960 lin. ft.; and the installation of 12-inch main and appurtenances along Saratoga Road from Kalākaua Avenue to Kālia Road - approx. 1,200 lin. ft.	**P&E**	--	$819	--	--	--	--	--	--	
Install 20-inch main and appurtenances along Ala Wai Boulevard, at the intersection of McCully Street - approx. 215 lin. ft. Install 16-inch main and appurtenances along Kālakaua Avenue, from Beretania Street to Ala Wai Promenade; and along Ala Wai Promenade, from Kālakaua Avenue to McCully Street - approx. 4,800 lin. ft.	**P&E**	--	$750	--	--	--	--	--	--	
	Const	$8,000	--	--	--	$8,000	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
4. HONOLULU DISTRICT 42-INCH MAINS - LILIHA TO MŌ'ILI'ILI, PART II										
Install 42-inch mains and appurtenances along South Beretania Street, from Nu'uanu Avenue to Richards Street; along Richards Street, from South Beretania Street to South King Street; along South King Street, from Richards Street to South Street - approx. 4,880 lin. ft.	**P&E**	$8,500	--	--	--	--	--	$8,500	--	
	Const	--	--	--	--	--	--	--	--	
5. HONOLULU DISTRICT 42-INCH MAINS - LILIHA TO MŌ'ILI'ILI										
Prepare Route Feasibility Study	**P&E**	--	$140	--	--	--	--	--	--	Extends South trunk transmission pipeline for increased capacity and reliability in the Metro Low System
Prepare Environmental Assessment for selected transmission main routes and booster station site	**P&E**	--	$88	--	--	--	--	--	--	
Prepare Feasibility Study to determine the appropriate installation method(s) for Phase I and Phase II	**P&E**	--	$400	--	--	--	--	--	--	
Phase I - Install 42-inch mains and appurtenances along North King Street, from Dillingham Boulevard to North Beretania Street; and along North Beretania Street, from North King Street to Nu'uanu Avenue - approx. 2,830 lin. ft.	**P&E**	--	$3,000	--	--	--	--	--	--	
	Const	$50,000	--	--	--	--	--	--	$50,000	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
6. ALA MOANA BOULEVARD 24-INCH MAIN, ALA WAI CANAL TO KĀLAKAUA AVENUE										
Prepare plans & specifications	**P&E**	--	$1,000	--	--	--	--	--	--	
Install 24-inch mains and appurtenances along Ala Moana Boulevard, from Ala Wai Canal to Kalākaua Avenue - approx. 3,300 lin. ft. Install 12-inch mains and appurtenances along Ena Road, from Kalākaua Avenue to Ala Moana Boulevard; and along Kālia Road, from Ala Moana Boulevard to Paoa Place - approx. 1,770 lin. ft. Install 8-inch mains and appurtenances along Hobron Lane, from Ala Moana Boulevard to Ena Road; along Līpe'epe'e Street, from Ala Wai Boulevard to Hobron Lane; and along Kaio'o Drive, from Hobron Lane to Hobron Lane - approx. 3,165 lin. ft.	**Const**	$9,435	--	--	--	--	--	--	$9,435	
CapExp PIPELINES TOTAL	**P&E**	$10,900	$6,197	$0	$2,400	$0	$0	$8,500	$0	
CapExp PIPELINES TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
CapExp PIPELINES TOTAL	**Const**	$67,435	$0	$0	$0	$8,000	$0	$0	$59,435	
CapExp PIPELINES SUBTOTAL		$78,335	$6,197	$0	$2,400	$8,000	$0	$8,500	$59,435	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
III. CAPACITY EXPANSION (CapExp)										
D. TREATMENT - CapExp										
1. MILILANI WELLS II GAC INSTALLATION										
Prepare plans and specifications	**P&E**	--	$800	--	--	--	--	--	--	
Land acquisition for the installation two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping.	**Land**	--	--	--	--	--	--	--	--	
Install two (2) new GAC vessels, backwash tank system, including pump and filter setup, chlorinator infrastructure and piping.	**Const**	$10,000	--	$10,000	--	--	--	--	--	
CapExp TREATMENT TOTAL	**P&E**	$0	$800	$0	$0	$0	$0	$0	$0	
CapExp TREATMENT TOTAL	**Land**	$0	$0	$0	$0	$0	$0	$0	$0	
CapExp TREATMENT TOTAL	**Const**	$10,000	$0	$10,000	$0	$0	$0	$0	$0	
CapExp TREATMENT SUBTOTAL		$10,000	$800	$10,000	$0	$0	$0	$0	$0	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
III. CAPACITY EXPANSION (CapExp)										
E. FACILITIES - CapExp										
F. KALAELOA SEA WATER DESALINATION FACILITY										
Post-Treatment and Renewable Energy Study to address potential water quality changes in the distribution system and evaluate renewable energy for the facility (TMK: 9-1-031:028)	**P&E**	--	$300	--	--	--	--	--	--	
Design-Build-Operate-Maintain (DBOM) contract for a 1.7 MGD desalination facility with limited oversizing for future expansion. Install 16-inch transmission main along the project boundary from desalination facility to Ola'i Street, along Ola'i Street from end to Kalaeloa Boulevard, along Kalaeloa Boulevard from Ola'i Street to the existing 16-inch main near the Northern end of TMK: 9-1-031:022- approx. 4,800 lin. ft.	**P&E**	--	$3,516	--	--	--	--	--	--	
	Const	$12,000	$53,000	--	$12,000	--	--	--	--	
	Const	--	$25,000	--	--	--	--	--	--	
	Const	$57,000	--	$57,000	--	--	--	--	--	
Provide project management services to monitor DBOM progress, plans review and RFI response.	**P&E**	--	$5,860	--	--	--	--	--	--	
Abrogation of Desal Property Deed and Acquisition of Ola'i Street Roadway Lot	**Land**	$6,310	--	$6,310	--	--	--	--	--	

BOARD OF WATER SUPPLY CAPITAL IMPROVEMENT PROGRAM (FY 2026 - 2031)

PROJECT	EXPEND TYPE	(FY26-31) TOTAL ($ 000)	PRIOR APPNS ($ 000)	Fiscal Year (FY) ($ 000) 2026	2027	2028	2029	2030	2031	REMARKS
CapExp FACILITIES TOTAL	P&E	$0	$9,676	$0	$0	$0	$0	$0	$0	
CapExp FACILITIES TOTAL	Land	$6,310	$0	$6,310	$0	$0	$0	$0	$0	
CapExp FACILITIES TOTAL	Const	$69,000	$78,000	$57,000	$12,000	$0	$0	$0	$0	
CapExp FACILITIES SUBTOTAL		$75,310	$87,676	$63,310	$12,000	$0	$0	$0	$0	
P&E CAPACITY EXPANSION TOTAL	P&E	$33,245	$22,898	$1,025	$2,400	$650	$8,000	$15,800	$5,370	
Land CAPACITY EXPANSION TOTAL	Land	$7,810	$400	$6,310	$0	$0	$0	$0	$1,500	
Const CAPACITY EXPANSION TOTAL	Const	$216,735	$82,000	$67,000	$12,000	$35,000	$3,300	$0	$99,435	
FY 2026 - 2031 CAPACITY EXPANSION (CapExp) TOTAL		$257,790	$105,298	$74,335	$14,400	$35,650	$11,300	$15,800	$106,305	
P&E TOTAL	P&E	$161,875	$146,341	**$20,925**	**$32,910**	**$21,310**	**$30,010**	**$33,800**	**$22,920**	
Land TOTAL	Land	$7,810	$400	**$6,310**	**$0**	**$0**	**$0**	**$0**	**$1,500**	
Const TOTAL	Const	$999,120	$249,758	**$163,850**	**$190,850**	**$207,725**	**$155,765**	**$119,270**	**$161,660**	
FY 2026 - 2031 TOTAL		**$1,168,805**	**$396,499**	**$191,085**	**$223,760**	**$229,035**	**$185,775**	**$153,070**	**$186,080**	
Construction Cost Index Adjustment		**$136,931**	$105,665	$21,183	$19,085	$31,159	$23,365	$17,890	$24,249	
Contract Adjustment Account		**$155,025**	$227,502	$71,060	$23,965	$15,000	$15,000	$15,000	$15,000	
FY 2026 - 2031 TOTALS (with Adjustments)		**$1,460,761**	**$729,666**	**$283,328**	**$266,810**	**$275,194**	**$224,140**	**$185,960**	**$225,329**	

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ITEM FOR INFORMATION NO. 1

"April 27, 2026

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

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

Chair and Members:

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

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

Respectfully Submitted,

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

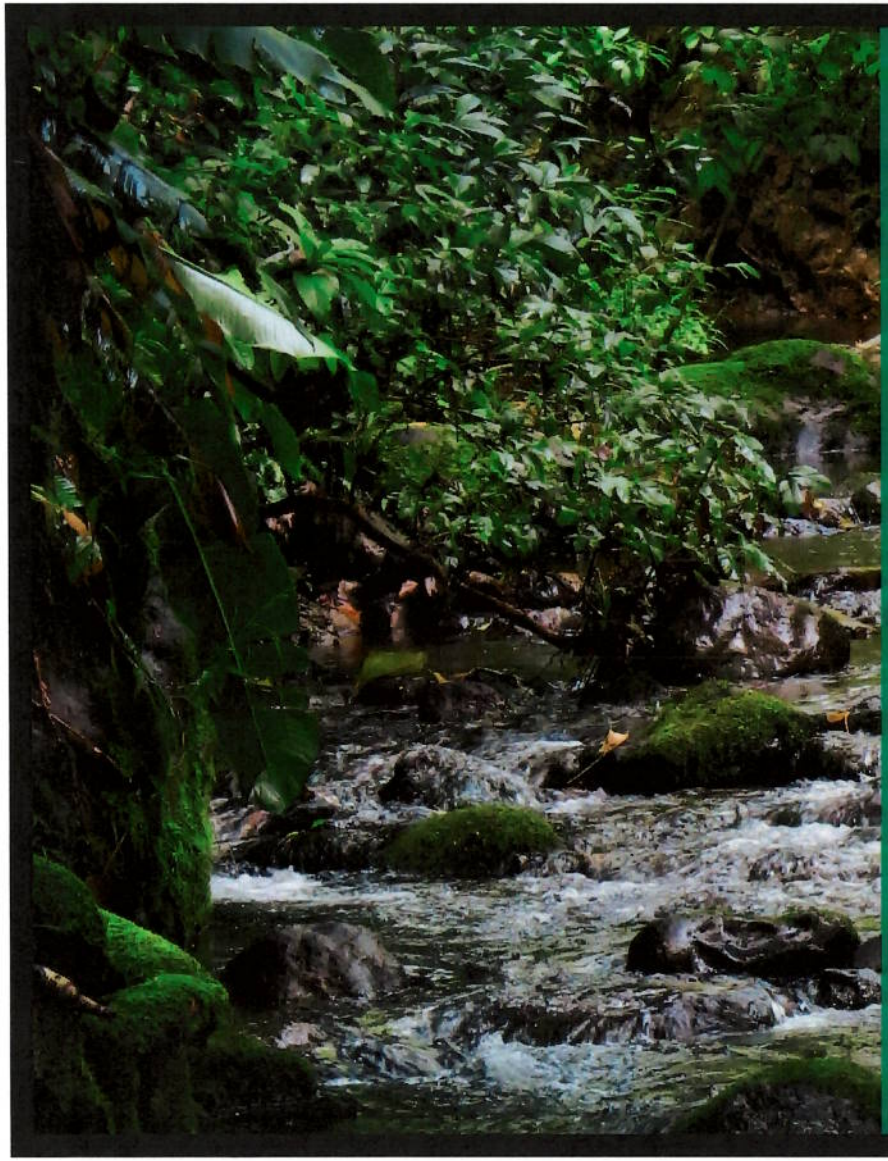
Attachment"

The foregoing was for information only.

DISCUSSION: Joyce Le, Acting Departmental Staff Executive Assistant, Office of the Manager and Chief Engineer, gave the report.

Manager Lau reported a recent meeting the BWS had with the National Academy of Science, Engineering, and Medicine (NASEM).

Ms. Joyce Le shared that, at the same time the EPA released its report on the military's water system, the NASEM also released its assessment report on the impacts of Jet Propellant 5 (JP-5) on Red Hill residents. The NASEM assessment recommended that Red Hill-affected members be provided with continuous support and that additional studies be conducted to determine the impact(s) of jet fuel on human health. The NASEM concluded that more time is needed to monitor long-term effects and to provide support to impacted families.



APRIL 2026
RED HILL UPDATES

boardofwatersupply.com

RECENT EVENTS

March 10

- Red Hill Subject Matter Expert Meeting

March 19

- Community Representation Initiative Meeting

April 9

- Fuel Tank Advisory Committee Meeting

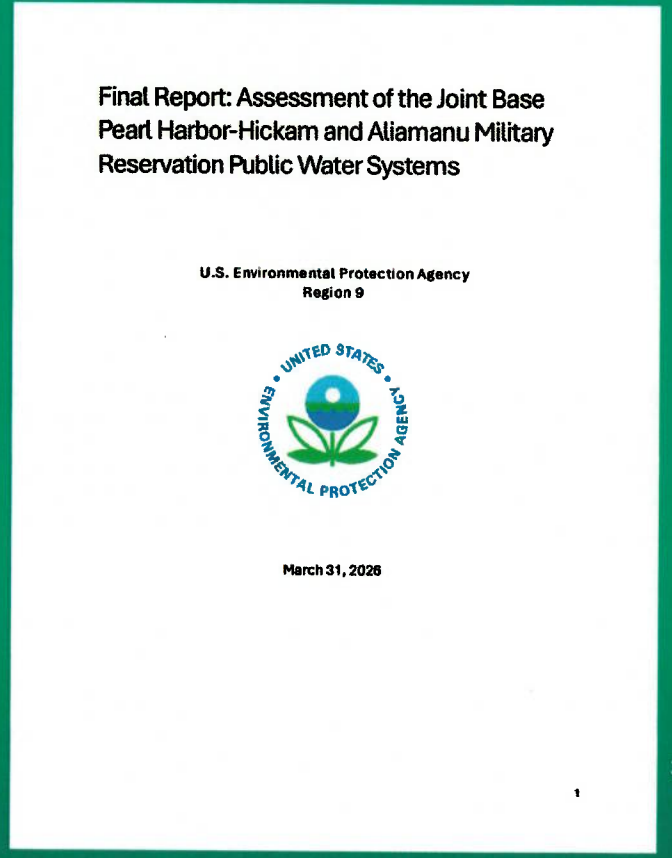
April 15

- Navy Closure Task Force –Red Hill Open House

FINAL REPORT ON ASSESSMENT OF JOINT BASE PEARL HARBOR-HICKAM (JBPHH) WATER SYSTEM

- The Environmental Protection Agency (EPA) and Hawai'i Department of Health (DOH) concluded that assessments of the JBPHH and Aliamanu Military Reservations water systems showed no fuel contamination remains.
- "EPA supports the public water systems' return to routine Safe Drinking Water Act compliance monitoring under the purview of DOH."
- Recordings of EPA Webinar on this report can be found at: https://www.epa.gov/red-hill/webinars

Source: Environmental Protection Agency



Final Report: Assessment of the Joint Base Pearl Harbor-Hickam and Aliamanu Military Reservation Public Water Systems

U.S. Environmental Protection Agency
Region 9

March 31, 2026

1

UPDATES FROM NAVY CLOSURE TASK FORCE –RED HILL

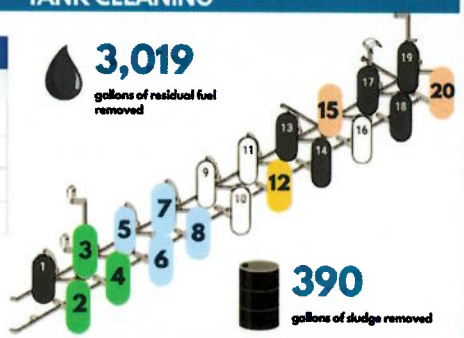
Navy Closure Task Force-Red Hill Operations Dashboard

TANK CLEANING

Status	
Step	Tank(s)
1	12
2	15, 20
3	2, 3, 4
4	5, 6, 7, 8

*Gray tanks were empty and not in service before defueling

3,019 gallons of residual fuel removed



390 gallons of sludge removed

Tank Cleaning Steps

Step 1: Preparation Approximately 2-3 months	• Isolate tank and disconnect piping • Install tank ventilation equipment • Inject water to soften sludge and remove flowable sludge • Forced air degassing of the tank
Step 2: Solid Sludge Removal Approximately: 2-3 months	• Structural inspection and repairs/modifications • Remove solid sludge • Install and load test booms and baskets
Step 3: Pressure Washing Approximately: 1-2 months	• Pressure wash with up to 3% Simple Green solution • Contractor quality control and Government quality assurance • Third party independent cleanliness validation in accordance with approved plan • Submit reports for EPA and DOH concurrence of cleanliness
Step 4: Tank Decommissioning Approximately: 1-2 months	• Demobilize contractor equipment • Secure the manways with lockable hatches • Prepare for post closure monitoring • Submit closure report to EPA and DOH for approval

www.navyclosuretaskforce.navy.mil

Updated: Mar. 27, 2026

Navy Closure Task Force-Red Hill Operations Dashboard

PIPELINE REMOVAL

F24 Fuel

480 gallons of residual fuel removed

91% of pipeline clean

JP5 Fuel

1,298 gallons of residual fuel removed

96% of pipeline clean

F76 Fuel

734 gallons of residual fuel removed

91% of pipeline clean

2,512 total gallons of residual fuel removed as part of pipeline cleaning efforts

Pipeline Removal Process

01 Preparation
- Install supplemental utilities
- Install train engines and cars
- Environmental Protection Plan approved
- Multiple Work Plans approved
- Demolition Plan approved
- Abatement Plans approved
- Asbestos abatement
- Work plans for demolition and environmental protection
- Conduct spill response exercises

02 Drain & Clean
- Remove valves
- Drain Residual fuel
- Cable pigging*
- Air pigging*

*Pigging: Process of cleaning or inspecting pipelines

03 Cut & Remove
- Cut 9' pipe sections
- Lower pipe sections
- Transport to Adit 2 for staging

04 Transport & Recycle
- Transport pipes to JBPHH staging area
- Transport to the U.S. mainland
- Final disposition

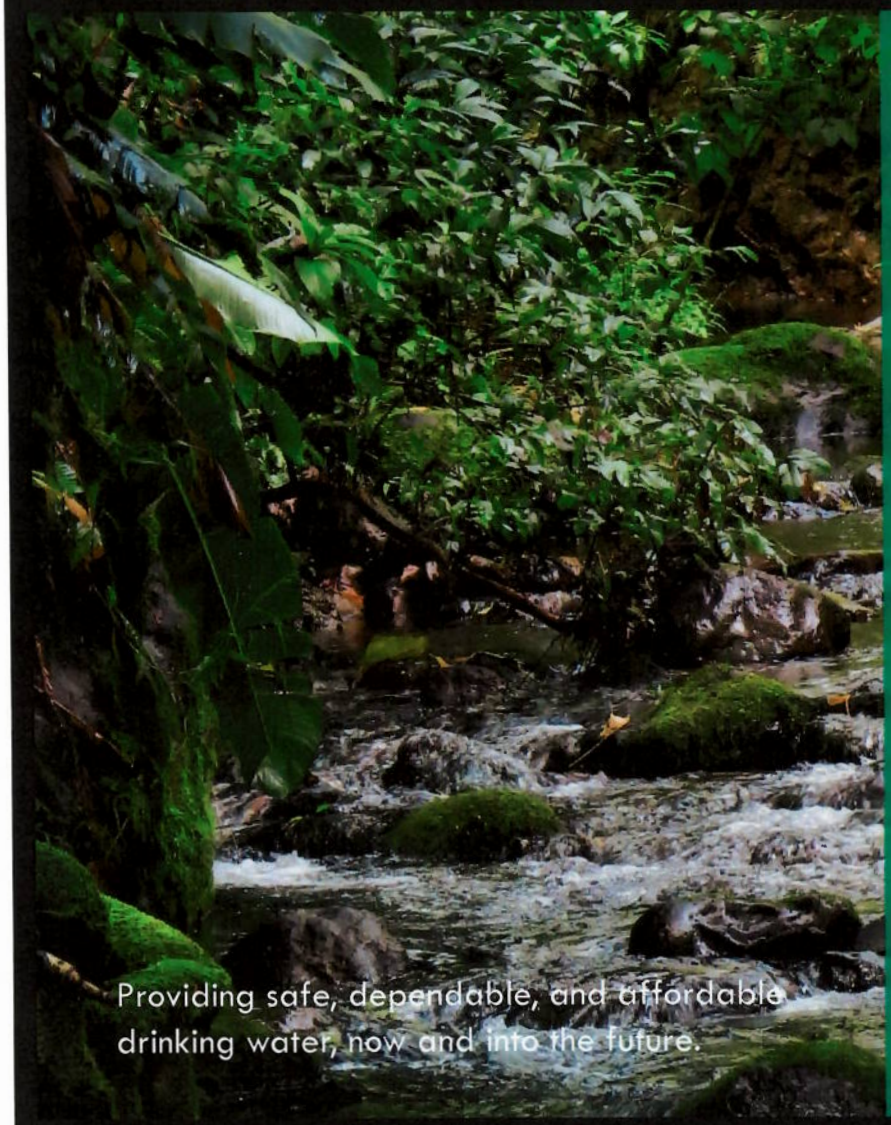
www.navyclosuretaskforce.navy.mil

Updated: Mar. 27, 2026

Source: Navy Closure Task Force –Red Hill

2026 LEGISLATION UPDATES

- ~~House Bill (HB) 1987 –Relating to the Fuel Tank Advisory Committee~~
- ~~Senate Bill (SB) 2093 –Relating to the Fuel Tank Advisory Committee~~
- ~~HB 1926 –Relating to Red Hill~~ (Included into HB 1800)
- ~~SB 2475 –Relating to Red Hill~~
- ~~SB 2046 –Relating to Underground Storage Tanks~~
- SB 2095 –Relating to Environmental Protection
- ~~House Concurrent Resolution (HCR) 149 –Urging the United States Navy to Provide Consistent, In-Person Participation at Community Representation Initiative Meetings Related to Red Hill Remediation Efforts~~
- HCR 186 –Urging the United States Department of Defense and Defense Health Agency to Extend the Renewal Period For Secretarial Designee Health Care Authorization Related to the Red Hill Water Contamination Crisis and to Improve Health Care Access for Affected Individuals
- HCR 200 -Urging The United States Department Of Defense To Reassess Prior Determinations And Closure Decisions Under The Comprehensive Environmental Response, Compensation, And Liability Act In Light Of Evolving Scientific Understanding Of Per- And Polyfluoroalkyl Substances And Recent Federal Hazardous Substance Designations.



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

MAHALO!

April 2026 Red Hill Updates

ITEM FOR INFORMATION NO. 2

"April 27, 2026

OVERVIEW OF METERING & WATER SERVICE REQUIREMENTS UNDER BOARD OF WATER SUPPLIES RULES AND REGULATIONS, AND PROCEDURES

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

Subject: Overview of Metering and Water Service Requirements Under Board of Water Supply Rules and Regulations, and Procedures

Jennifer Elflein, Program Administrator, Customer Care Division, will provide an overview of metering and water service requirements under Board of Water Supply Rules and Regulations, and procedures.

Respectfully Submitted,

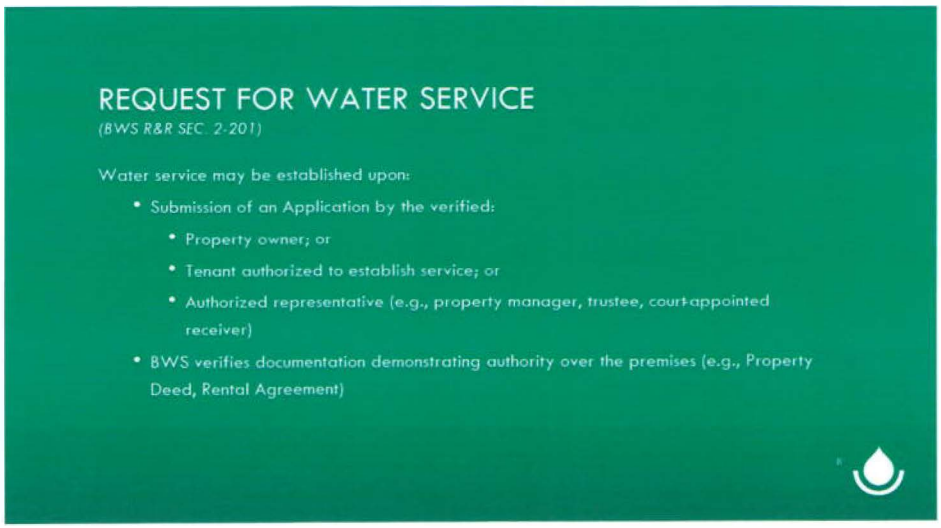
/s/ ERNEST Y. W. LAU, P.E
Manager and Chief Engineer

Attachment"

The foregoing was for information only.

DISCUSSION: Jennifer Elflein, Program Administrator, Customer Care Division, gave the report.

Chair Anthony expressed appreciation for the brief education on how the BWS water meter and billing process works. He referred to slide 8 and asked who could apply for water service for a multi-plex home with one master.



Ms. Jennifer Elflein responded that the property owner or property manager would be the only people authorized to apply for water service. The BWS would require documentation to confirm their identity. If a business is responsible for the property, the BWS will verify that the business is legitimately registered with the State Department of Commerce and Consumer Affairs.

Chair Anthony inquired about a Condominium Property Regime (CPR) property with one master meter serving four different owners. Can any of the four tenants apply for water service as the account owner?

Ms. Elflein commented that such circumstances are not very common. However, to verify that she understood Chair Anthony, she reiterated his scenario: a single master meter serving multiple homes on the private property; could each owner apply for service? Ms. Elflein replied, yes, provided they submit documentation indicating that the person is the property owner. She added that the BWS does not get involved in any issues between the private property owners and homeowners.

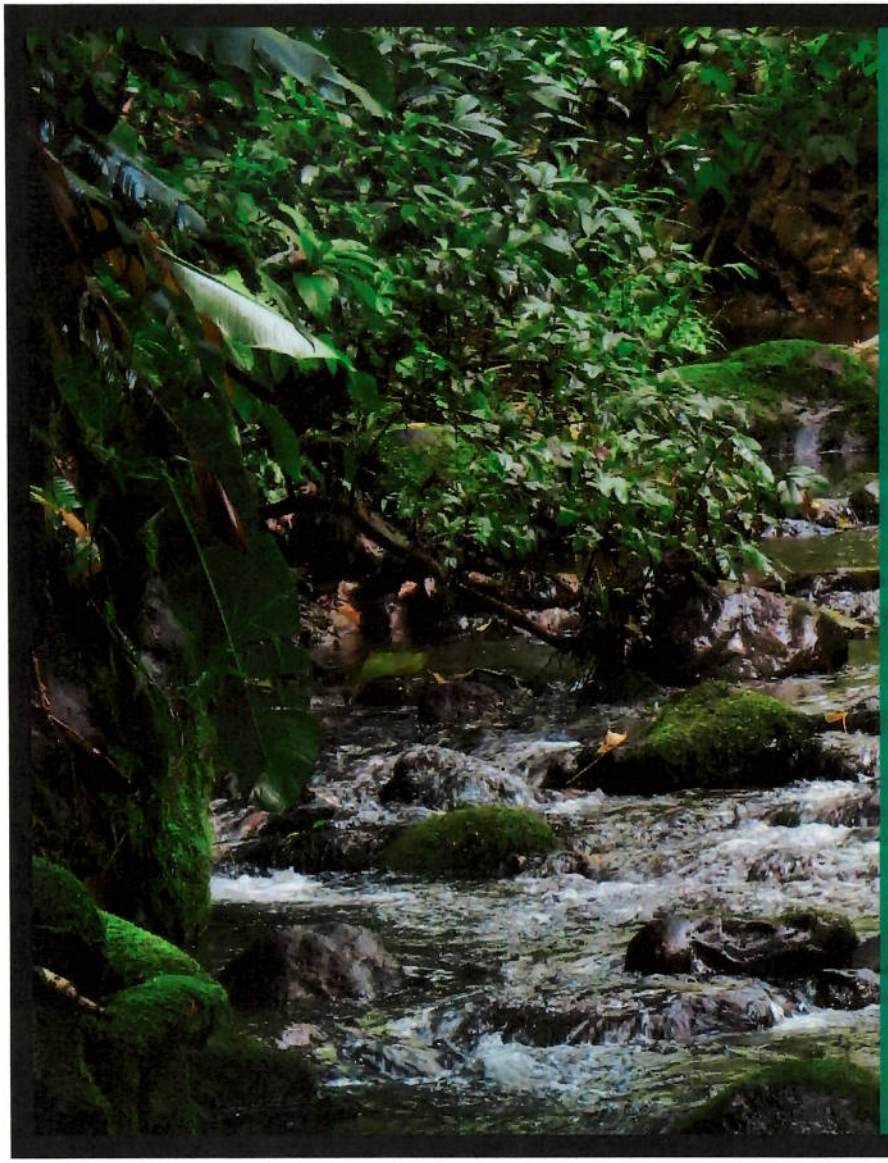
Chair Anthony commented that Ms. Elflein stated that such circumstances do not happen often. He asked if it is due to Homeowners Associations (HOA).

Ms. Elflein responded that, in the 12 years of experience at the BWS, that is correct.

Chair Anthony mentioned a situation with a private property that had one meter serving 600+ homes, resulting in a large bill due to leaks within the property. The BWS could not see past the meter to understand the complexity of the situation.

Ms. Elflein explained that, in that particular situation, there was an HOA, and the property manager is responsible for the day-to-day activities of that property.

Chair Anthony stated that information about obtaining water service can be found on the BWS's website.



OVERVIEW OF METERING & WATER SERVICE REQUIREMENTS

UNDER BWS RULES & REGULATIONS & PROCEDURES

Jennifer Elflein

April 27, 2026

www.boardofwatersupply.com

PURPOSE OF PRESENTATION

This presentation is intended to:

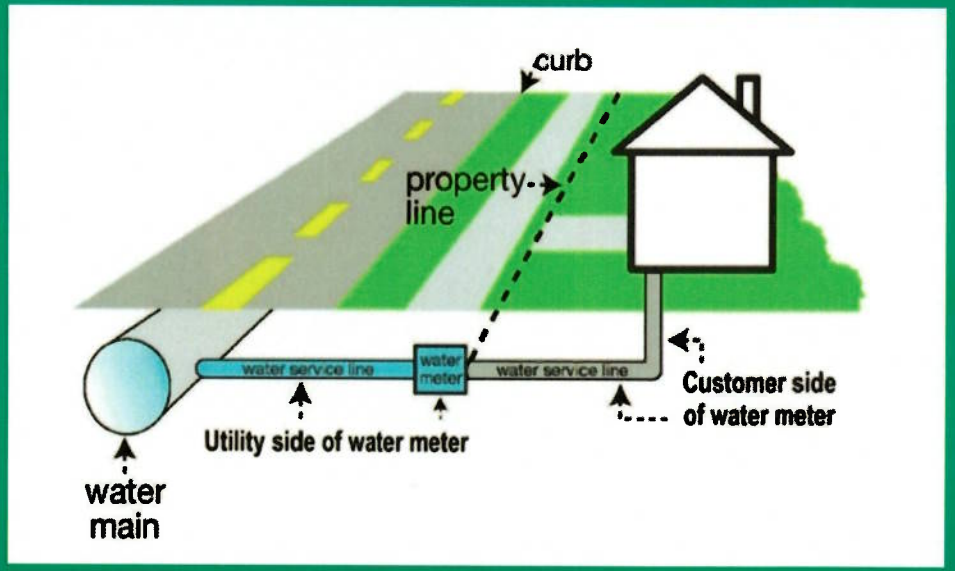
- Provide an overview of how water service is established and administered under BWS Rules & Regulations.
- Explain how water meters function and the limits of BWS jurisdiction.
- Clarify who may apply for service and how accounts are opened or closed.

METERING & WATER SERVICE REQUIREMENTS UNDER BWS RULES & REGULATIONS AND PROCEDURES

- BWS Rules & Regulations establish the legal and operational framework for providing water service. Operational procedures are developed to implement those rules.
- Chapter II: Water Service to Consumers has 17 Sections
  - Sec. 2-201: Application for Water Service
  - Sec. 2-202: Installation of Water Service
  - Sec. 2-203: Meter Reading and Rendering of Bills
  - Sec. 2-208: Meter Tests and Adjustment of Bills
  - Sec. 2-213: Cross-Connection Control and Backflow Prevention

BWS WATER METER

- Water meters are installed in the public right-of-way. (BWS R&R *Section 2-202*)
- BWS delivers water to the meter only.
- Customer is responsible for connecting the private property piping to the BWS meter. BWS' jurisdiction ends at the property line. (BWS R&R *Section 2-202*)
- The meter measures the total water flowing through the meter for billing purposes. (BWS R&R *Section 2-203*)
- BWS does not track how water is distributed within private property. *(BWS R&R Sec 2-208)*



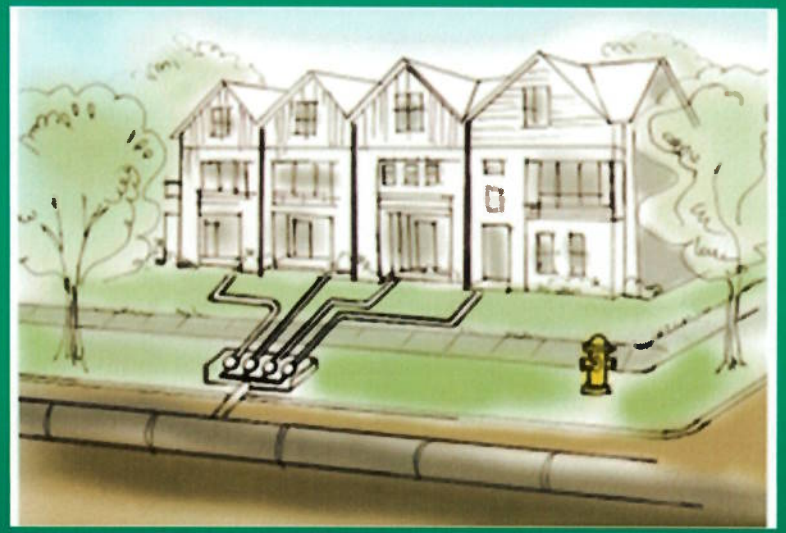
METERING EQUIPMENT

METER BODY

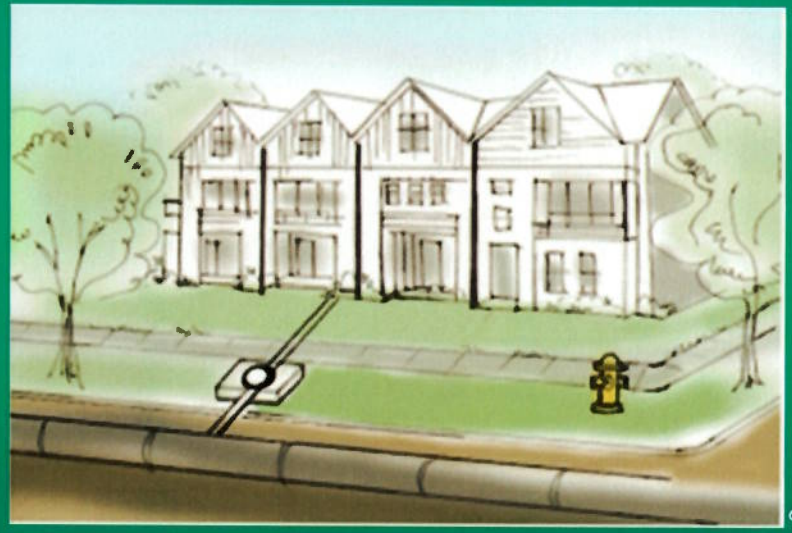
REGISTER

METERING OPTIONS

EACH DWELLING SERVED BY ITS OWN METER



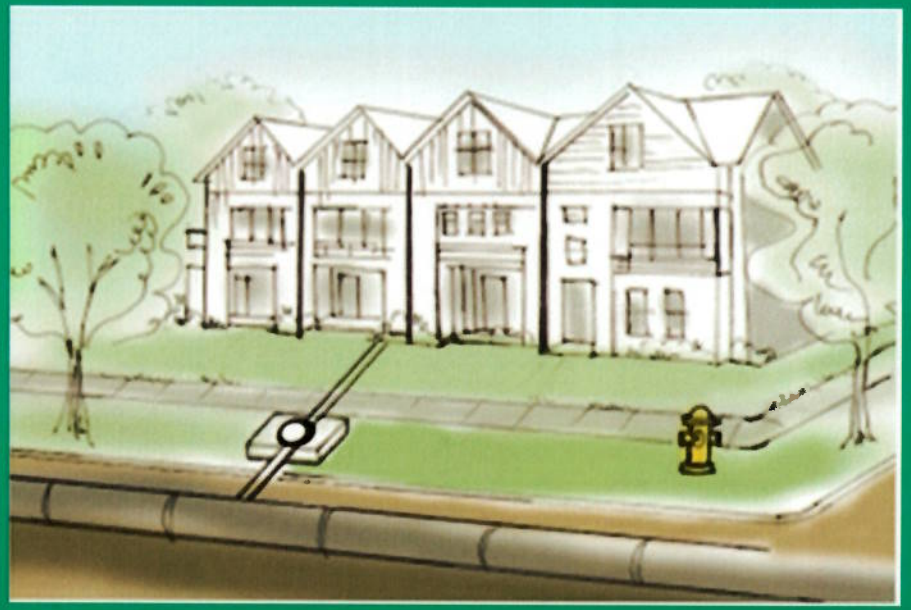
MULTIPLE DWELLINGS SERVED BY A SINGLE METER



MASTER METER EXPLANATION

In a master-metered property:

- Water is delivered through one meter serving the entire building.
- Internal distribution of water to units is controlled by the property owner or manager.



REQUEST FOR WATER SERVICE

(BWS R&R SEC. 2-201)

Water service may be established upon:

- Submission of an Application by the verified:
  - Property owner; or
  - Tenant authorized to establish service; or
  - Authorized representative (e.g., property manager, trustee, court-appointed receiver)
- BWS verifies documentation demonstrating authority over the premises (e.g., Property Deed, Rental Agreement)

APPLICATION PROCESS

- Ensure compliance with BWS' Rules & Regulations:
  - No outstanding debt.
  - No unauthorized use of water or meter tampering.
  - Collection of a security deposit.
  - Backflow preventor, if applicable. *(BWS R&R Sec. 2-213)*
- BWS may refuse service where outstanding charges exist, or in order to protect itself against fraud, abuse or unauthorized use of water. (BWS R&R Sec. 2-201(4) and 2-205(2))
- Temporary water service may be provided in limited circumstances while an application is under review. Such service is conditional and subject to termination if the application requirements are not satisfied. All water used is billable.

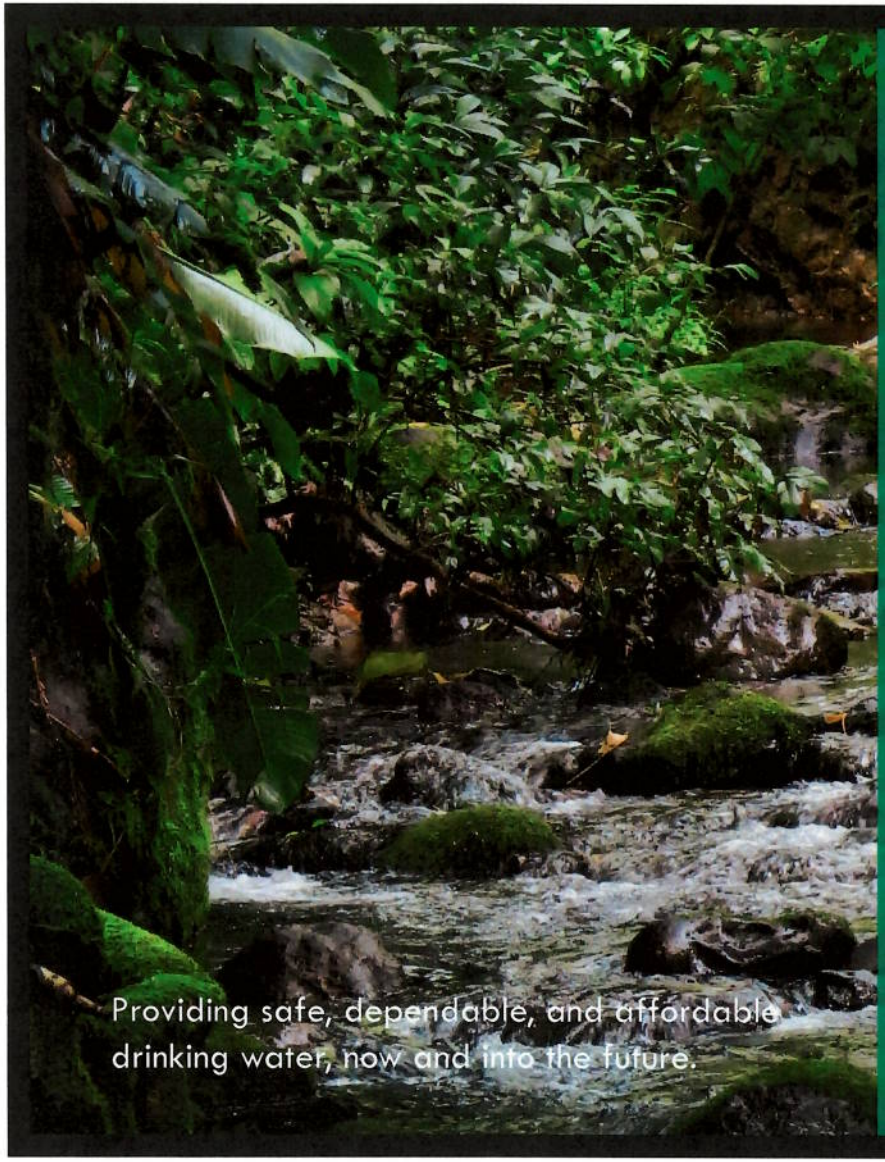
TERMINATION OF WATER SERVICE

(BWS R&R SEC. 2-201)

- Water service may be terminated upon request by the account holder or authorized representative.
- Examples include:
  - Property owner (if the owner holds the account)
  - Tenant (if the tenant holds the account for the premises served by the meter)
  - Authorized property manager, trustee, or court-appointed receiver
- BWS will:
  - Verify the requested termination date;
  - Issue a final bill; and
  - Apply or refund any applicable deposit.

SUMMARY

- BWS delivers water to the meter.
- The account holder is responsible for the premises served by that meter.
- Internal plumbing systems are privately owned and controlled.
- Water service is administered in accordance with the BWS Rules and Regulations.



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

Mahalo!

BOARD OF WATER SUPPLY

Overview of Metering & Water Service Requirements
Under BWS Rules & Regulations & Procedures

Jennifer Elflein
(808) 748-5300
www.boardofwatersupply.com

March 23, 2026

ITEM FOR INFORMATION NO. 3

"April 27, 2026

BRIEFING ON RECENT KONA LOW STORMS' IMPACTS AND RESPONSE

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

Chair and Members:

Subject: Briefing on Recent Kona Low Storms Impacts and Response

Ernest Lau, Manager and Chief Engineer, will give a briefing on the recent Kona Low Storms' impacts and response.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION: Ernest Lau, Manager and Chief Engineer, gave the report.

After presenting slide 11 of the presentation, Chair Anthony asked whether 65 facilities were without power.

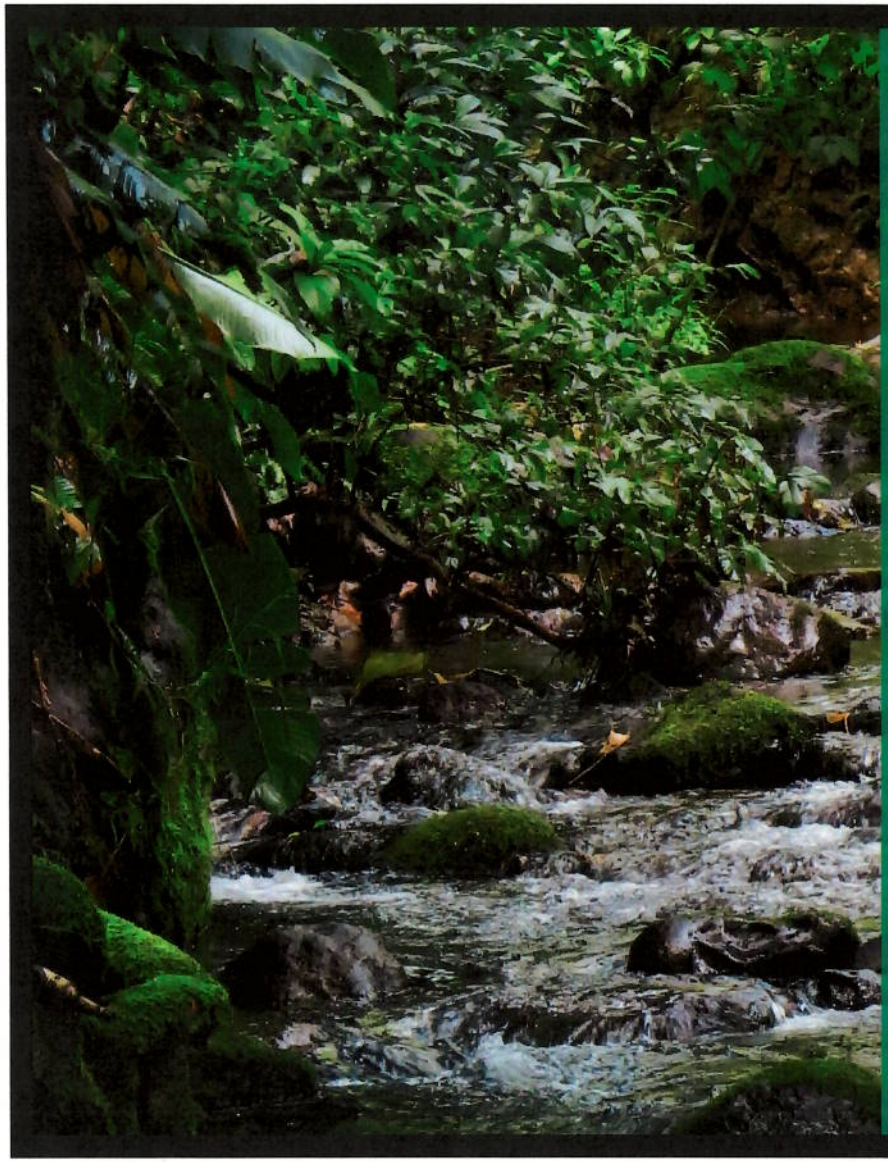
Manager Lau responded that at the peak of the first Kona Low storm, over 100,000 customers, including BWS, were without power. He mentioned that he understands Hawaiian Electric Company (HECO) shut off power because of concerns that its infrastructure could spark a fire that could affect lives. This chain of events has pointed out the vulnerability that needs to be addressed.

At the end of the presentation, Board Member Laupola inquired about the precautionary measures to issue the boil water notice and who makes the decision.

Manager Lau replied that the Public Water System Operator makes the call in consultation with the Department of Health (DOH). He explained that the BWS decided to issue the boil water notice as a precaution, not knowing the full extent, due to possible contaminated water that could have entered the BWS water system after it ran dry. Manager Lau shared that the operators of the private system servicing Otake Camp and Mill Camp also issued a boil water notice after consulting with the DOH, Safe Drinking Water Branch.

Chair Anthony thanked the staff for their diligence. He stated that the conversations about the Wahiawa Dam during the Kona Low storm were of great concern; however, he stated that BWS is not responsible for it. The intensity of the back-to-back Kona Low storms was greater than anticipated, and therefore, we need to prepare for the next emergency. In preparation for the need to obtain more tools, whether it is portable potable tankers or generators or grants, the BWS must do all it can to ensure that the community's needs are met.

Manager Lau stated our past is no longer a good predictor of what the future could bring.



BRIEFING ON RECENT KONA LOW STORMS' IMPACTS AND RESPONSE

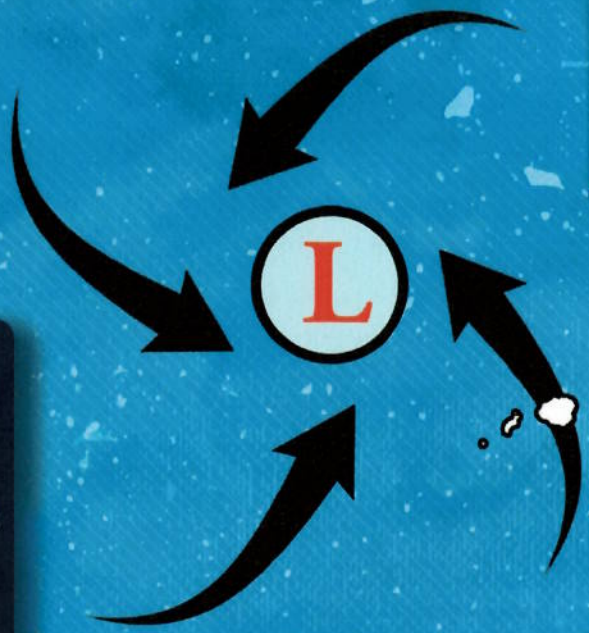
Ernest Y.W. Lau, P.E

April 27, 2026

boardofwatersupply.com

WINTER'S FURY
Kona Lows

- A kona low is a type of seasonal subtropical cyclone and tends to form in the winter months.
- The word "kona" means "leeward" in Hawaiian, which refers to the side of an island that is usually sheltered from trade winds and rainfall.
- Instead, kona lows bring warmer, moisture-rich winds to the islands from the south to southwest, which can lead to torrential rainfall.



Converging warm, moist air creates heavy rain, flash flooding, isolated severe t-storms

1 or 2 Kona Lows affect Hawaii most years.

weather.gov

NOAA

BWS PLAN FOR TROPICAL CYCLONES

- Fill all reservoirs to ensure maximum amount of stored water in case of extended power failure.
- Top off vehicle and generator fuel.
- Pre-position mobile generators.
- Stand up Department Operations Center (DOC) at Beretania and/or Manana when the City's Emergency Operations Center (EOC) goes to full activation.

BWS PLAN FOR TROPICAL CYCLONES

- If necessary, move vehicles from Waiʻanae Yard out of inundation zone.
- Confirm personnel to staff EOC, DOC, Manana DOC, base yards and call center; shifts to be 12 hours long.
- Inform all employees that they will be called in when "all clear" given since all BWS employees are Disaster Response Workers.

BWS PLAN FOR TROPICAL CYCLONES

- Open call center during emergency to answer questions and relay information back to EOC for situational awareness.
- Check water levels at Nu'uanu 1, Nu'uanu 4 and Mauna Olu.
- If need to lower the water level at Nu'uanu 1 prior to the onset of the cyclones, start siphons and pumps.

KONA LOW STORMS 1 & 2 TIMELINE

- 3/9-10/26 – Flood Watches then Flash Flood Warnings Issued for Kona Low Storm 1
- 3/12-15/26 – Widespread flooding w/ HECO outages peak at about 123,000 customers
- 3/16-18/26 – No flood watch, but ground is saturated & streams remain elevated
- 3/19/26 – Flood Watch reissued for Kona Low Storm 2
- 3/20-21/26 – Flash flood warnings issued w/ HECO outages for about 6,500 customers
  - Evacuations: Haleʻiwa & Waialua
  - Wahiawā Dam failure concern
- 3/22/26 – Flood watch ends

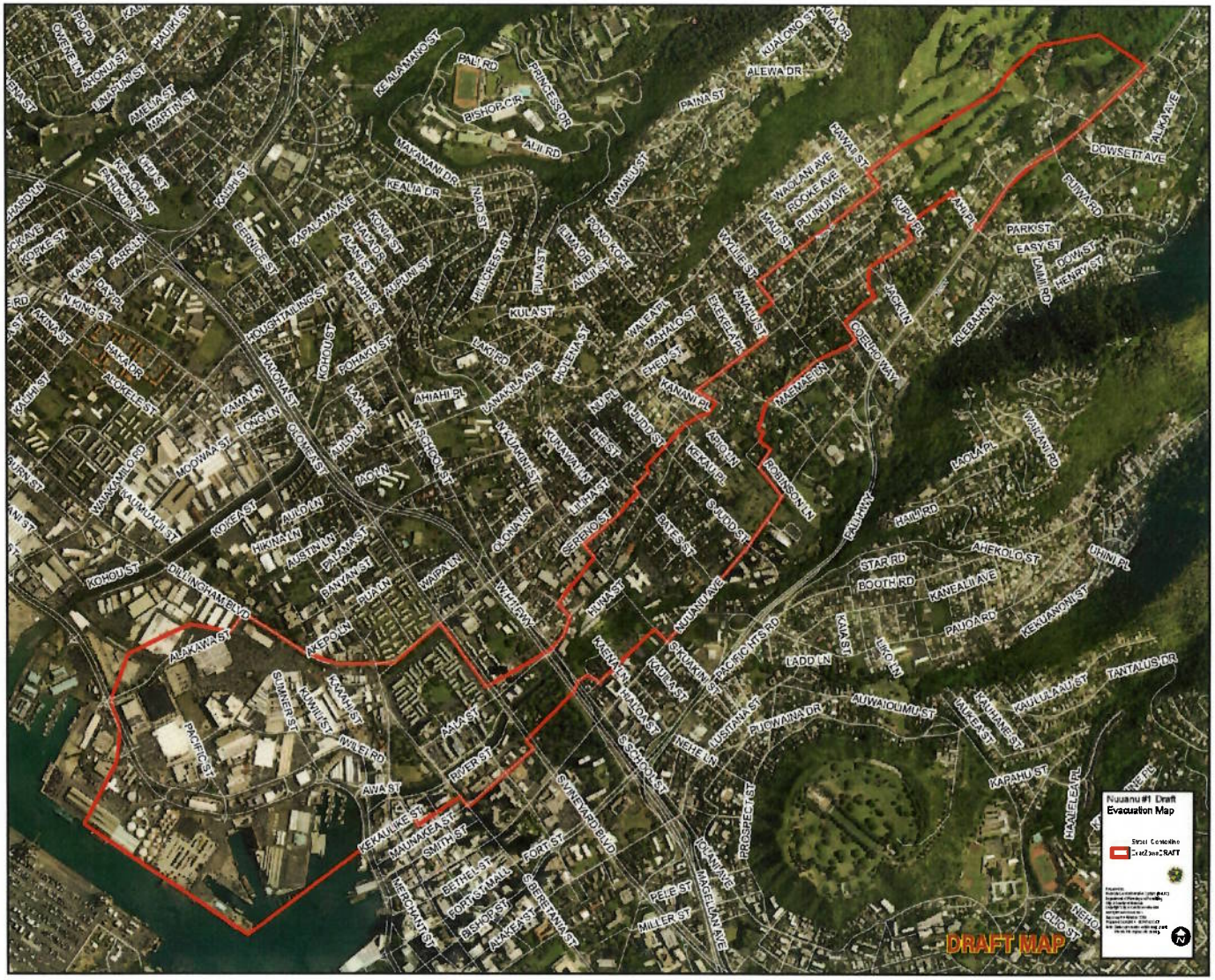
HECO OUTAGES

- 3/13/26: About 123,000 customers were without power in various locations across O‘ahu.
- 3/21/26: About 6,500 customers were without electricity, including 6,400 in the North Shore area.

- Kona Low I Power Outage Map from 3/13/26

NU‘UANU RESERVOIR NO 1

- Nu‘uanu Reservoir No. 1 has no outlet works other than its emergency spillway.
- BWS normally keeps the reservoir empty.
- BWS protocol is to drain the reservoir as quickly as possible using siphons and pumps prior to the onset of a storm or expected heavy rainfall.



Board of Water Supply

NUUANU RESERVOIR NO. 1 DAM EMERGENCY EVACUATION PLAN

If evacuation should become necessary, the **City Department of Emergency Management (DEM)** would notify residents in the flood zone of the potential need to evacuate their properties due to possible flooding from Nuuanu Reservoir No. 1

BWS constantly monitors and siphons excess water from the reservoir to maintain storm flow capacity. Occasionally, due to severe weather events, rainfall rates could exceed the standard siphoning capacity. In that case, additional pumps can be started to reduce the water level.

In the event that water levels reach 1 ft. below the top of the dam, a mandatory evacuation notice will be issued to downstream areas. This evacuation could affect as many as 10,000 residents. **(Please see the red-outlined area on the map.)** Potential shelter locations would be identified.

Disclaimer: Information shown on this map is approximate and should be used as a guideline for emergency response. While the best available data has been utilized as inputs into a dam failure computer model, the final modeled product results should be interpreted as "best available estimates" of the inundation areas. The computer model assumes that the dam fails from a defect in the embankment structure, while full at maximum capacity, under dry (no rain) conditions and no discharge through the spillway. Dam breaches during flooding or other hazard events could differ or be larger than the area identified.

Should evacuations be initiated, listen to instructions from your local emergency management/civil defense agency, and directives from the police and fire departments. Based on the anticipated dam hazard or multiple hazards facing the community, this evacuation area may be altered by the local emergency management agency. The dam evacuation area is different from FEMA flood zone maps or the Tsunami Evacuation Maps (those can be viewed at: gis.hawaiicp.org). Although the modeled dam failure area utilized to create the evacuation zone maps were conducted by PDC for the State DLNR, the displayed evacuation map is the product and property of the local County Emergency Management or Civil Defense Agency. Any usage or alteration of this map should be cleared with that respective county agency.

For more information: contact local Emergency Management/Civil Defense Agency or visit: http://dlnreng.hawaii.gov/dam

BOARD OF WATER SUPPLY
City & County of Honolulu
630 South Beretania Street
Honolulu, HI 96843-0001

Inquiries & Information: (808) 748-5041
Water Emergencies: (808) 748 5000 Ext. 1 (24 hours)
Office Hours: Monday – Friday, 7:45 a.m. to 4:30 p.m.
Information: www.boardofwatersupply.com
Email: contactus@hbws.org

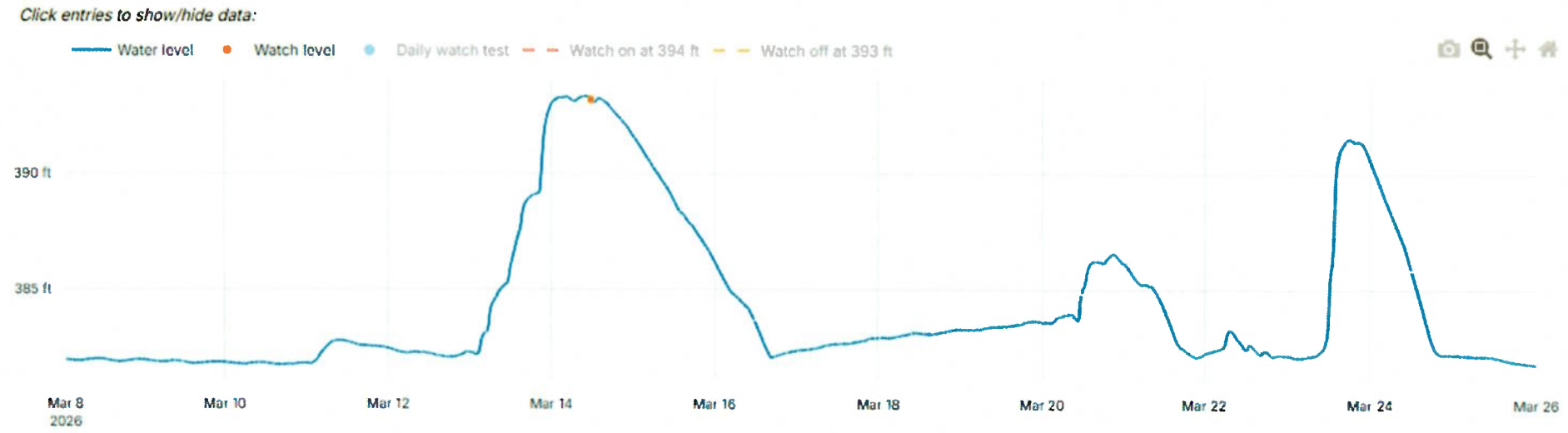
NU‘UANU RESERVOIR NO 1 DAM LEVELS 3/8-26/26

STATION: OA-0154: Nuuanu No 1

PLOT DATA FROM: 03/08/2026 → 03/25/2026 30d 7d

Water Level

SENSOR TYPE: Pressure



WATER SYSTEM IMPACTS

- Storm watch procedures were implemented prior and during both events which includes pre-deployment of generators and topping off reservoirs to provide water in event of a loss of power to operate pumps and booster stations
- Generators deployed at Waialua, Waialeʻe, and Opana wells
- Waipiʻo Heights 395 Reservoir and Booster Station – temporary booster was used as road was impassable to access booster station

TARGETS IN THE EVENT OF POWER LOSS

- Average Daily Pumped – 145 MGD
- Number of Pressure Zone Systems – 102
- Emergency Operations Goal: 85 gallons per person each day
  - Currently we can pump 74.3 MGD (emergency power and gravity sources)
- Goal – 85% of service area

To determine the indoor per capita demand, the average day demand (ADD) per unit of each zone was compared and the 10th percentile zone was chosen. The 10th percentile was chosen to give a realistic low demand while neglecting very low demand zones that may be outliers. Table 1 summarizes these calculations and shows that the 10th percentile demand is equal to 232 gallons per day per unit (gpd/unit), or 84 gallons per person per day (gpcd). To simplify, an indoor demand of 85 gpcd was chosen.

Table 1: Estimating Indoor Demand

Description	Value	Unit
Percentile Zone for Indoor Demand	10%	
Demand per Unit	232	gpd/unit
Demand per capita	84.1	gpcd
Indoor Demand, say	85	gpcd

By way of comparison, the World Health Organization (WHO)[1] suggests that 100-200 liters per capita per day (26-52 gpcd) supply results in very low risk to public health. Therefore, the assumed indoor demand of 85 gpcd is well above required minimums, however lowering this value would not substantially change the implementation of the generator plan as most zones meet the 85 gpcd with only one source on emergency power.

Table 5.1 Service level and quantity of water collected

Service level	Distance/time	Likely volumes of water collected	Public health risk from poor hygiene	Intervention priority and actions
No access	More than 1 km / more than 30 min round-trip	Very low: 5 litres per capita per day	**Very high** Hygiene practice compromised Basic consumption may be compromised	**Very high** Provision of basic level of service Hygiene education Household water treatment and safe storage as interim measure
Basic access	Within 1 km / within 30 min round-trip	Approximately 20 litres per capita per day on average	**High** Hygiene may be compromised Laundry may occur off-plot	**High** Provision of improved level of service Hygiene education Household water treatment and safe storage as interim measure
Intermediate access	Water provided on-plot through at least one tap (yard level)	Approximately 50 litres per capita per day on average	**Low** Hygiene should not be compromised Laundry likely to occur on-plot	**Low** Hygiene promotion still yields health gains Encourage optimal access
Optimal access	Supply of water through multiple taps within the house	100–200 litres per capita per day on average	**Very low** Hygiene should not be compromised Laundry will occur on-plot	**Very low** Hygiene promotion still yields health gains

Source: *Domestic water quantity, service level and health (supporting document in Annex 1)*

BWS GENERATORS

- **Mobile Generators**
  - 4 - 1 MW
  - 5 - 900 kW
  - 5 - 500 kW

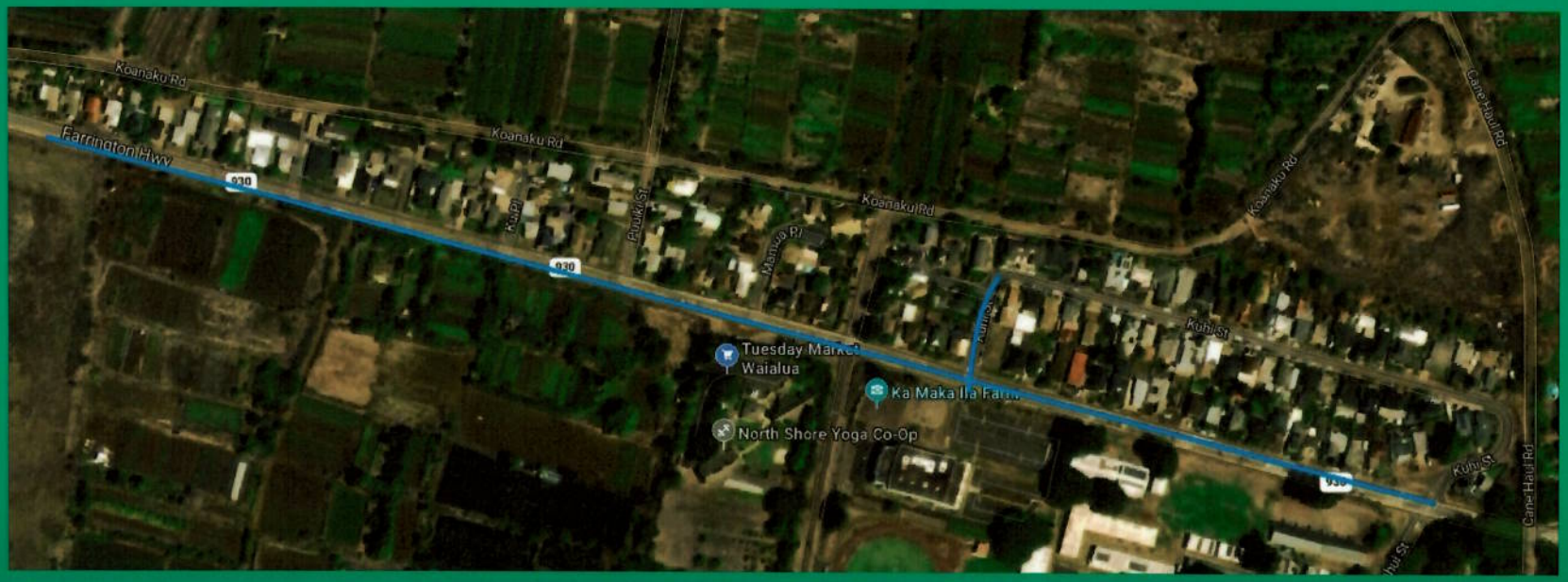
- **Permanent Generators (fixed)**
  - Beretania Wells (1.5 MW)
  - Kalihi Shaft (1 MW)
  - Halawa Shaft (1 MW)
  - Kunia Wells I (600 kW)
  - Kahuku Wells (250 kW)

- Two (2) tractor rigs to transport generators
- Fuel Storage (diesel – 12 kgal, gas – 6 kgal)
- FEMA has 26 – 540kW generators available for loan

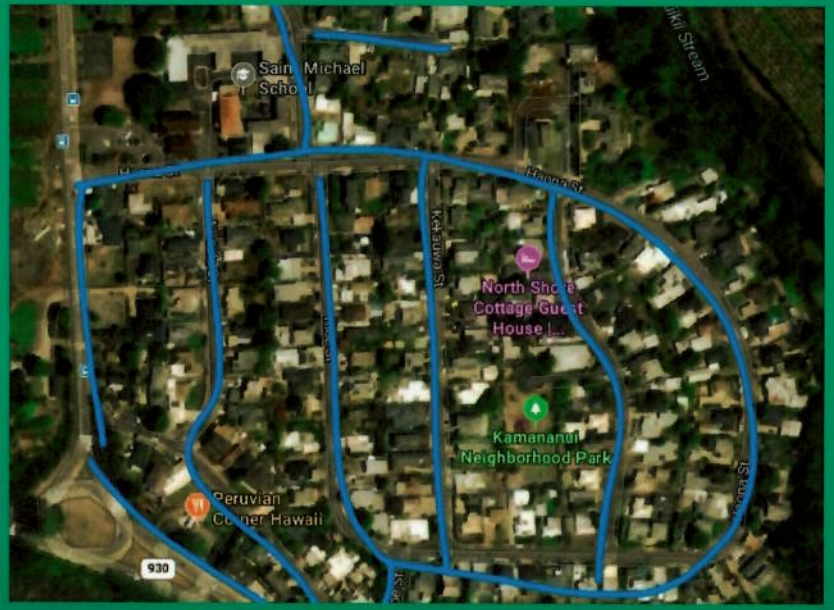
GRAVITY-FED SYSTEMS (TUNNELS)

NORTH SHORE FLOODING – HALE‘IWA ROAD

NORTH SHORE FLOODING – WAIALUA



NORTH SHORE FLOODING – WAIALUA



NORTH SHORE FLOODING – WAIALUA

NORTH SHORE FLOODING – WAIALUA

NORTH SHORE FLOODING – MOKULĒ‘IA

BOIL WATER NOTICE ISSUED AS A PRECAUTIONARY MEASURE – NO CONTAMINATION FOUND

- 3/21/26 – Boil water notice issued to all users on the North Shore from Mokulēʻia to Turtle Bay
- 3/24/26 – Boil water notice lifted for All of Pūpūkea, Sunset Beach, Waialeʻe, Turtle Bay Resort, and Kuilima Estates East and West
- 3/25/26 – Boil water notice lifted for Haleʻiwa and Waialua

DAMAGE ASSESSMENTS

FEMA Preliminary Damage Assessment Guide

WAIALUA WELLS

Land Slide – landslide that coated the GAC treatment area with mud and dirt

KŪ‘OU WELLS I - KONA LOW 1

Road and culvert partially washed away at stream crossing

KALUANUI LINE BOOSTER STATION

(A) Line Booster Fence

- Front right gate completely damaged by fallen tree

MĀKAHA WELL I

A section of the Mākaha Well I access road and shoulder, approximately 55‘ long with width varying from 2‘ to 20‘ and depth up to 6‘, was undermined exposing a utility box and its associated conduits.

A portion of the Mākaha Well I access road leading to the front of the site was washed away. Small boulders accumulated at the front of the site, including one which damaged the security fence.

MĀKAHA WELLS II AND III ACCESS ROAD

Large sections of asphalt and the underlying ground were uplifted and washed out from the Mākaha Well II and Mākaha Well III access road. Flood waters were observed flowing down and across many sections of the road.

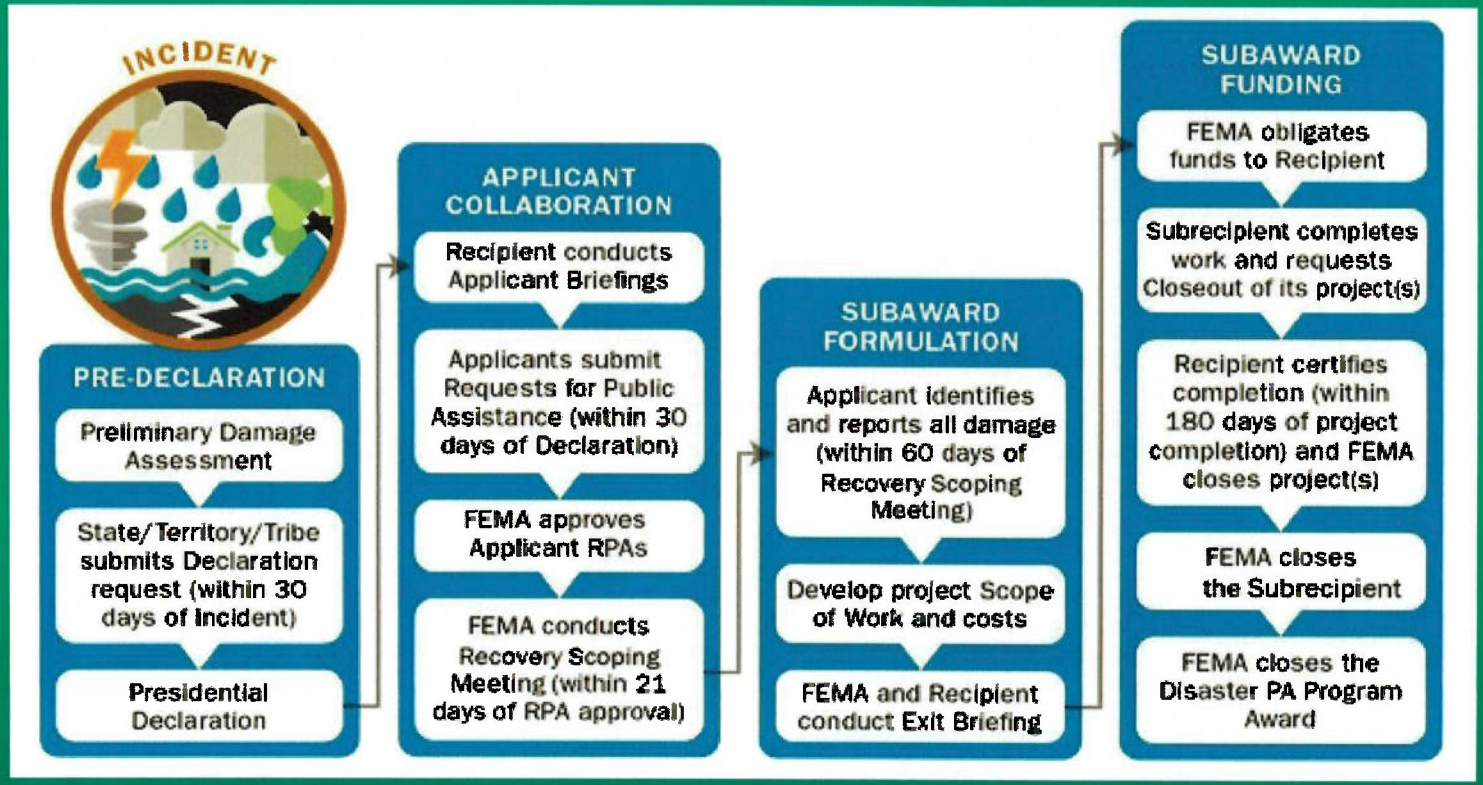
Large sections of asphalt were damaged, exposing the ground beneath the Mākaha Well II and Mākaha Well III access road. Access road was littered with rocks, pavement, and other debris.

MĀKAHA WELL V CONTROL BUILDING

Mud accumulated at the front entrance to the Mākaha Well V control building. HECO transformer can be seen in the background, slightly downhill form the front entrance.

Indications of an electrical fault within the control building motor control switchboard were observed.

RECOVERY – FEMA PUBLIC ASSISTANCE PROGRAM



COMMUNITY ASSISTANCE CENTERS

The Community Assistance Centers (CAC) have been set up to provide critical services and information to residents impacted by the Kona low flood, including medical assistance, replacement of vital records, replacement of driver's licenses and state IDs, housing assistance and case management, and disaster assistance information.

POTABLE WATER TANKERS & EMERGENCY WATER BAGS

FINANCIAL ASSISTANCE

QUESTIONS?


HNL ALERT
OFFICIAL NOTIFICATION SYSTEM OF THE CITY AND COUNTY OF HONOLULU
Sign up for O'ahu's Mass Notification System at hnlalert.gov
GET ALERTS BY TEXT, EMAIL, OR IN THE APP.
FOLLOW US: @oahudem @oahudem @oahu_dem
GET ALERTS ABOUT:
Severe Weather
Emergency Info
Road Closures
Ocean Conditions
Water Main Breaks
and more!
HNL ALERT
Informed
AWARE
Prepared
hnlalert.gov
SCAN HERE

ITEM FOR INFORMATION NO. 4

"April 27, 2026

STATUS UPDATE OF GROUNDWATER LEVELS AT ALL INDEX STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Four aquifer index stations were in low groundwater condition for the production month of March 2026. Pearl City, Punalu'u and Waialua are in Caution Status. Kaimukī is in Alert Status. The monthly production average for March 2026 was 120.05 million gallons per day.

The Board of Water Supply rainfall index for the month of March 2026 was 319 percent of normal, with a 5-month moving average of 181 percent. As of April 7, 2026, the Hawai'i Drought Monitor shows no drought conditions across the entire island of O'ahu. The National Weather Service is forecasting above-normal precipitation through May 2026.

Most monitoring wells exhibited increasing head levels for the month of March 2026. This reflects the relatively higher rainfall over the past month, combined with seasonal decreased production. Average monthly production for March 2026 is lower than March 2025 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.

Before Mr. Barry Usagawa began his presentation, Chair Anthony thanked and recognized him for his years of service.

After Mr. Usagawa's presentation, Chair Anthony asked about the moving-average rainfall and how it affects aquifer recharge.

Mr. Usagawa responded that heavy rainfall is helpful after last year's very dry year. However, heavy rainfall becomes runoff; the slow, steady rainfall is what percolates into the aquifers. Forecasters have predicted that

climate change will bring varying weather, from intense drought to intense flooding, as seen in real data.

Chair Anthony commented on the importance of tracking forecasts, rainfall, and tradewinds, and how they affect the health of the aquifer and sustainable yield, which are crucial to the BWS's work of meeting communities' needs now and into the future.

Mr. Usagawa mentioned using alternative water sources and implementing conservation measures.

PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MARCH 2026

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.00
AINA KOA	0.00
AINA KOA II	0.00
MANOA II	0.83
PALOLO	1.39
KAIMUKI HIGH	1.87
KAIMUKI LOW	0.90
WILDER	8.20
BERETANIA HIGH	1.09
BERETANIA LOW	1.39
KALIHI HIGH	3.74
KALIHI LOW	2.59
KAPALAMA	0.24
KALIHI SHAFT	7.43
MOANALUA	2.55
HALAWA SHAFT	0.00
KAAMILO	0.00
KALAUAO	7.60
PUNANANI	10.06
KAAHUMANU	0.23
HECO WAIAU	2.41
MANANA	0.36
WAIALAE IKI	0.23
WELLS SUBTOTAL:	53.11
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTTL:	0.17
HONOLULU SUBTTL:	53.28

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.13
WAIMANALO III	0.00
KUOU I	0.00
KUOU II	0.04
KUOU III	0.60
LULUKU	0.80
HAIKU	0.33
IOLEKAA	0.00
KAHALUU	0.00
KAHANA	0.55
PUNALUU I	0.00
PUNALUU II	2.22
PUNALUU III	0.92
KALUANUI	0.86
MAAKUA	0.33
HAUULA	0.21
WELLS SUBTOTAL:	6.99
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.21
WAIHEE INCL. WELLS	0.27
WAIHEE TUNNEL	5.18
LULUKU TUNNEL	0.17
HAIKU TUNNEL	0.11
KAHALUU TUNNEL	2.31
GRAVITY SUBTOTAL:	8.25
WIND. SUBTOTAL:	15.24

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.32
OPANA	0.99
WAIALEE I	0.43
WAIALEE II	0.00
HALEIWA	0.00
WAIALUA	1.25
N.SHORE SUBTOTAL:	2.98

MILILANI (4)	
MILILANI I	2.57
MILILANI II	0.58
MILILANI III	0.50
MILILANI IV	0.00
MILILANI SUBTOTAL:	3.65

WAHIAWA (5)	
WAHIAWA	1.50
WAHIAWA II	1.49
WAHIAWA SUBTOTAL:	2.99

PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	1.07
AIEA GULCH 550	0.19
KAONOHI I	1.60
WAIMALU I	0.00
NEWTOWN	0.98
WAIAU	0.85
PEARL CITY I	0.84
PEARL CITY II	1.16
PEARL CITY III	0.00
PEARL CITY SHAFT	0.75
PEARL CITY-HALAWA SUBTOTAL:	7.44

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	0.94
WAIPIO HTS. I	0.61
WAIPIO HTS. II	0.09
WAIPIO HTS. III	0.15
WAIPAHU	6.72
WAIPAHU II	2.23
WAIPAHU III	1.60
WAIPAHU IV	2.43
KUNIA I	4.06
KUNIA II	1.47
KUNIA III	1.47
HOAEAE	3.71
HONOULIULI I	0.00
HONOULIULI II	5.44
MAKAKILO	0.00
WAIPAHU-EWA SUBTOTAL:	30.94

WAIANAE (8)	
MAKAHA I	0.99
MAKAHA II	0.00
MAKAHA III	0.24
MAKAHA V	0.14
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.00
WAIANAE II	0.06
WAIANAE III	0.69
WELLS SUBTOTAL:	2.12
WAIA. C&C TUNNEL	1.40
WAIA. PLANT. TUNNELS	0.01
GRAVITY SUBTOTAL:	1.41
WAIANAE SUBTOTAL:	3.53

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.29
BARBERS POINT WELL	0.66
GLOVER TUNNEL NP	0.27
NONPOTABLE TOTAL:	1.22

RECYCLED WATER (FEBRUARY 2026)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	4.31
HONOULIULI WRF RO	1.53
RECYCLED TOTAL:	5.84

PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MARCH 2026

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	110.23
GRAVITY	9.83
POTABLE TOTAL:	120.05
NONPOTABLE	1.22
RECYCLED WATER	5.84
TOTAL WATER:	127.11

CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES

	WATER USE DISTRICTS	A PERMITTED USE/ BWS YLDS	B MAR 2026	C DIFF. A-B
1	HONOLULU	83.32	53.11	30.21
2	WINDWARD	25.02	15.24	9.78
3	NORTH SHORE	4.70	2.98	1.71
4	MILILANI	7.53	3.65	3.88
5	WAHIAWA	4.27	2.99	1.28
6	PEARL CITY-HALAWA	12.25	7.44	4.81
7	WAIPAHU-EWA	50.63	30.94	19.69
8	WAIANAE	4.34	3.53	0.81
	TOTAL:	192.06	119.88	72.17

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES

	WATER USE DISTRICTS	A PERMITTED USE	B MAR 2026	C DIFF. A-B
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	0.66	0.34
	TOTAL:	1.00	0.66	0.34

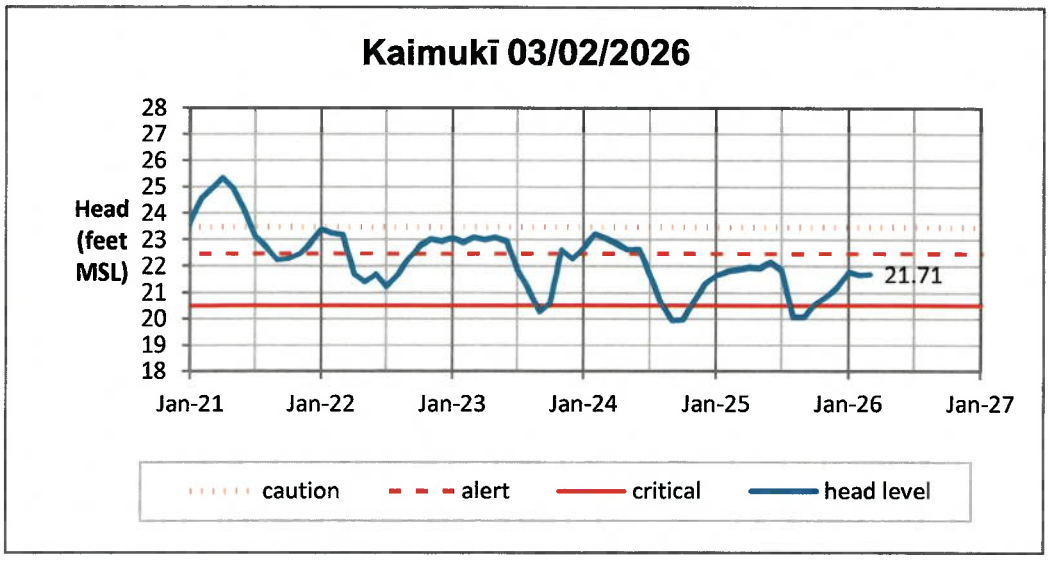
EFFECTIVE WATER DEMAND PER DISTRICT

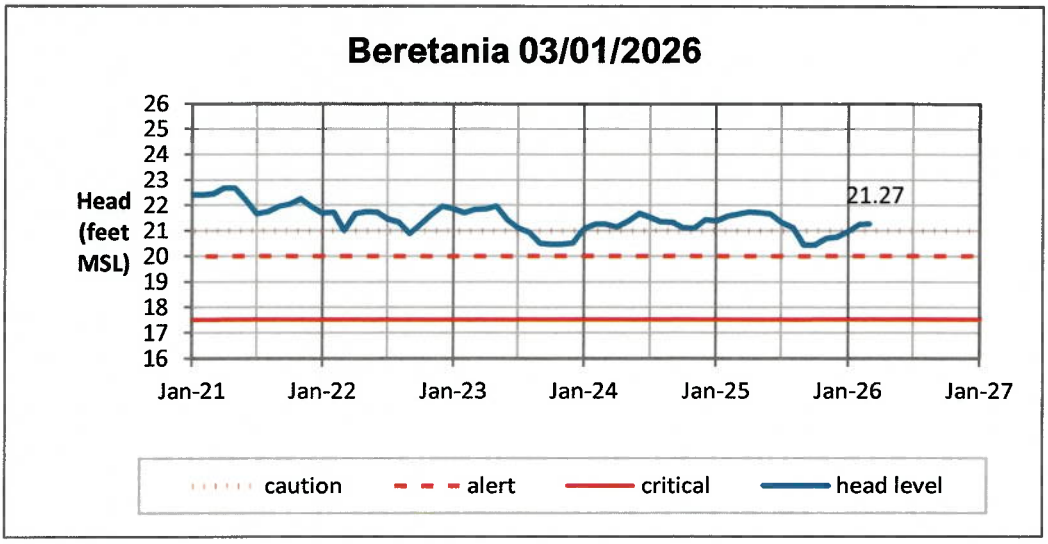
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS

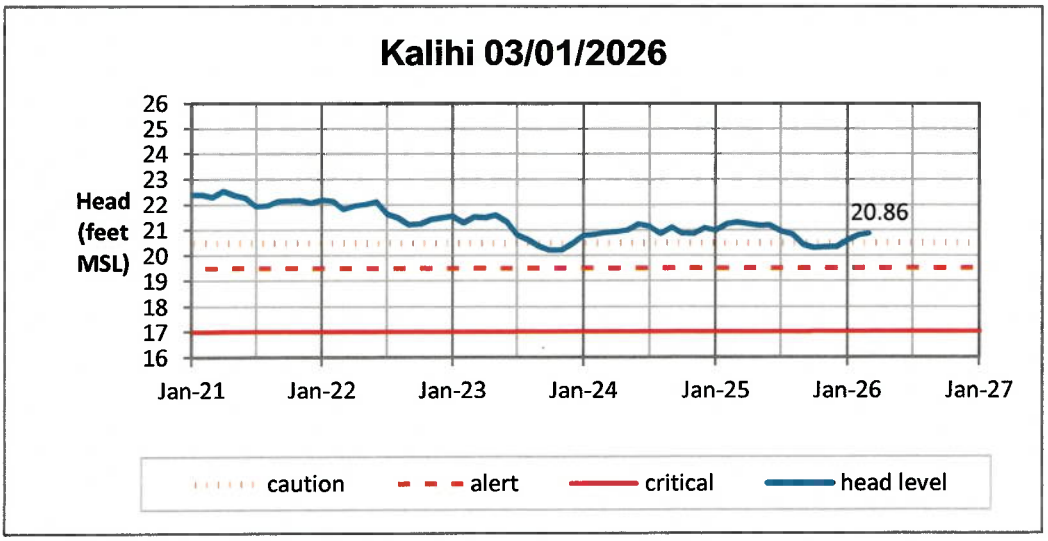
FROM	TO		MGD
2	1	WINDWARD EXPORT	0.10
7	8	BARBERS PT LB	4.24

	WATER USE DISTRICTS	SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	53.28	0.10	-	53.38
2	WINDWARD	15.24	-	0.10	15.14
3	NORTH SHORE	2.98	-	-	2.98
4	MILILANI	3.65	-	-	3.65
5	WAHIAWA	2.99	-	-	2.99
6	PEARL CITY-HALAWA	7.44	-	-	7.44
7	WAIPAHU-EWA	30.94	-	4.24	26.70
8	WAIANAE	3.53	4.24	-	7.77
	TOTAL:	120.05	4.34	4.34	120.05

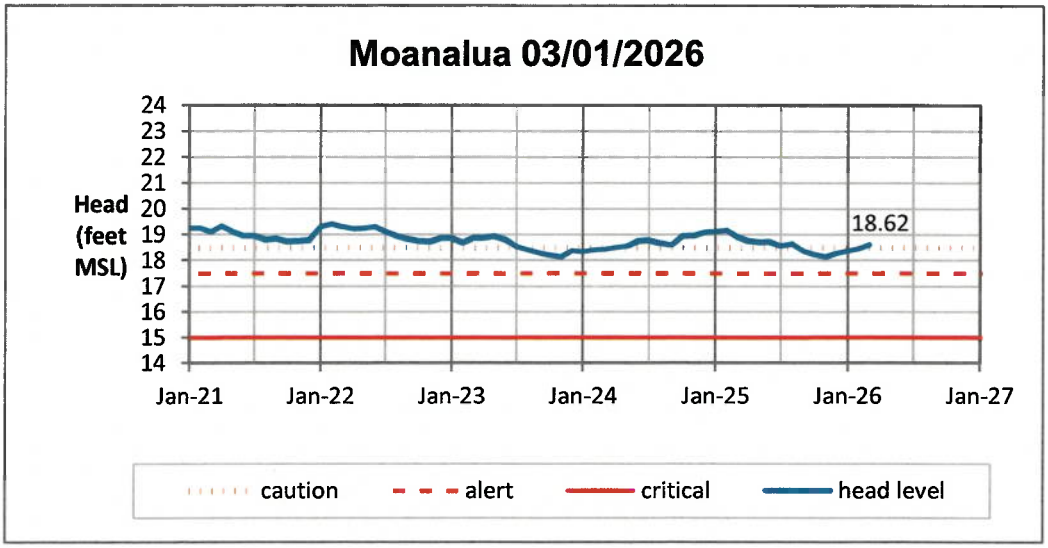
Head Report

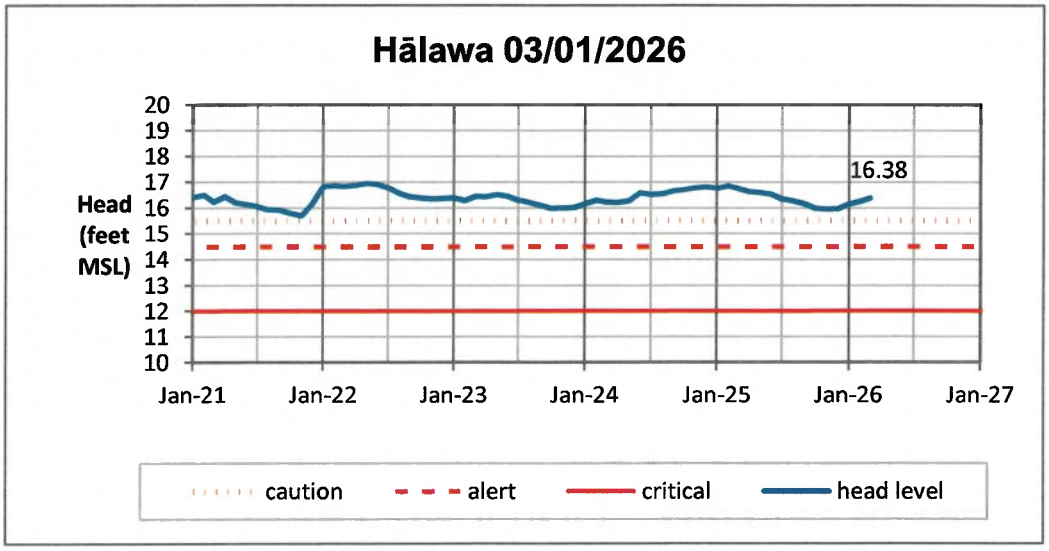

Kaimukī 03/02/2026
Head (feet MSL)
28
27
26
25
24
23
22
21
20
19
18
21.71
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

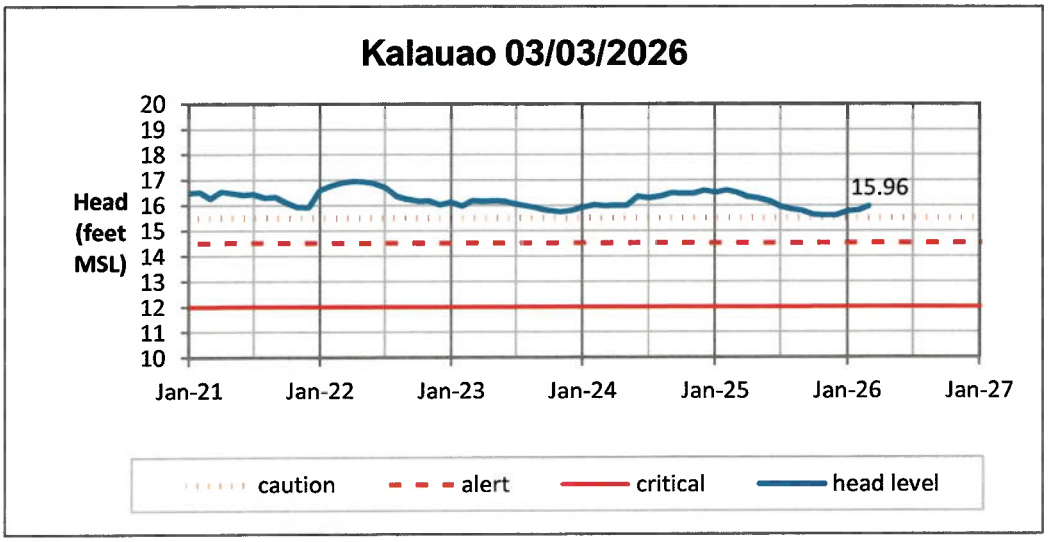

Beretania 03/01/2026
Head (feet MSL)
26
25
24
23
22
21
20
19
18
17
16
21.27
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


Kalihi 03/01/2026
Head (feet MSL)
26
25
24
23
22
21
20
19
18
17
16
20.86
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

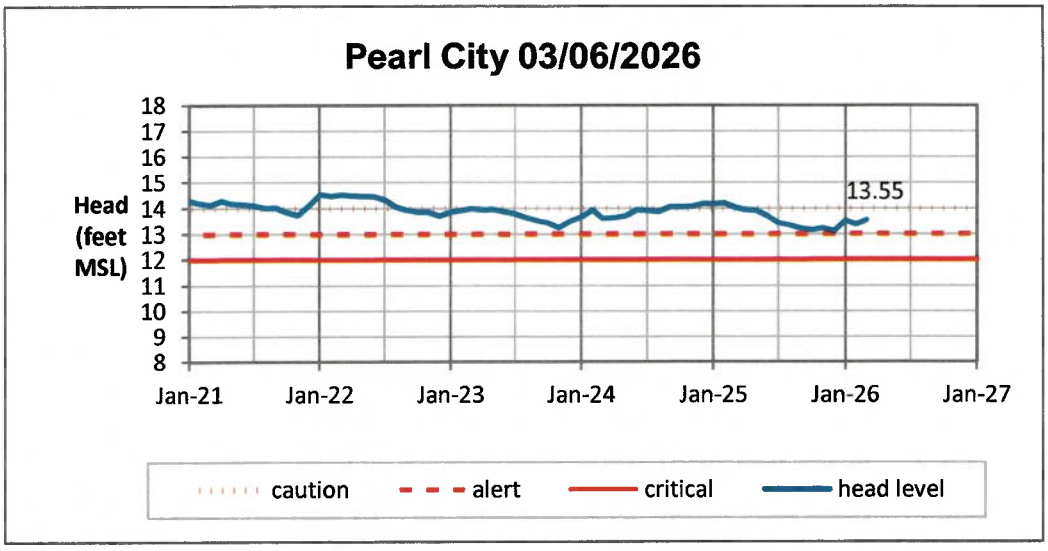
Head Report

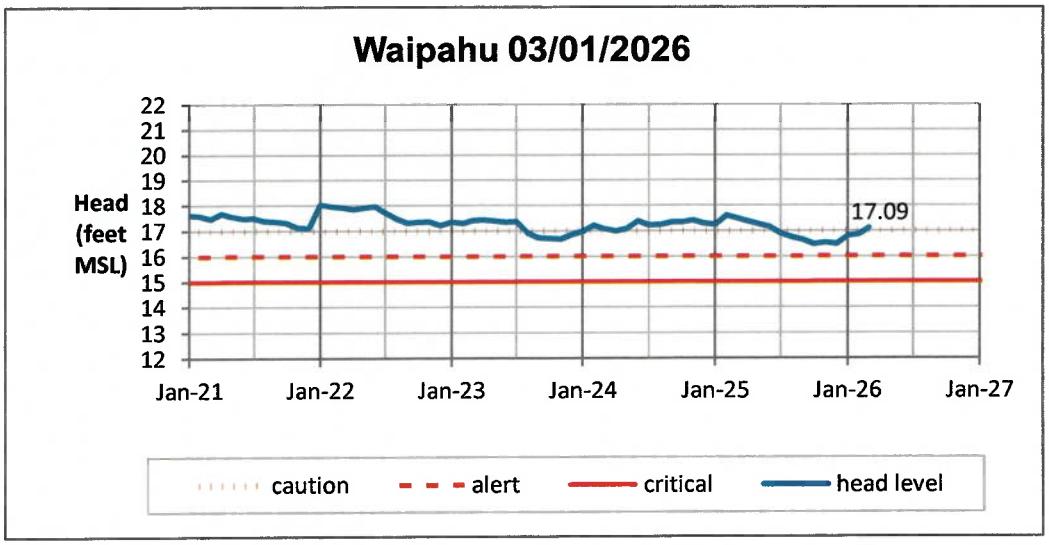

Moanalua 03/01/2026
Head (feet MSL)
24
23
22
21
20
19
18
17
16
15
14
18.62
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

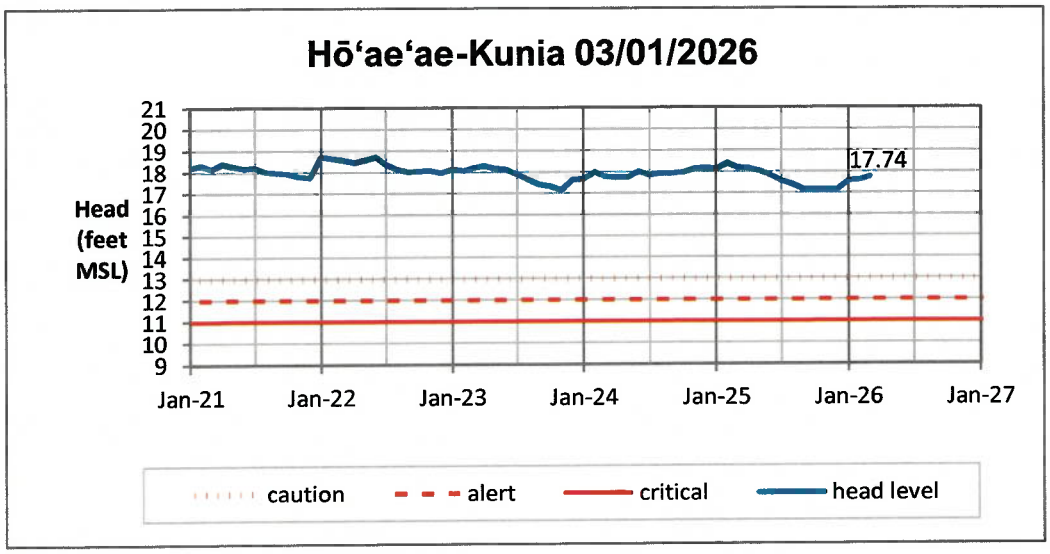

Hālawa 03/01/2026
Head (feet MSL)
20
19
18
17
16
15
14
13
12
11
10
16.38
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


Kalauao 03/03/2026
Head (feet MSL)
20
19
18
17
16
15
14
13
12
11
10
15.96
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

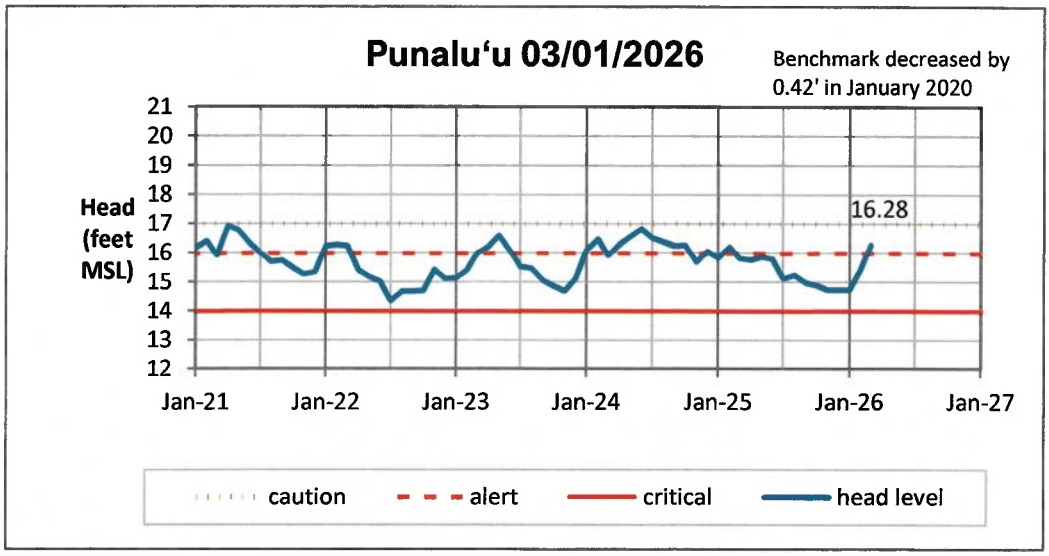
Head Report

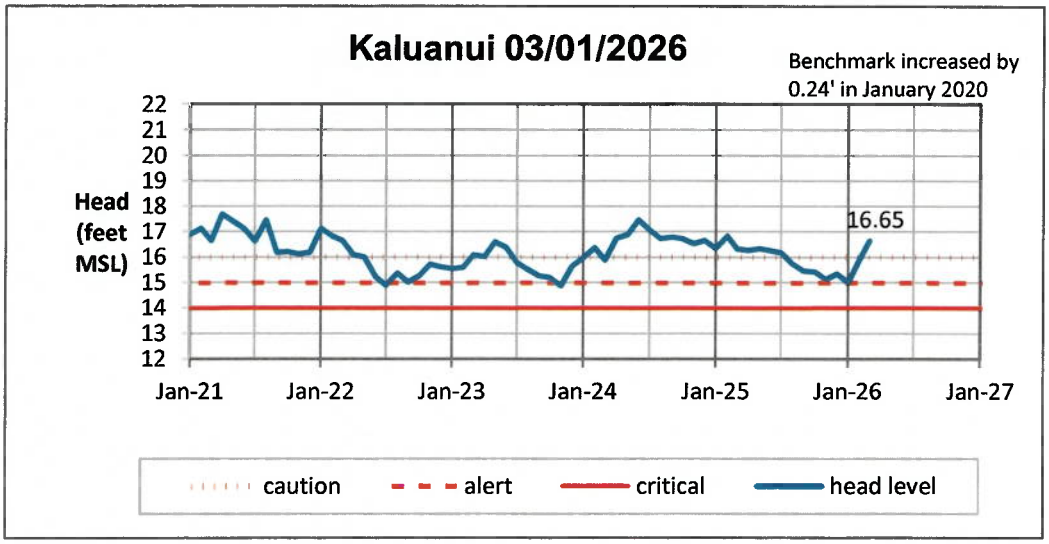

Pearl City 03/06/2026
Head (feet MSL)
18
17
16
15
14
13
12
11
10
9
8
13.55
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

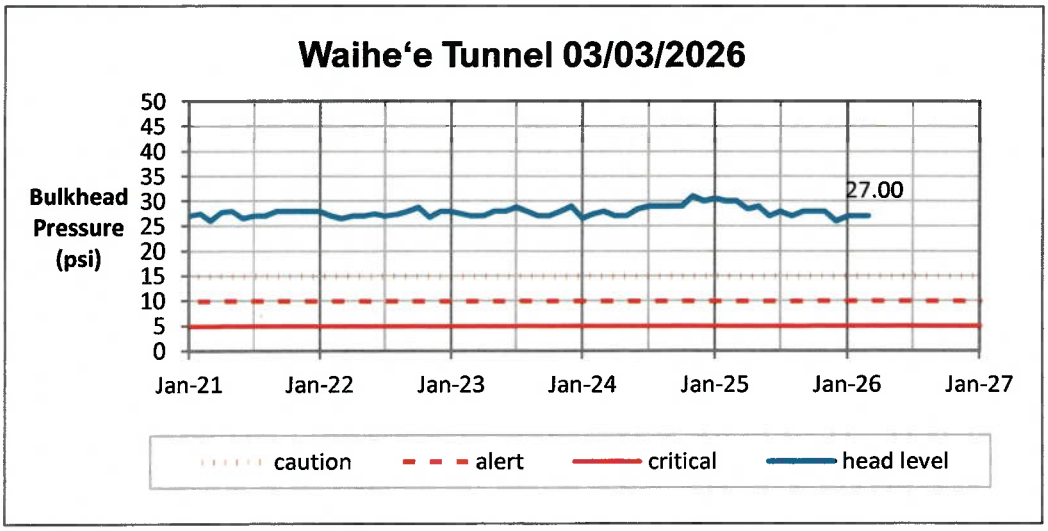

Waipahu 03/01/2026
Head (feet MSL)
22
21
20
19
18
17
16
15
14
13
12
17.09
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


Hō'ae'ae-Kunia 03/01/2026
Head (feet MSL)
21
20
19
18
17
16
15
14
13
12
11
10
9
17.74
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

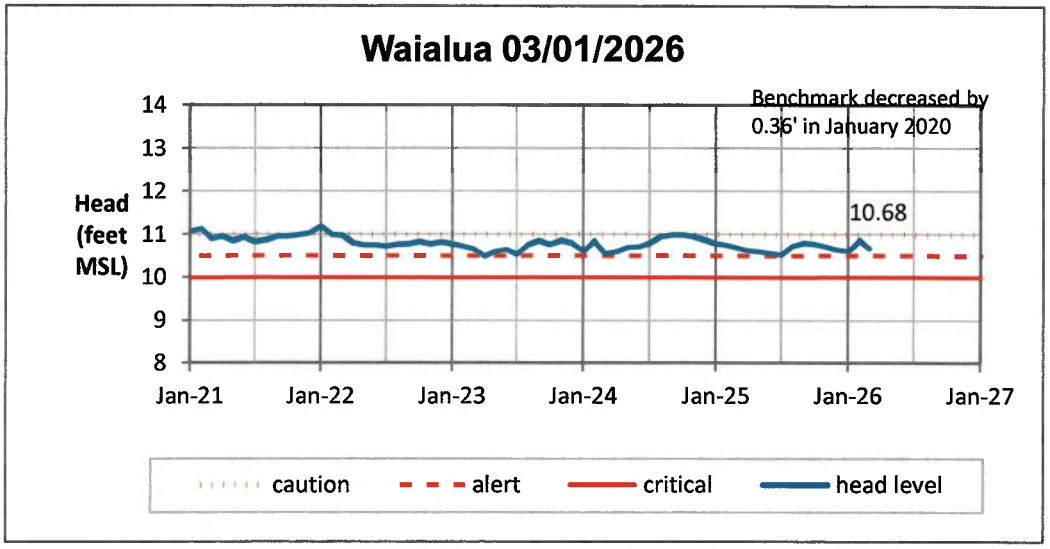
Head Report

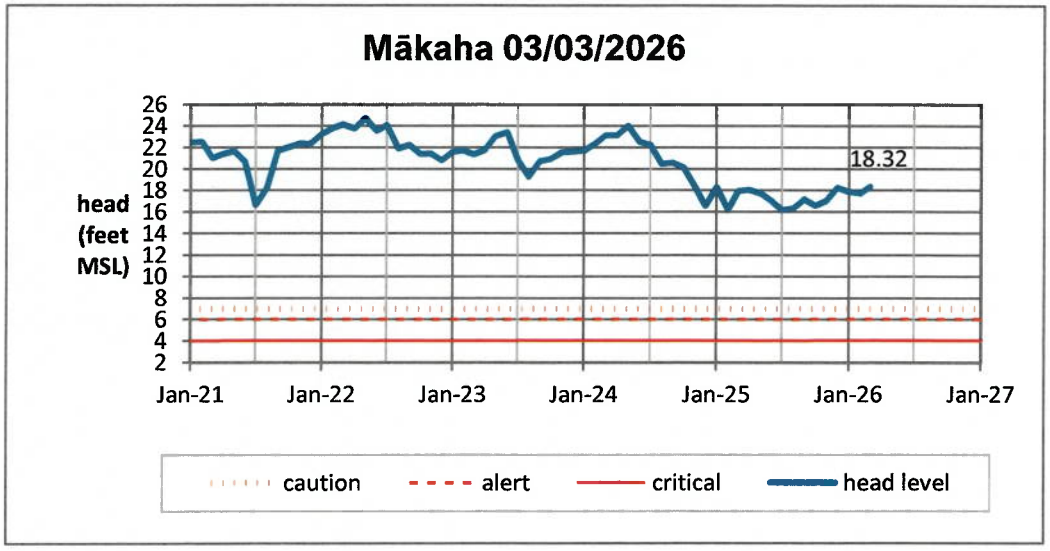

Punalu'u 03/01/2026
Benchmark decreased by 0.42' in January 2020
Head (feet MSL)
21
20
19
18
17
16
15
14
13
12
16.28
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

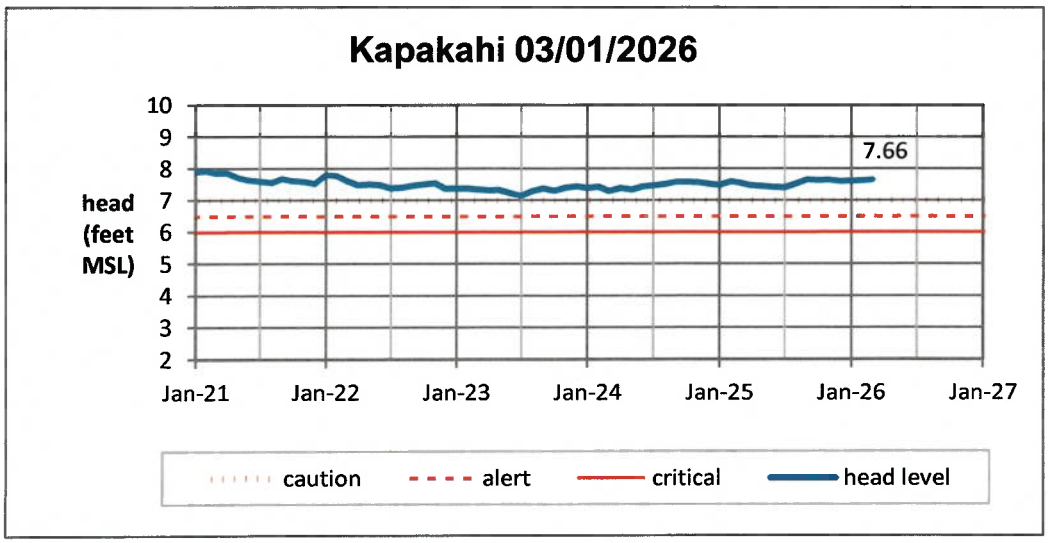

Kaluanui 03/01/2026
Benchmark increased by 0.24' in January 2020
Head (feet MSL)
22
21
20
19
18
17
16
15
14
13
12
16.65
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

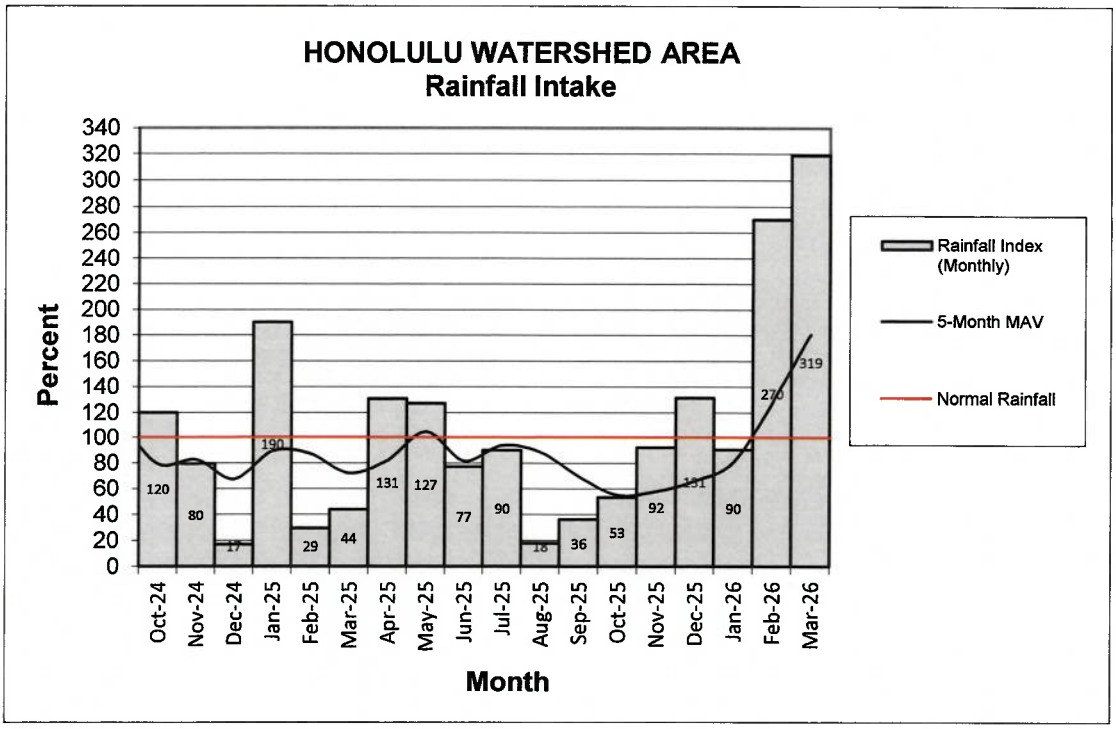

Waihe'e Tunnel 03/03/2026
Bulkhead Pressure (psi)
50
45
40
35
30
25
20
15
10
5
0
27.00
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level

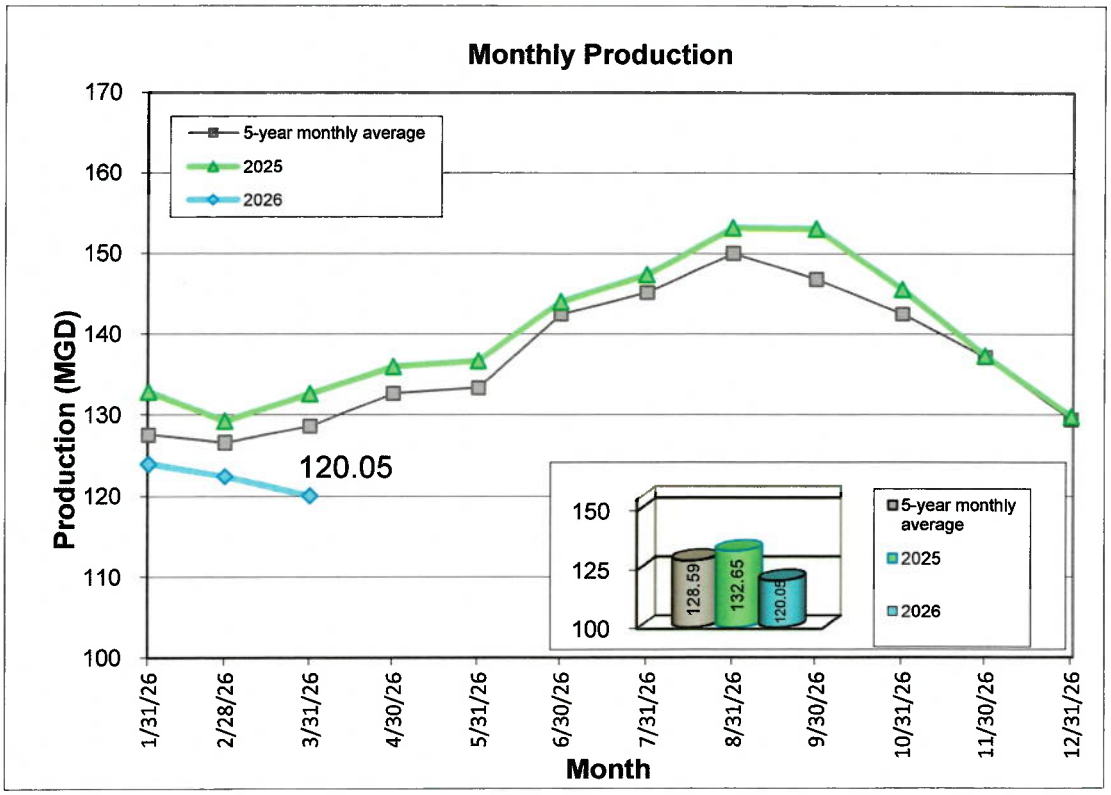
Head Report


Waialua 03/01/2026
Benchmark decreased by 0.36' in January 2020
10.68
Head (feet MSL)
14
13
12
11
10
9
8
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


Mākaha 03/03/2026
18.32
head (feet MSL)
26
24
22
20
18
16
14
12
10
8
6
4
2
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


Kapakahi 03/01/2026
7.66
head (feet MSL)
10
9
8
7
6
5
4
3
2
Jan-21
Jan-22
Jan-23
Jan-24
Jan-25
Jan-26
Jan-27
caution
alert
critical
head level


HONOLULU WATERSHED AREA
Rainfall Intake
Percent
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
120
80
17
190
29
44
131
127
77
90
18
36
53
92
131
90
270
319
Oct-24
Nov-24
Dec-24
Jan-25
Feb-25
Mar-25
Apr-25
May-25
Jun-25
Jul-25
Aug-25
Sep-25
Oct-25
Nov-25
Dec-25
Jan-26
Feb-26
Mar-26
Month
Rainfall Index (Monthly)
5-Month MAV
Normal Rainfall

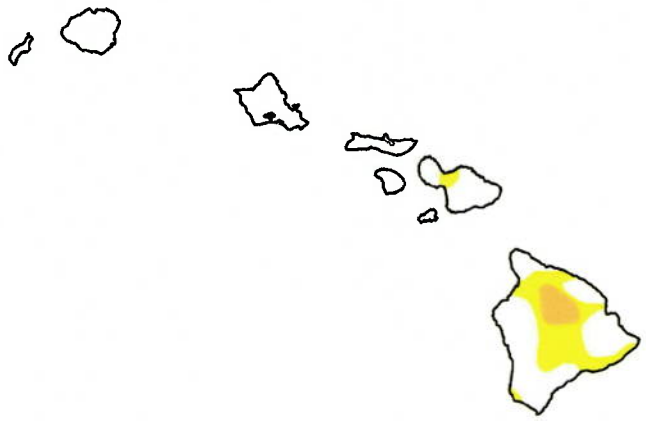

Monthly Production
Production (MGD)
170
160
150
140
130
120
110
100
5-year monthly average
2025
2026
120.05
150
125
100
128.59
132.65
120.05
5-year monthly average
2025
2026
1/31/26
2/28/26
3/31/26
4/30/26
5/31/26
6/30/26
7/31/26
8/31/26
9/30/26
10/31/26
11/30/26
12/31/26
Month

U.S. Drought Monitor

Current Maps Data Summary About Conditions & Outlooks Ag in Drought En Español NADM

Hawaii

Home / Hawaii



Map released: Thurs. April 9, 2026

Data valid: April 7, 2026 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):

David Simeral, Western Regional Climate Center

Pacific Islands and Virgin Islands Author(s):

Anthony Artusa, NOAA/NWS/NCEP/CPC

ITEM FOR INFORMATION NO. 5

"April 27, 2026

WATER MAIN REPAIR REPORT FOR FEBRUARY AND MARCH

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

Chair and Members:

Subject: Water Main Repair Report for February and March 2026

Daniel Lee, Acting Assistant Program Administrator, Field Operations Division, will report on water main repair work for the month of February and March 2026.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

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

Before beginning his presentation, Mr. Daniel Lee passed around a piece of polyvinyl chloride (PVC) pipe that was pulled from a 24-inch main break that occurred on April 5, 2026, on Farrington Highway.

Manager Lau asked how long was the crack.

Mr. Lee responded 20 feet (ft).

Chair Anthony asked how much water is lost during a main break.

Mr. Lee explained that the main line runs west; therefore, when the main break occurred, conservation measures went into effect, since no water could be brought in.

Chair Anthony asked about the time it took to repair the main break.

Mr. Lee shared that it happened at the end of a regular workday, and by morning, it was done.

Mr. Wayne Tello added that both the water main and road repairs was completed within 24 hours.

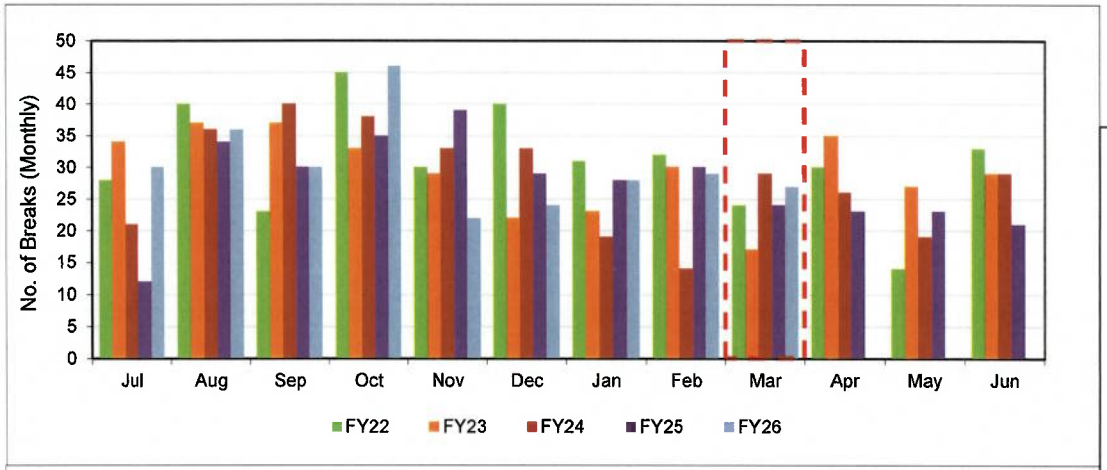
WATER MAIN REPAIR REPORT
for March 2026

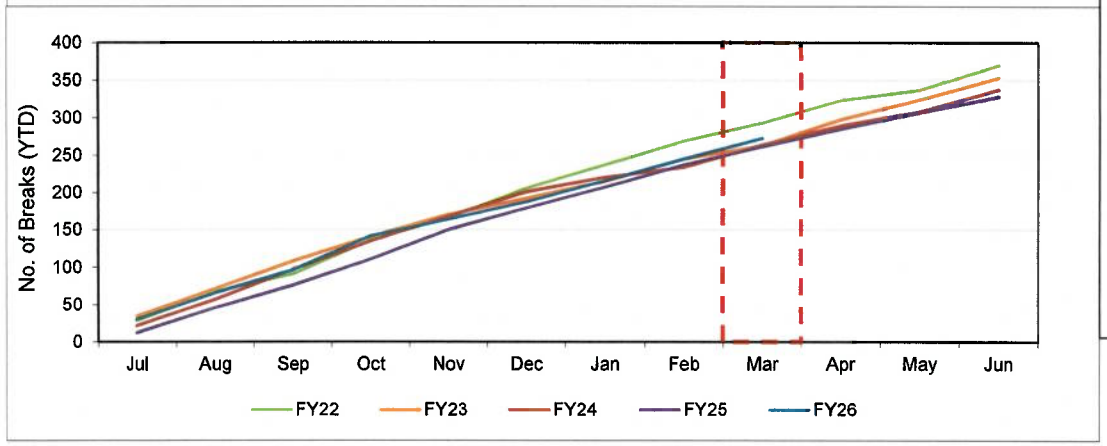
Monthly Main Breaks

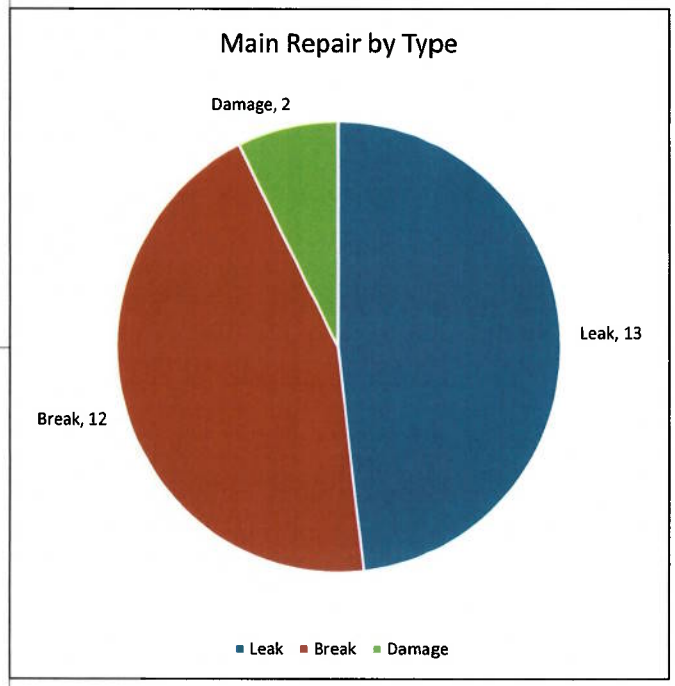
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	30	36	30	46	22	24	28	29	**27**	0	0	0	**272**
2025	12	34	30	35	39	29	28	30	24	23	23	21	**328**
2024	21	36	40	38	33	33	19	14	29	26	19	29	**337**
2023	34	37	37	33	29	22	23	30	17	35	27	29	**353**
2022	28	40	23	45	30	40	31	32	24	30	14	33	**370**

Main Repair by Type

Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Leak	12	15	11	13	7	17	12	5	**13**	0	0	0	105
Break	17	20	17	32	15	5	14	23	**12**	0	0	0	155
Damage	1	1	2	1	0	1	2	1	**2**	0	0	0	11
Total	**30**	**36**	**30**	**46**	**22**	**23**	**28**	**29**	**27**	**0**	**0**	**0**	**271**







Date	Address	Size (In)	Pipe Type	Date	Address	Size (In)	Pipe Type
3/1/2026	94-813 Kupuohi St, Waipahu	12	DI				
3/2/2026	1804 Democrat St, Honolulu	8	CI				
3/2/2026	1419 Alexander St, Honolulu	6	CI				
3/2/2026	5645 Haleola St, Honolulu	8	CI				
3/4/2026	599 Farrington Hwy Suite 300, Kapolei	8	AC				
3/4/2026	61-529 Kamehameha Hwy, Haleiwa	6	CI				
3/4/2026	1717 Kalauokalani Wy, Honolulu	4	CI				
3/5/2026	2972 Oahu Ave, Honolulu	8	CI				
3/5/2026	99-750 Puluniu Lp, Aiea	8	DI				
3/7/2026	128 Amaui Pl, Kapolei	8	DI				
3/9/2026	1179 Waimano Home Rd, Pearl City	12	CI				
3/16/2026	2570 S. Beretania St, Honolulu	6	CI				
3/16/2026	92-773 Ahiwa St, Kapolei	8	DI				
3/17/2026	92-615 Auwaea St, Kapolei	8	CI				
3/19/2026	1315 Akahai St, Kailua	8	CI				
3/19/2026	715 Hahaione St, Honolulu	8	DI				
3/23/2026	95-698 Kelewaa St, Mililani	8	AC				
3/23/2026	41-1020 Kakaina St, Waimanalo	6	AC				
3/24/2026	91-012 Pohakupuna Pl, Ewa Beach	8	CI				
3/27/2026	349 Kailua Rd, Kailua	12	CI				
3/28/2026	2357 Palolo Ave, Honolulu	8	CI				
3/28/2026	550 Queen St, Honolulu	8	DI				
3/29/2026	91-454 Pupu St, Ewa Beach	8	CI				
3/30/2026	91-465 Pupu St, Ewa Beach	8	CI				
3/30/2026	45-164 Neepapa St, Kaneohe	4	CI				
3/30/2026	1218 N School St, Honolulu	8	CI				
3/30/2026	2513 Halekoa Dr, Honolulu	8	CI				

LEAK DETECTION
for March 2026

POIs Investigated

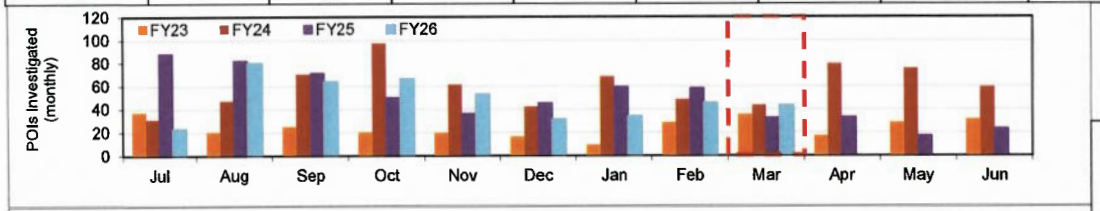
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	23	80	64	66	53	31	34	45	**43**	0	0	0	**439**
2025	88	82	71	50	36	45	59	58	32	33	17	23	594
2024	31	47	70	97	61	42	68	48	43	79	75	59	720
2023	37	20	25	20	19	16	9	28	35	17	28	31	285

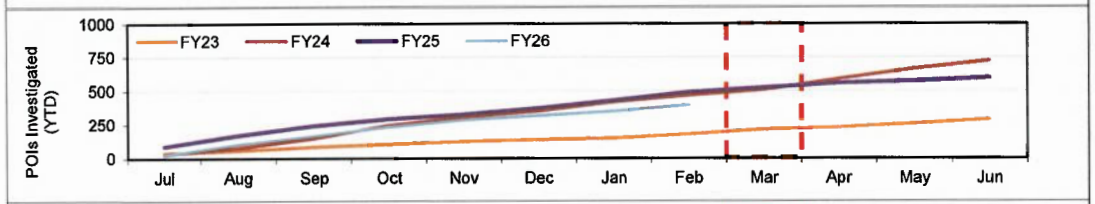
Leaks Found

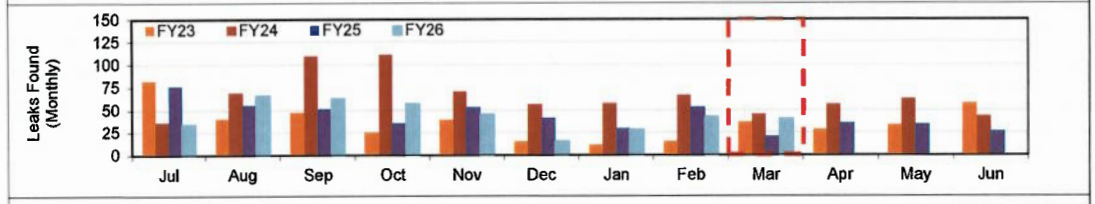
FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2026	34	66	63	57	45	15	28	42	**40**	0	0	0	**390**
2025	76	55	51	35	53	41	29	53	20	35	34	26	508
2024	36	69	109	111	70	56	57	66	45	56	62	43	780
2023	82	40	47	25	39	15	11	15	36	28	33	57	428

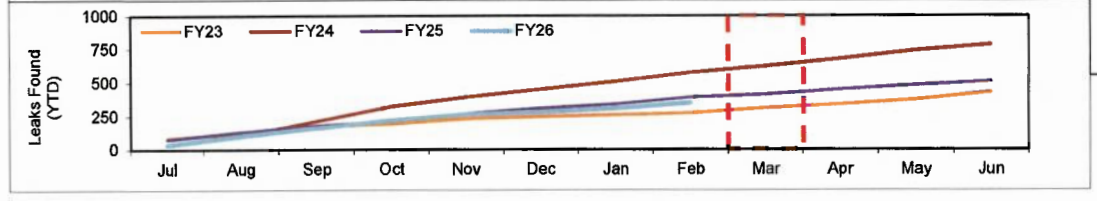
Satellite Leak by Type

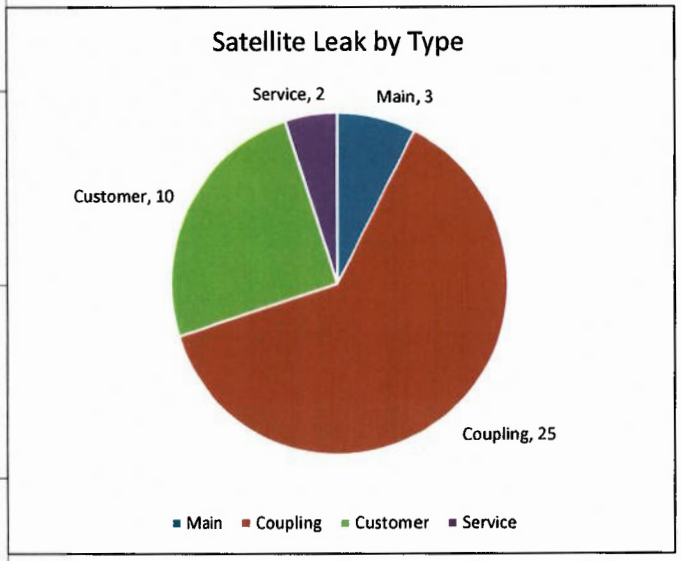
Type	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Main	2	3	6	2	1	0	1	3	**3**	0	0	0	21
Coupling	19	49	38	40	26	10	20	16	**25**	0	0	0	243
Customer	5	11	14	11	12	5	5	21	**10**	0	0	0	94
Service	8	3	5	4	6	0	2	2	**2**	0	0	0	32
Total	**34**	**66**	**63**	**57**	**45**	**15**	**28**	**42**	**40**	**0**	**0**	**0**	**390**











Chair Anthony announced that the Action item in the Executive Session: the Approval of the Minutes of the Executive Session Held on February 23, 2026, would be deferred to the May 26, 2026, Board meeting.

MOTION TO ADJOURN

There being no further business, Chair Anthony, at 4:23 PM, called for a motion to adjourn the Regular Session. Lance Wilhelm so moved, seconded by Jonathan Kaneshiro, and unanimously carried.

The minutes of the Regular Meeting held on April 27, 2026, are respectfully submitted,

JOY CRUZ-ACHIU

APPROVED:

NĀʻĀLEHU ANTHONY
Chair of the Board

MAY 26 2026
Date

THE MINUTES OF THE REGULAR MEETING HELD ON APRIL 27, 2026, WERE APPROVED AT THE MAY 26, 2026, BOARD MEETING			
	AYE	NO	COMMENT
NĀʻĀLEHU ANTHONY	X		
JONATHAN KANESHIRO	X		
LANCE WILHELM	X		
JEFFREY LAUPOLA	X		
DARIAN CHUN	X		
EDWIN H. SNIFFEN			ABSTAIN
GENE C. ALBANO	X		