

BOARD OF WATER SUPPLY

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



June 21, 2022

RICK BLANGIARDI, MAYOR

BRYAN P. ANDAYA, Chair
KAPUA SPROAT, Vice Chair
RAY C. SOON
MAX J. SWORD
NA'ALEHU ANTHONY

JADE T. BUTAY, Ex-Officio
DAWN B. SZEWCZYK, P.E., Ex-Officio

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

ELLEN E. KITAMURA, P.E.
Deputy Manager and Chief Engineer

NOTICE

The Board of Water Supply, City and County of Honolulu, will hold a Regular Meeting on Monday, June 27, 2022, at 2:00 p.m. in the Boardroom, Public Service Building, 630 South Beretania Street, Honolulu, Hawaii.

The public may also attend the meeting from the lobby of the Board of Water Supply, Public Service Building, 630 S. Beretania St. Honolulu, HI 96843, via interactive conference technology.

TESTIMONY

Testimony can be submitted as follows:

- Written testimony may be emailed to board@hbws.org or faxed to (808) 748-5079. Testimony is requested by Monday, June 27, 2022, at noon. Written testimonies should include the submitter's address, email address, and phone number. Written testimony will be posted to the BWS website at boardofwatersupply.com.
- Mail written testimony to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843. Testimony is requested by Monday, June 27, 2022, at noon.
- On-line testimony will be accepted at boardofwatersupply.com/testimony. Fill out the testimony form. It is requested by Monday, June 27, 2022, at noon.
- Telephone testimony will be accepted during the meeting at (808) 748-6040. Callers will be placed in a queue and brought up to testify one at a time.
- In-person testimony will be accepted during the meeting in the Board Room at the Board of Water Supply. In-person testifiers should check-in at the Lobby of the Public Service Building, 630 S. Beretania St. Honolulu, HI 96843 and they will be brought into the Board Room to present their testimony.

Testimony is limited to two (2) minutes and shall be presented by the registered speaker only.

MATERIALS AVAILABLE FOR INSPECTION

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

VIEWING THE MEETING

The meeting will be viewable via live streaming on:

- (1) 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 (808) 748-5172 or email your request to board@hbws.org at least three business days prior to the meeting date.

The agenda for the June 27, 2022, Regular Meeting of the Board of Water Supply is as follows:

ITEMS REQUIRING BOARD ACTION

1. Approval of the Minutes of the Public Hearing and Regular Meeting Held on May 23, 2022
2. Approval of the Board of Water Supply Commercial Stakeholder Advisory Group
3. Adoption of Resolution No. 942, 2022, Acceptance of Gift to the Board of Water Supply from Detail Garage Hawai'i for Water Conservation Promotions
4. Adoption of Resolution No. 943, 2022, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness

ITEMS FOR INFORMATION

1. Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination
2. Water System Revenue Bonds – Compliance with Rate Covenant
3. AOA O Terrazza/Corte Bella/Las Brisas/Tiburon's Water Use and Delinquent Water and Sewer Service Charges
4. Status Update of Groundwater Levels at All Index Stations
5. Water Main Repair Report for May 2022

EXECUTIVE SESSION

1. Approval of the Minutes of the Executive Session Held on April 25, 2022
2. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board's Powers, Duties, Privileges, Immunities, and Liabilities Pertaining to Matters Concerning Contractor Damage to a 42" Water Main on or around June 18, 2021 [HRS §92-5(a)(4)]
3. To Consult with the Board's Attorney on Questions and Issues Pertaining to the Board of Water Supply's Proposed Settlement of Claim #21-033, Relating to Property Damages at 2915 Laelae Way, Hawaii following the Discovery and Repair of a 6" Cast Iron leak at 2921 Laelae Way, Hawaii, in October 2020 [HRS §92-5(a)(4)]

MINUTES

THE REGULAR MEETING OF THE BOARD OF WATER SUPPLY

June 27, 2022

At 2:00 PM on June 27, 2022, in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Regular Meeting.

Present: Bryan P. Andaya, Chair
Kapua Sproat, Vice Chair via WebEx
Ray C. Soon, Board Member
Max J. Sword, Board Member
Na'alehu Anthony, Board Member
Dawn B. Szewczyk, Board Member, Ex- Officio
via WebEx

Also Present: Ernest Lau, Manager and Chief Engineer
Ellen Kitamura, Deputy Manager and Chief Engineer
via WebEx
Jadine Urasaki, Assistant Program Administrator,
Capital Projects Division via Vimeo
Garon Hamasaki, Civil Engineer IV,
Customer Care Division via WebEx
Kathleen Elliott-Pahinui, Information Officer,
Communications Office via WebEx
Raelynn Nakabayashi, Executive Assistant I,
Executive Support Office via WebEx
Jason Nikaido, Program Administrator,
Field Operations Division via WebEx
Joseph Cooper, Waterworks Controller,
Finance Division via WebEx
Michele Thomas, Executive Assistant I,
Human Resources Office via Vimeo
Henderson Nuuhiwa, Program Administrator,
Information Technology Division
via Vimeo
Erwin Kawata, Program Administrator,
Water Quality Division via WebEx
Barry Usagawa, Program Administrator,
Water Resources Division via WebEx
Kevin Ihu, Program Administrator,
Water System Operations Division
via Vimeo
Kathy Mitchell, Administrative Services Officer
via WebEx
Deanna Thyssen, Manager Secretary via WebEx
Steven Norstrom, Information Specialist II,
Communications Office

Stella Bernardo, Information Specialist II,
Communications Office via WebEx
Michele Harman, Community Relations Specialist I,
Communications Office via WebEx
Keoni Mattos, Information Specialist II,
Communications Office via WebEx

Others Present: Jeff Lau, Deputy Corporation Counsel
via WebEx
Moana Yost, Deputy Corporation Counsel
via WebEx

Absent: Jade T. Butay, Board Member, Ex-Officio

REGULAR MEETING

Chair Bryan Andaya welcomed everyone to the June 27, 2022, Regular Meeting of the Board of Water Supply (BWS). Before beginning the meeting he went over a few meeting regulations required by law. Board Members attending the Board Meeting remotely must be visible to the public to be considered present and meet quorum guidelines. He also stated that during roll call Board Members participating remotely must disclose their location and anyone that may be present at their location.

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

Chair Andaya requested a roll call for the Regular Meeting and asked those participating remotely to keep their cameras on during the meeting to comply and meet quorum guidelines. Chair Andaya asked each Board Member to respond verbally and state who is present in the room if participating via WebEx when their names were called. Vice Chair Kapua Sproat, aye and alone at her current location; Board Member Ray Soon, aye and in the Board room; Board Member Max Sword, aye and in the Board room; Board Member Na'alehu Anthony, aye and in the Board room; Board Member Dawn Szewczyk, aye and alone at her current location. Chair Andaya was present in the Boardroom.

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

Chair Andaya introduced those present in the Boardroom, Manager Ernest Lau, Board Secretary Joy L. Cruz-Achiu, and Steven Norstrom, Information Specialist II, Communications Office. Joining via WebEx to monitor public testimony is Keoni Mattos, Information Specialist II, Communications Office. Joining from the City and County Corporation Counsel were Deputy Jeff Lau and Deputy Moana Yost via WebEx.

The following procedures are in effect for the meeting:

Chair Andaya shared the various ways to submit testimony: Written testimony may be submitted by email to board@hbws.org, by fax to (808) 748-5079; mailed to Board of Water Supply, 630 S. Beretania St., Honolulu, HI 96843; or online at the boardofwatersupply.com/testimony, which were all due on Monday, June 27, 2022, at noon. However, late testimony will be accepted by email, fax, or mail. Telephone testimony is accepted by calling (808)748-6040, where you will be put in the queue and allowed to testify one at a time. In-person testimony is being accepted at the Board of Water Supply, Public Service Building located at 630 S. Beretania St. Honolulu, HI 96843. Pursuant to HRS Section 92-7.5, Board Meeting materials are available to view on our website at www.boardofwatersupply.com/boardmeeting.

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

Chair Andaya announced that he would be taking the agenda out of order, starting with the item for information, item number one, "Update on the Board of Water Supply's Response to the Potential Impacts of the Red Hill Fuel Contamination".

ITEM FOR INFORMATION NO. 1

"June 27, 2022

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

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

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

Ernest Lau, Manager & Chief Engineer; Erwin Kawata, Program Administrator, Water Quality Division; Barry Usagawa, Program Administrator, Water Resources Division; and Kathleen Elliott-Pahinui, Information Officer, Communications Office, 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:

Ernest Lau, Manager & Chief Engineer; Erwin Kawata, Program Administrator, Water Quality Division; Barry Usagawa, Program Administrator, Water Resources Division; and Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave the report.

Board Member Max Sword asked Ms. Kathleen Elliott-Pahinui if the BWS received any public service announcement (PSA) consideration from the media.

Ms. Elliott-Pahinui responded that the BWS is a non-profit government utility that has the privilege of using the media to share information. The media has been a great partner and generally has matched the BWS's TV buys with PSA's and the BWS has been able to double its reach and frequency.

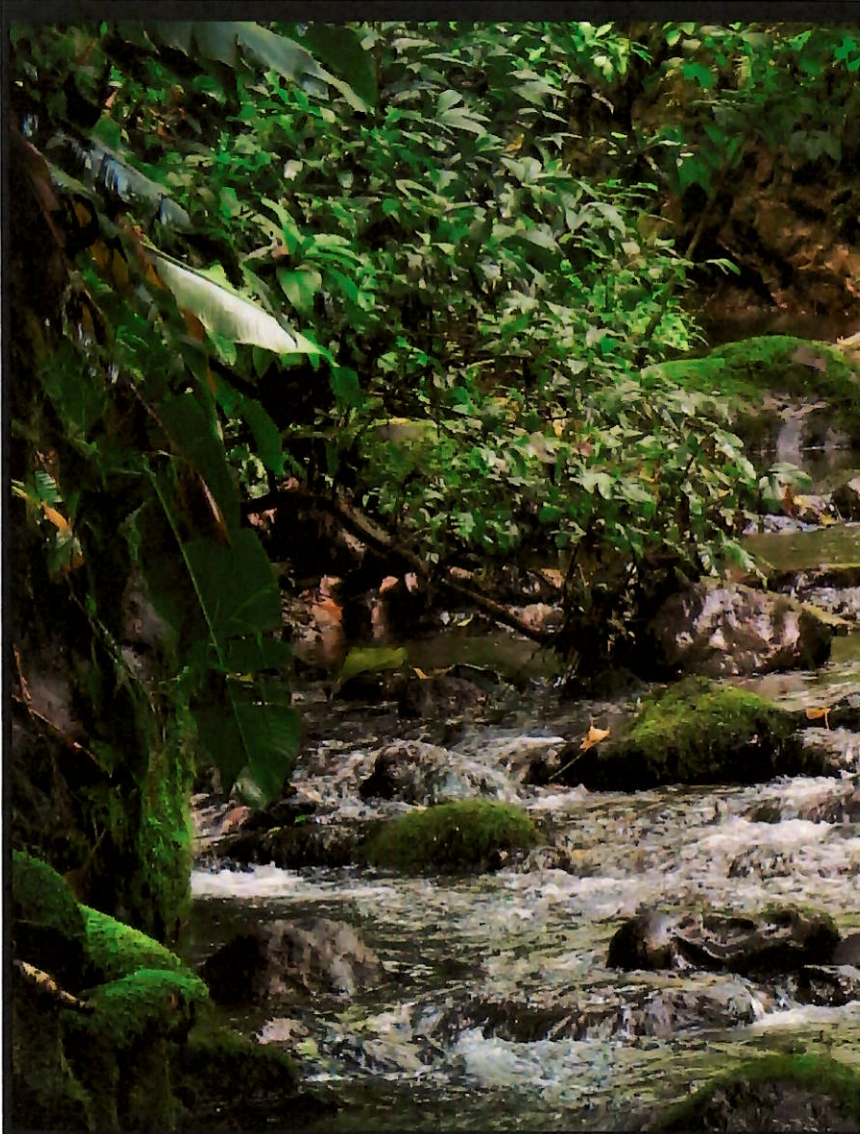
Chair Andaya inquired if the BWS is continuing with targeted water conservation messaging.

Ms. Elliott-Pahinui replied that BWS will continue fo do targeted water conservation messaging.



UPDATE ON THE BWS RESPONSE TO THE POTENTIAL IMPACTS OF THE RH CONTAMINATION

Monday, June 27, 2022
boardofwatersupply.com

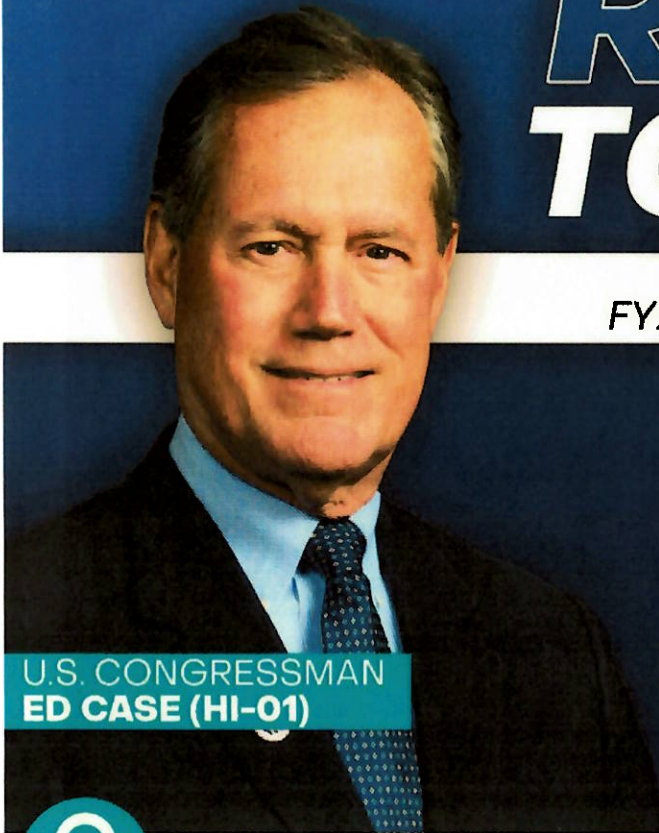


JOIN US ON **MONDAY, JUNE 20 @ 6PM-9PM HST**

RED HILL TOWN HALL

*To discuss Red Hill provisions in the
FY23 NDAA and House Appropriations bill.*

WITH SPECIAL GUEST



**U.S. CONGRESSMAN
ED CASE (HI-01)**



**ERNIE LAU
CHIEF ENGINEER, BWS**



**U.S. CONGRESSMAN
KAI KAHELE (HI-02)**



MOANALUA PERFORMING ARTS CENTER
2825 Ala Ilima St, Honolulu, HI 96818

KaheleHI02@mail.house.gov • (808) 746-6220
Ed.Case@mail.house.gov • (808) 650-6688

U.S. HOUSE ARMED SERVICES COMMITTEE (HASC)

As a member of HASC, Representative Kaiali'i Kahele (D-HI) works closely with the committee to write the annual National Defense Authorization Act (NDAA). This critical piece of national security legislation sets the funding levels, expenditures and authorizations for the Department of Defense every fiscal year. The House and Senate Armed Services Committee write separate versions of the bill for their respective chambers of Congress. The two versions are then conferenced into a final bill which is sent to the president's desk to be signed into law. For 61 years in a row, Congress has fulfilled its constitutional obligation to "provide for the common defense" by passing the annual NDAA.

KAHELE HASC COMMITTEE SUBCOMMITTEE ASSIGNMENTS

- **TACTICAL AIR AND LAND:** Tactical air and missile defense programs and accounts; chemical agent and munition destruction programs and accounts; National Guard and Reserve equipment programs and accounts; etc.
- **READINESS:** DoD policy, programs and accounts related to military readiness, training, logistics and maintenance, military construction, organic industrial base, the civilian and contract workforce, environment, military installations and real property management, family housing, base realignments and closures and energy.

The Appropriations Process

1. The President submits his budget request on or by the first Monday in February.

2. The Congressional Budget office submits their report on the President's proposal to the Budget Committee.

3. Committees submit requests to the Budget Committee, who then report a concurrent resolution to Congress.

4. The House and Senate adopt a budget resolution, setting spending limits for each committee (302(a) allocations) by April 15th.

5. Each House Appropriations subcommittee develops its assigned appropriations bill.

6. The House Appropriations Committee reviews, and passes, each of the 12 bills by June 10th.

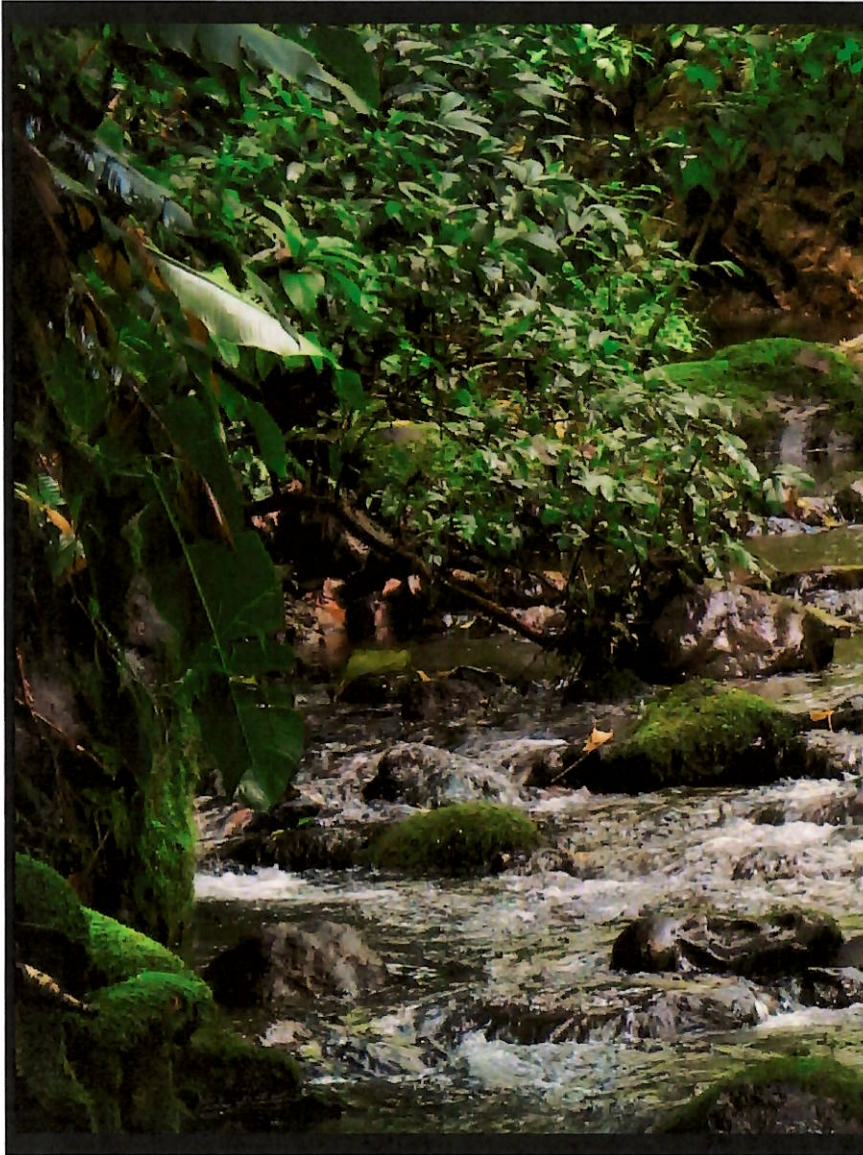
7. Each of the 12 appropriations bills are voted on in the House and Senate.

8. Differences between the chambers are reconciled in a conference committee by June 30th.

9. The President signs the consolidated appropriations bills (12 total) by October 1st.

What's Next?

- The FY 2023 funding bills will be considered by the full U.S. House Committee on Appropriations later this month, and the full House is expected to **vote on the bills in July**.
- The goal is to make the **funds available starting October 1, 2023**, though the exact date that final version of the bills will be signed into law is yet to be determined.
- Pending that, **the \$1.1 billion in previous emergency appropriations** secured by the delegation for current FY 2022 is being utilized for ongoing activities.



CWRM UPDATE

Barry
Usagawa

Monday, June 27, 2022
boardofwatersupply.com

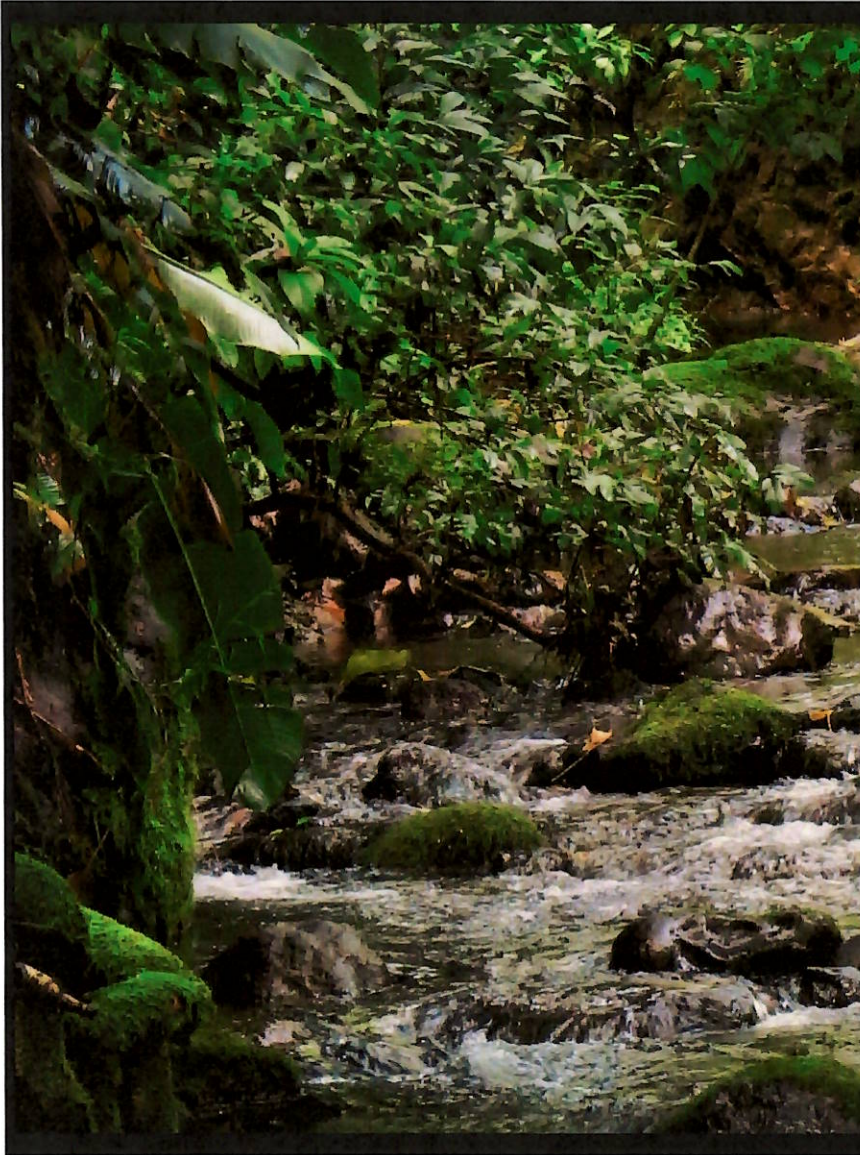




RESPONSE ACTIONS

Erwin Kawata

Monday, June 27, 2022
boardofwatersupply.com



HOW ARE WE RESPONDING TO THIS CRISIS?

- **IMMEDIATE RH RESPONSE PROJECTS:**

- **Replacement Wells** - construct 5-6 exploratory wells in Waimalu & possibly Moanalua to replace 3 pump stations shut down due to Red Hill fuel contamination
- **Aquifer Investigation** - install 4 sentinel monitoring wells in Halawa Valley to investigate aquifer contamination
- **Interconnect Water Systems** – Pearl City 285' water system with Metro 180' and Aiea-Halawa 277' water systems
- **Test Pump Existing Unused Wells** - Waimalu II, Kaonohi II and Kaamilo pump 2 for yield and chloride levels (salinity)
- **Test Pump Existing Well** - Waialae Nui Valley Well
- **Complete Repairs of Existing Well Pump Stations** - Kalihi Pump Station and Kalauao Wells
- **Expand Water Conservation and Outreach**
- **Adjust water system operations** – e.g., Waipio water to Honolulu, Kaamilo Wells to Aiea-Halawa

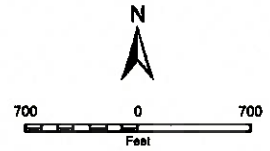


HOW ARE WE RESPONDING TO THIS CRISIS?

- **LONGER TERM PROJECTS:**

- Ewa Shaft Well Field
- Kunia Wells IV
- Waikele Gulch Wells
- Kalaeloa Seawater Desalination Facility (Design-Build, Operate and Maintain 20 yr)





Sources:
 Aerial – Dahu Imagery services, dated 2010;
 Wells – CWRM, 2015.

Legend

- ◆ Approximate Monitoring Well Location - Drilling in 2022
- Tank
- ⬛ Red Hill Bulk Fuel Storage Facility





COMMUNICATIONS

Kathleen Elliot-Pahinui

June 27, 2021

boardofwatersupply.com

CONSERVATION INITIATIVES

- Hawaii News Now Water Wisdom Wednesdays
 - Mayor Blangiardi
 - Kamana Beamer
- Water Audits – 2 hotel audits with our partner
- Hotel Partnership – starting to roll out collateral for the chain
- Hawaii Community Foundation
 - – Fresh Water Council
- Op/Eds
- Radio and Television PSAs



NEW TV SPOT



CONSERVATION OUTREACH

- Hawaii Tourism Authority
- Hawaii Lodging & Tourism Assn
- Hawaii Hotel Alliance
- Hawaii Acute Care Assn
- NAIOP, BOMA
- General Contractors Assn
- Developers, LURF
- Hospitals
- Shopping Centers
- State Agencies
- City Agencies
- University of Hawaii
- Large Condominiums
- Golf Courses
- Neighborhood Boards
- Community Groups
- Letters to top 600 water users in affected water systems
- Pilot hotel program
- Events (BIA, disaster prep)

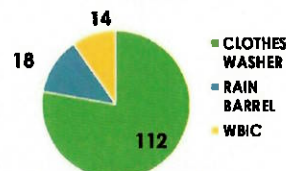


Water Sensible Monthly Dashboard May 2022

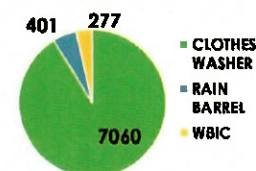
AT-A-GLANCE OVERALL REBATES AND WATER SAVINGS

TOTAL	METRICS
\$562,524	(\$) REBATES PROVIDED
7,738	(QTY) REBATES PROVIDED
48,676,100	GALLONS SAVED PER YEAR
653,103,100	LIFETIME GALLONS SAVED

APPLICATIONS RECEIVED THIS MONTH*

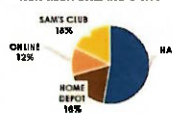


TOTAL REBATES PROVIDED

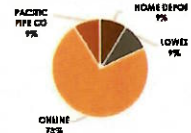


*APPLICATIONS RECEIVED INCLUDES MAIL-IN AND EMAILED APPLICATIONS.

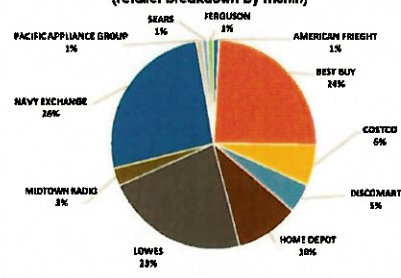
RESIDENTIAL RAIN BARREL RETAILER BREAKDOWN



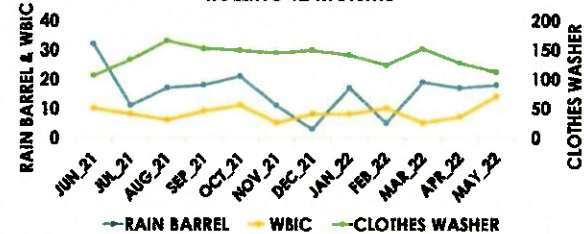
WBIC RETAILER BREAKDOWN



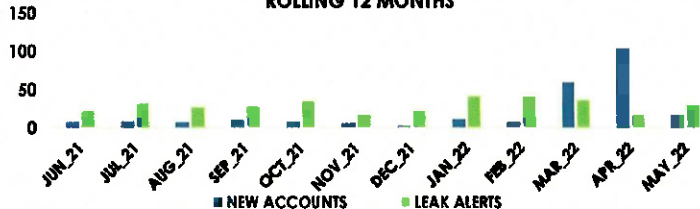
CLOTHES WASHER RETAILER BREAKDOWN (retailer breakdown by month)



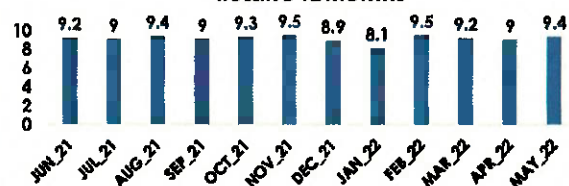
MONTHLY REBATE APPLICATIONS ROLLING 12 MONTHS



WATERSMART CUSTOMER ENGAGEMENT ROLLING 12 MONTHS



CUSTOMER SATISFACTION SURVEY RESULTS ROLLING 12 MONTHS

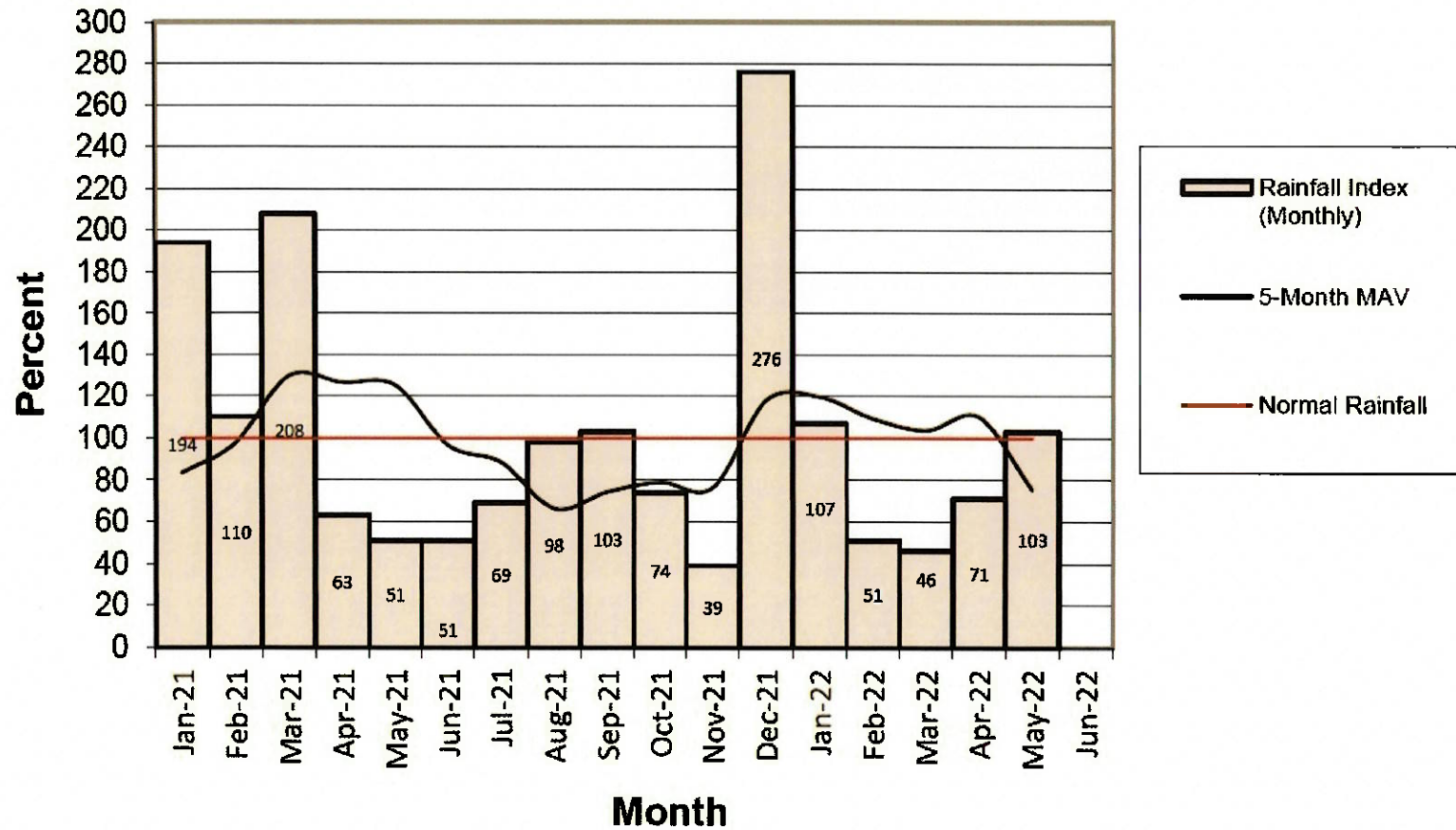


WaterSensible

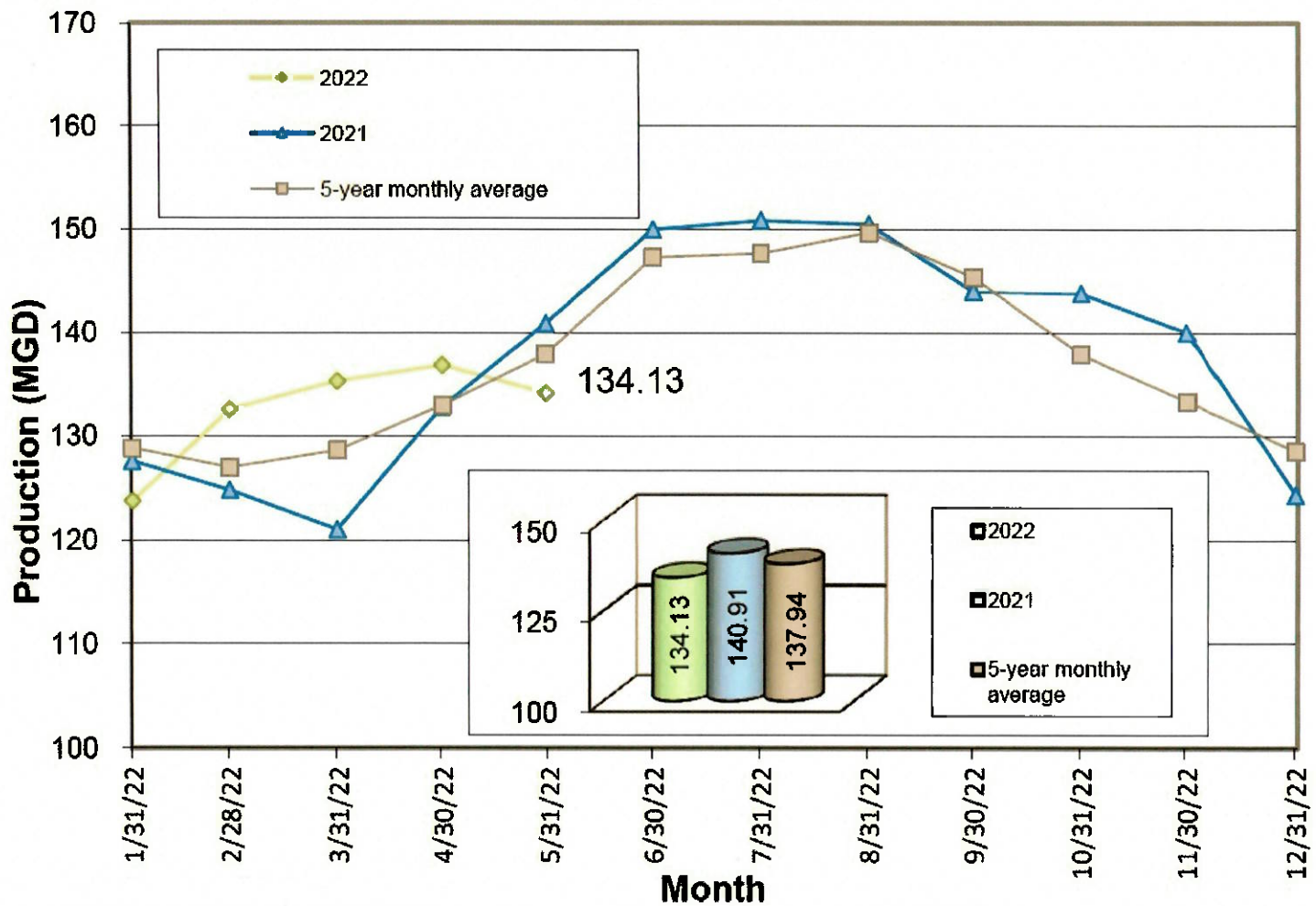
WATER CONSERVATION PROGRAM



HONOLULU WATERSHED AREA Rainfall Intake



Monthly Production





MAHALO!

THERE IS NO
SUBSTITUTE FOR PURE
WATER!

boardofwatersupply.com

APPROVAL OF MEETING

Approval of the Minutes of the Public Hearing and Regular Meeting Held on May 23, 2022.

MOTION TO APPROVE

Na'alehu Anthony and Max Sword motioned and seconded, respectively, to approve the Minutes of the Public Hearing and Regular Meeting on May 23, 2022.

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

THE MINUTES OF THE PUBLIC HEARING AND REGULAR MEETING HELD ON MAY 23, 2022 WERE APPROVED AT THE JUNE 27, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON			ABSTAINED
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

APPROVAL OF
BOARD OF
WATER SUPPLY
COMMERCIAL
STAKEHOLDER
ADVISORY
GROUP

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

Chair and Members:

Subject: Approval of Board of Water Supply Commercial Stakeholder
Advisory Group

As the Board of Water Supply (BWS) continues to navigate through the Red Hill crisis and its impact on our water system, management is recommending the formation of a Commercial Stakeholders Advisory Group (CSAG) comprised of non-residential customers to provide input. This group would be similar to the Stakeholders Advisory Group (SAG) that was established in 2015 and comprised of community groups, residents and organizations to assist the BWS as it developed the Water Master Plan and rate study. Establishment of the SAG is one of many BWS initiatives that demonstrate our commitment to increase the consistency and transparency of our communications and public engagement. We believe the establishment of a similar group for businesses will do the same.

Objectives

While our non-residential (ie. commercial) customers represent only about 10% of our total customer base, they use about 35% of the water consumed daily. BWS’s objectives in forming the CSAG are to improve these industries understanding of our island’s complex water issues, their own water use, and seek their input as we address the impacts to our water system. Additionally, the CSAG will enable BWS to further develop trust and confidence with this group towards our mission of providing safe, dependable and affordable water now and into the future.

Composition

The CSAG will consist of approximately 25 highly respected businesses and private and government organizations with expertise in many disciplines and who have an active and ongoing interest in issues relevant to the BWS.

- | | |
|--------------|---------------------------|
| Development | Real Estate |
| Finance | Food Service |
| Construction | Travel/Tourism |
| Government | Business – Retail/Service |
| Golf Courses | Hospitals |

Roles and Responsibilities

The CSAG will attend a series of BWS meetings to consider topics and issues that impact our water resources and infrastructure. Members will be encouraged to serve as ambassadors, sharing information with others in their community and organizations.

The group will function in an advisory capacity and does not have decision-making authority. It will make recommendations to staff and the Board of Directors of the Board of Water Supply.

Meetings Open to Public

The Department of Corporation Counsel has advised that the CSAG is not subject to the Hawaii Sunshine Law. That said, operating protocols will follow the intent of the Sunshine Law in that meetings will be open to the public and announced in advance on the BWS's website. Time for public comment will be made available at each meeting, and meeting notes will be prepared and made available to the public, along with meeting materials, following each meeting.

BWS Commitment

In forming this CSAG, the BWS commits to 1) provide the staffing and resources to support the group's meetings, 2) provide accurate and transparent information, and 3) review and consider input and advisement provided by the group.

We recommend that the Board approve the formation of the Commercial Stakeholder Advisory Group and require BWS staff to present annual updates to the Board, including a review of input and advisement provided by the group.

Respectfully Submitted,

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

Attachment"

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

Board Member Na'alehu Anthony inquired how the BWS selects the members for the Commerical Stakeholder Advisory Group (CSAG).

Manager Ernest Lau replied that the BWS first considers the various contractor organizations such as the General Contractors (GCA), Building Industry Association (BIA), and Association of Building Contractors (ABC); State agencies such as Hawaii Housing Finance & Development (HHFDC), Public Housing Authority, and Department of Accounting and General Services (DAGS); and non-profit organizations. The BWS also accepts recommended individuals that can contribute industry insights.

Board Member Ray Soon recommended the BWS include the Department of Education (DOE) and the Hotel industry in the CSAG.

Manager Lau responded that some of the Stakeholder Advisory Group (SAG) members also serve in industry groups and may be tapped for CSAG. He shared that the BWS is currently performing hotel and

restaurant water audits to help with water conservation while building a great partnership.

Board Member Soon asked who in the BWS would manage the CSAG.

Manager Lau responded that the Communications Office would manage CSAG.

Chair Andaya expressed his concern about the amount of personnel it would take and having to balance multiple Stakeholder Advisory Groups.

Ms. Elliott-Pahinui assured Chair Andaya that the Communications Office has enough personnel to take on the challenge of a CSAG.

Manager Lau commented that the CSAG is extremely valuable as it brings important input and feedback.

Chair Andaya asked that the construction, engineering, and architectural industries be included in the CSAG. He commented that to be successful the BWS needs everyone to be included.

**MOTION
TO APPROVE**

Ray Soon and Max Sword motioned and seconded, respectively, to approve the Approval of the Board of Water Supply Commercial Stakeholder Advisory Group.

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

APPROVAL OF THE BOARD OF WATER SUPPLY COMMERCIAL STAKEHOLDER ADVISORY GROUP WAS APPROVED ON JUNE 27, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

"June 27, 2022

ADOPTION OF
RESOLUTION
NO. 942, 2022,
ACCEPTANCE
OF GIFT TO THE
BOARD OF
WATER SUPPLY
FROM DETAIL
GARAGE HAWAII
FOR WATER
CONSERVATION
PROMOTIONS

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

Chair and Members:

Subject: Adoption of Resolution No. 942, 2022, Acceptance of Gift to
the Board of Water Supply from Detail Garage Hawai'i for
Water Conservation Promotions

We recommend acceptance of the proposed gift to the Board of Water Supply (BWS), City and County of Honolulu, from Detail Garage Hawai'i of waterless car wash kits valued at \$435.00, in support of "Less is More!," a BWS social media water conservation contest.

"Less is More!" will run from July 1, 2022 through July 18, 2022. The goal is to raise awareness and encourage the public to conserve water.

On average, an O'ahu household uses about 6,000 gallons of water per month or 200 gallons of water per day. The BWS is asking for a voluntary reduction of 10% or about 20 gallons per day. This contest will engage the community in making easy water-saving choices to help them reach that target.

We greatly appreciate the continued participation and commitment of our community partners and customers as they embrace their role as stewards of our precious water resource.

Respectfully Submitted,

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

Attachment"

DISCUSSION:

Kathleen Elliott-Pahinui, Information Officer, Communications Office, gave the report. There were no comments or discussion.

MOTION
TO APPROVE

Na'alehu Anthony and Max Sword motioned and seconded, respectively, to approve the Adoption of Resolution No. 942, 2022, Acceptance of Gift to the Board of Water Supply from Detail Garage Hawaii for Water Conservation Promotions.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say "Aye." The Board members present responded with a verbal "Aye." Chair Andaya then inquired if any Board Members would like to object or vote

"Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

ADOPTION OF RESOLUTION NO. 942, 2022, ACCEPTANCE OF THE BOARD OF WATER SUPPLY FROM GARAGE HAWAII FOR WATER CONSERVATION PROMOTIONS WAS ADOPTED JUNE 27, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF
HONOLULU

RESOLUTION NO. 942, 2022

**ACCEPTANCE OF GIFT FROM DETAIL GARAGE HAWAII, IN SUPPORT OF THE
LESS IS MORE! WATER CONSERVATION CAMPAIGN**

WHEREAS, the Board of Water Supply's (BWS) Less is More! campaign will be conducted from July 1, 2022, through July 18, 2022, encouraging all Oahu residents to conserve water; 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, Detail Garage Hawaii is offering a gift of waterless car wash kits valued at \$435.00 in support of the BWS's Less is More! campaign; and

WHEREAS, the generous gift from Detail Garage Hawaii is part of a campaign that encourages water users to save water not only during car washing, but throughout their households; and,

WHEREAS, saving water helps eliminate water waste, saves customers money, and is an essential component of effective water management; and

BE IT RESOLVED that the BWS hereby accepts the gift valued at \$435.00 and directs the Manager and Chief Engineer, or his delegate, to accept and thank Detail Garage Hawaii for this gift.

ADOPTED:


BRYAN P. ANDAYA
Chair of the Board

Honolulu, Hawaii
June 27, 2022

RESOLUTION NO. 942, 2022, ACCEPTANCE OF GIFT FROM DETAIL GARAGE HAWAII, IN SUPPORT OF THE LESS IS MORE! WATER CONSERVATION CAMPAIGN, ADOPTED ON JUNE 27, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

“June 27, 2022

ADOPTION OF
RESOLUTION
NO. 943, 2022
REIMBURSEMENT
OF CAPITAL
EXPENDITURES
FROM THE
PROCEEDS OF
INDEBTEDNESS

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

Chair and Members:

Subject: Adoption of Resolution No. 943, 2022, Reimbursement of
Capital Expenditures from the Proceeds of Indebtedness

We recommend adoption of Resolution No. 943, 2022, Declaring the Official Intent of the Board of Water Supply of the City and County of Honolulu to Reimburse Itself for Certain Capital Expenditures from the Proceeds of Indebtedness.

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

The Resolution establishes a limit of \$181,109,325 and attaches the FY 2023 Capital Improvement Program.

Respectfully Submitted,

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

Attachment”

DISCUSSION: Joseph Cooper, Waterworks Controller, Finance Division, gave the report. There were no comments or discussion.

MOTION TO APPROVE Ray Soon and Na’alehu Anthony motioned and seconded, respectively, to approve the adoption of Resolution No. 943, 2022, Reimbursement of Capital Expenditures from the Proceeds of Indebtedness.

Chair Andaya asked Information Specialist, Mr. Steven Norstrom if there was anyone on the telephone to testify. Mr. Norstrom responded that there was no one waiting to testify on the telephone. Chair Andaya asked Board Secretary Ms. Cruz-Achui if there were any written testimony or if anyone was waiting in person to testify. Ms. Cruz-Achui responded that there was no written testimony or no one in person to testify.

In lieu of a roll call vote, Chair Andaya requested a voice vote on the motion and requested that Board Members in favor of the motion say “Aye.” The Board members present responded with a verbal “Aye.” Chair Andaya then inquired if any Board Members would like to object or vote

"Nay" on the motion. There were no objections or "Nay" votes. Chair Andaya announced that the motion was unanimously carried.

ADOPTION OF RESOLUTION NO. 943, 2022, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS, WAS ADOPTED JUNE 27, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU

RESOLUTION NO. 943, 2022

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

WHEREAS, the Board intends to provide for the acquisition, construction, rehabilitation and/or equipping of certain capital facilities for the Board constituting water system facilities and other capital improvements for the use and benefit of the Board comprising improvements related to the FY 2023 Capital Improvement Program and other related facilities (the "Project"); and

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

WHEREAS, the Board reasonably expects that debt obligations for the Project in an amount not expected to exceed \$181,109,325 will be issued and that certain of the proceeds of such debt obligations will be used to reimburse the Reimbursement Expenditures; and

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

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

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

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

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

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

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

ADOPTED:



BRYAN P. ANDAYA
Chair

Honolulu, Hawaii
June 27, 2022

ADOPTION OF RESOLUTION NO. 943, 2022, REIMBURSEMENT OF CAPITAL EXPENDITURES FROM THE PROCEEDS OF INDEBTEDNESS, ADOPTED ON JUNE 27, 2022			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY			ABSENT
DAWN B. SZEWCZYK	X		

ITEM FOR INFORMATION NO. 2

“June 27, 2022

WATER SYSTEM
REVENUE
BONDS -
COMPLIANCE
WITH RATE
COVENANT

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

Chair and Members:

Subject: Water System Revenue Bonds – Compliance with Rate
Covenant

In accordance with Article VIII, Section 8.02, Rates and Charges, of the Water System Revenue Bonds, Resolution No. 717, 2001, we have completed a review of the financial condition of the Board of Water Supply for the purpose of estimating whether the Net Revenues for the current fiscal year and the next succeeding fiscal year will be sufficient to comply with the rate covenant in Section 8.02.

Our review included an examination of the financial and accounting records which we considered necessary to express an opinion on the adequacy of the department's rates and other charges such that Net Revenues shall not be less than the Net Revenue Requirement in each fiscal year.

In our opinion, Net Revenues for fiscal years 2022 and 2023 will not be less than the Net Revenue Requirement for such fiscal years.

The attached schedules present the actual and estimated revenues and expenditures in compliance with the above rate covenant.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION: Joseph Cooper, Waterworks Controller, Finance Division, gave the report.

Chair Andaya inquired if the 1.2 ratio for Aggregate Debt Service is included in the Water Master Plan.

Mr. Joseph Cooper replied that it is not included in the Water Master Plan (WMP). The 1.2 ratio is the bond covenant that is in agreement with the bondholders which was approved in Resolution 717, 2001, and complies with the BWS Financial Policy. The BWS exceeded the All-In coverage ratio of 1.7 which is not in the BWS agreement with the bondholders.

Chair Andaya asked if the BWS Financial Policy applies to the WMP.

Mr. Cooper responded that the BWS Financial Policy is separate from the WMP. The Long Range Financial Plan (LRFP) was developed during the WMP.

Board Member Soon stated that the current projected ratio is 4.67 and the Fiscal Year 2023 estimated ratio is 2.07. He asked what the estimated ratio was for Fiscal Year 2022.

Mr. Cooper responded that the BWS's budgeting is very conservative, therefore, the ratio that is budgeted would be less than the four times that is recognized.

Board Member Soon commented that he's had the same concern each year, that is the BWS collecting too much money.

Mr. Cooper replied that the BWS has a covenant of a 1.2 debt service ratio with a targeted ratio of 1.7 which is stated in the LRFP. Currently, the BWS is rated with a rating of AA Plus and AAA by rating agencies. The BWS could pay higher interest rates on future bond issues if the BWS falls below the AAA rating.

Manager Lau added that the BWS working on a new rate study, keeping affordability in mind to what the ratepayers can afford

Board Member Soon agreed with Mr. Cooper that balance is important.

Manager Lau commented it is important to find a balance that is affordable and consistent with the BWS's mission statement.

Vice Chair Kapua Sproat stated that one of the issues that the BWS continues to face is finding the balance between water rates and water main repairs. She suggested to maintain the rate balance, the remaining revenue be used to repair additional miles of pipeline.

Board Member Anthony commented that federal interest rates are rising. He is curious about the impact of inflation and the cost of borrowing on the BWS. It's important to keep the water rates as low as possible for the ratepayers but ensure that we also keep our critical infrastructure healthy.

Manager Lau added to Board Member Anthony's comment about critical infrastructure. The BWS did not anticipate dealing with the Red Hill crisis when the 2016 WMP was done. He agreed with Board Member Anthony that inflation and the cost of borrowing money are rising. Therefore, Mr. Cooper is looking into the Water Infrastructure Finance and Innovation Act (WIFIA) loan program offered by the United States (US) Environmental Protection Agency (EPA). Manager Lau asked Mr. Cooper to share information about WIFIA loans.

Mr. Cooper clarified that the net revenues listed in the Water Systems Revenue Bond report do not include Capital Improvement Program (CIP)

projects which maintain and expand the water infrastructure, but are the net revenue that is collected to make bond payments after the BWS operations cost.

Mr. Cooper shared that the WIFIA loan has been available for several years. The BWS is working with financial advisors to draft a Letter of Interest (LOI). It was just announced that the EPA would begin accepting LOI in September 2022. The WIFIA loan provides a low-cost interest loan that provides flexibility to reduce the interest and lock in low rates regardless of fluctuation.

Manager Lau added that rate lock allows the BWS to lock in the rate when the loan is executed. If the loan is approved the BWS is not required to draw from the loan instantly, but when the BWS decides to borrow and interest rates have lowered the US EPA has allowed borrowers to lock in the loan at the lower rate.

Mr. Cooper added that interest on a WIFIA loan does not begin until the money is borrowed, which allows additional interest savings.

Board Member Soon asked if the WIFIA loan is funded by the Federal Government.

Mr. Cooper responded that the WIFIA loan is a Federal funded loan.

BOARD OF WATER SUPPLY
CITY AND COUNTY OF HONOLULU
SUPPLEMENTAL SCHEDULE OF NET REVENUE REQUIREMENT
PROJECTED AS OF JUNE 30, 2022

		<u>Amount</u>
REVENUES		
Water sales	\$	245,983,000
Interest		6,921,000
Other		<u>6,129,000</u>
Total revenues		<u><u>259,033,000</u></u>
DEDUCTIONS		
Operating expenses		203,137,000
Less depreciation expense		<u>(47,635,000)</u>
Total deductions		<u>155,502,000</u>
Net revenues	\$	<u><u>103,531,000</u></u>
NET REVENUE REQUIREMENT		
Greater of:		
1) Aggregate debt service	\$	22,191,000
Required deposits - subordinate obligation fund		<u>22,191,000</u>
2) Aggregate debt service		22,191,000
	x	<u>1.20</u>
Net revenue requirement	\$	<u><u>26,629,200</u></u>
Target New Requirement of 1.7		37,724,700
Current ratio		4.67

Note: Subject to change after year end adjustments

ITEM FOR INFORMATION NO. 3

"June 27, 2022

AOAO
TERRAZZA/
CORTE BELLA/
LAS BRISAS/
TIBURON'S
WATER USE AND
DELINQUENT
WATER AND
DELINQUENT
WATER AND
SEWER
SERVICE
CHARGES

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

Chair and Members:

Subject: AOAO Terrazza/Corte Bella/Las Brisas/Tiburon's Water Use and Delinquent Water and Sewer Service Charges

Garon Hamasaki, Civil Engineer IV, Customer Care Division, and Deputy Corporation Counsel Jeff Lau will provide information on the recovery of delinquent water and sewer service charges from AOA Terrazza/Corte Bella/Las Brisas/Tiburon.

Respectfully Submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Garon Hamasaki, Civil Engineer IV, Customer Care Division and Deputy Corporation Counsel Jeff Lau, gave the report.

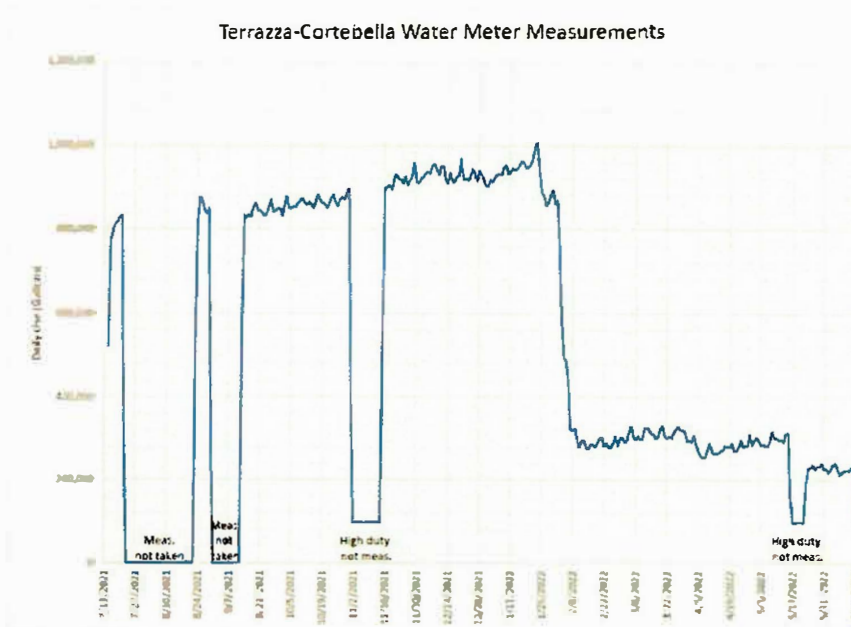
Board Member Anthony asked how much of the \$1.7 million (M) that was paid on June 2, 2022, was paid to the Department of Environmental Services (ENV) for sewer.

Manager Lau responded that the BWS would provide the Board with that information at a later time.

Manager Lau recognized City and County Corporation Counsel Mr. Jeff Lau, Deputy Manager Ellen Kitamura, the Board, and the cooperation of the Association.

Chair Andaya inquired if Terrazza/Corte Bella/Las Brisas/Tiburon's (TCLT) water use has stabilized.

Manager Lau referred to the graph below which indicated that from December 2021 to January 2022 there was a significant improvement in water consumption.



Manager Lau offered a message to other Associations, "Please stay on top of your infrastructure issues, don't let your bill get behind and into disrepair. Don't waste water, take care of it."

Board Member Sword asked what kind of effort was put into tracking TCLT's water use.

Manager Lau responded that the BWS does a water meter reading once a month, if there's an abnormally high amount of water usage the customer is contacted. Since the water use at TCLT was significant the BWS also used the meter master tool. He asked Mr. Jason Nikaido, Program Administrator, Field Operation Division to explain what is a meter master.

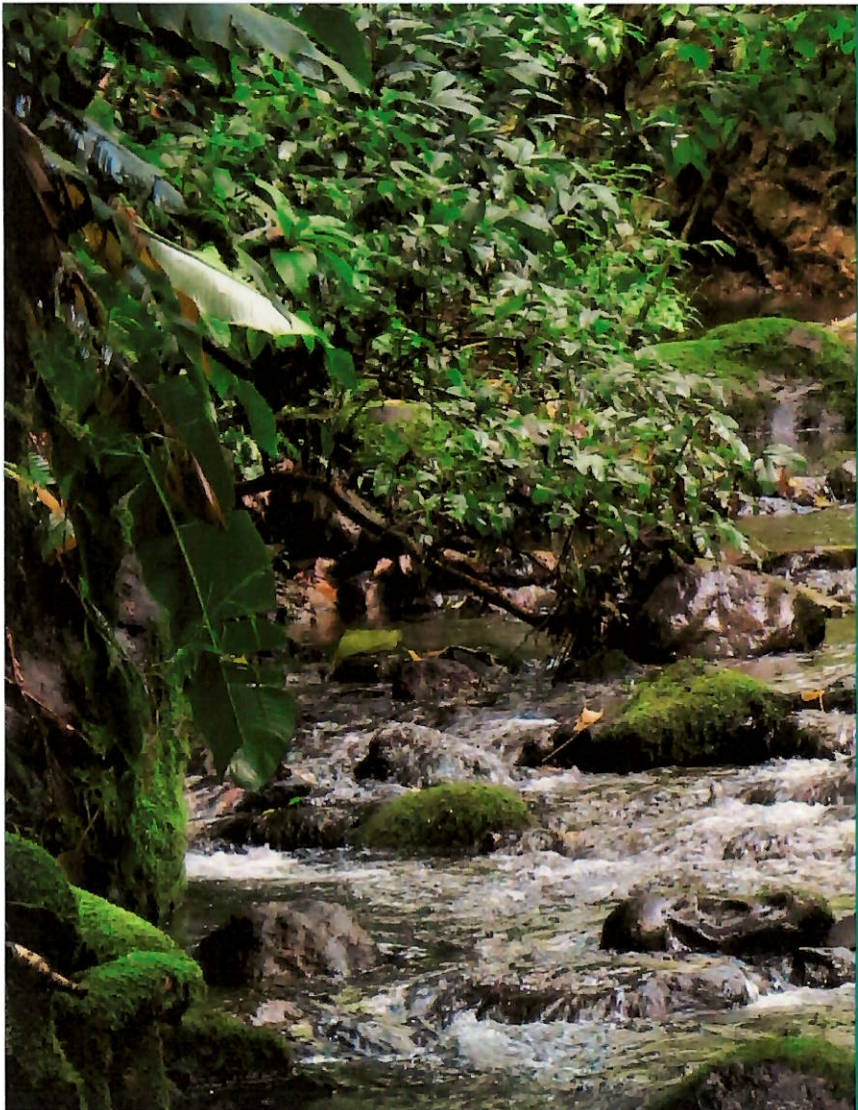
Mr. Nikaido explained that a meter master is another measuring tool that is strapped onto the meter that logs data by the minute. The information is collected once or twice a week and brought back to the BWS to be analyzed.

Board Member Soon agreed with the message that Manager Lau had to offer to other associations. He believes that in most cases the Associations want to hear more information that can benefit them. He also suggested a short presentation or a case study reader that can be handed out.

Manager Lau replied that the BWS continues water conservation efforts to reach out to property management companies.

Vice Chair Sproat expressed her mahalo to everyone that contributed to help resolve this issue. She looks forward to hearing the final outcome once all of TCLT's laterals are replaced.

Chair Andaya expressed his appreciation for the team effort that was put into resolving the TCLT issue during this critical time.



UPDATE ON AOA TCLT

TERRAZZA/CORTEBELLA/LAS
BRISAS/TIBURON

Garon Hamasaki

June 27, 2022

www.boardofwatersupply.com



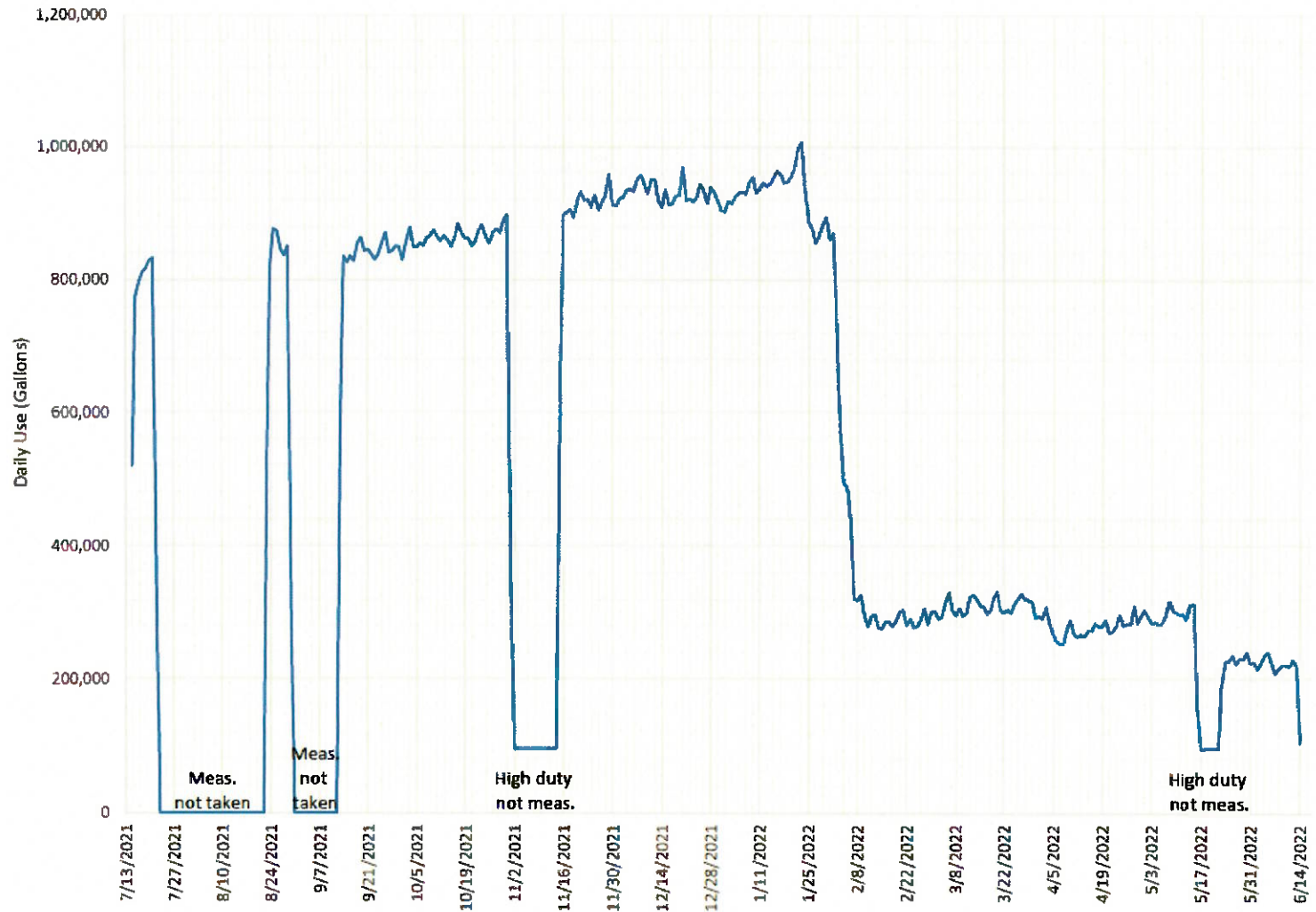
BILLING INFORMATION

- **Account is current**
- \$1,785,684.51 was paid on 6/2/22
- Total Outstanding Balance: \$120,471.14 as of 6/7/2022
 - Water: \$42,420.13
 - Sewer: \$78,051.01

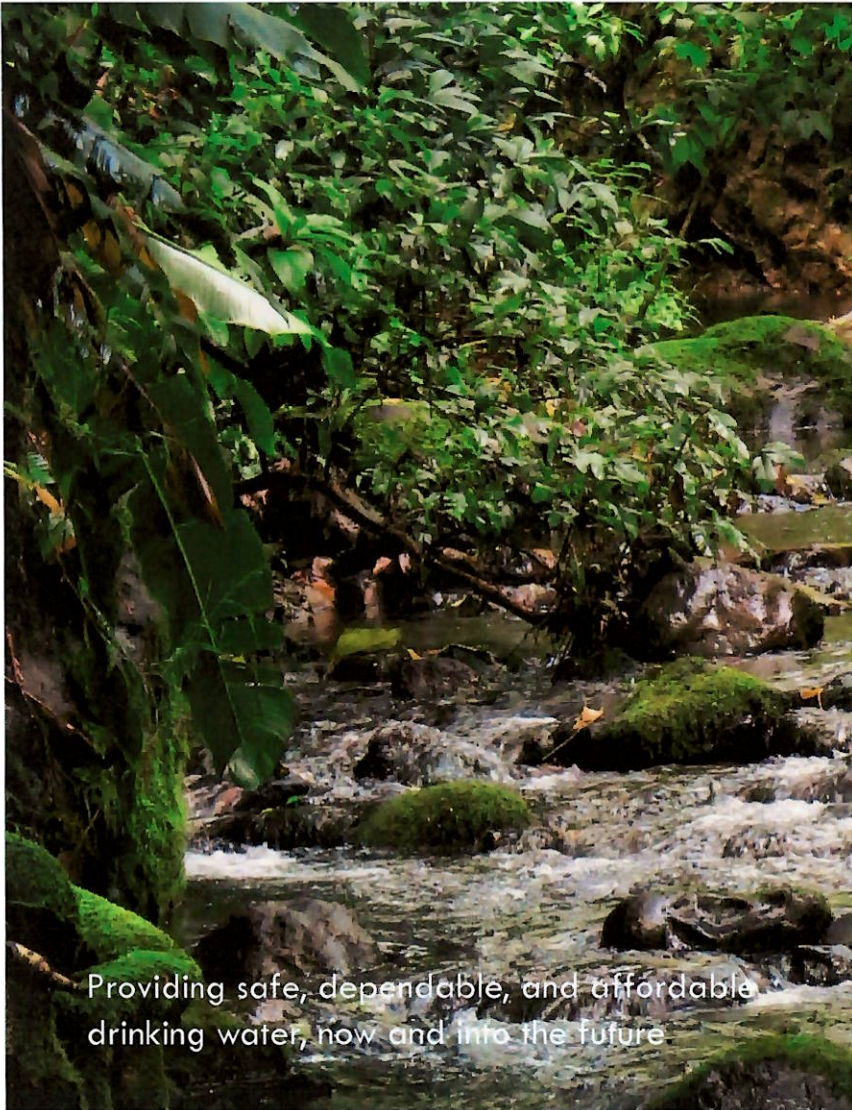
LATERAL REPLACEMENTS

- A total of 557 laterals to be replaced by October 2022
- As of June 9, 2022, 296 (53%) have been replaced

Terrazza-Cortebella Water Meter Measurements



QUESTIONS?



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



Mahalo!

BOARD OF
WATER SUPPLY



ITEM FOR INFORMATION NO. 4

“June 27, 2022

STATUS
UPDATE OF
GROUNDWATER
LEVELS AT
ALL INDEX
STATIONS

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

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

Three aquifer index stations were in low groundwater condition for the production month of May 2022. Waialua is in Caution Status. Kaimuki and Punaluu are in Alert Status. The monthly production average for May 2022 was 134.13 million gallons per day.

The Board of Water Supply (BWS) rainfall index for the month of May 2022 was 103 percent of normal, with a 5-month moving average of 76 percent. The National Weather Service (NWS) has noted that a mid-May storm event supplemented rainfall totals for portions of Oahu. This is reflected at some of the BWS rain gauges, primarily in metropolitan Honolulu.

As of June 7, 2022, the Hawaii Drought Monitor shows zero drought to severe drought conditions moving westward across Oahu. The NWS is forecasting enhanced probabilities for below-normal precipitation through November 2022.

Most monitoring wells exhibited relatively stable head levels for the month, likely due to the relatively lower overall groundwater production offsetting varying amounts of rainfall across the island. Average monthly Production for May 2022 was lower than the previous year and the 5-year monthly average.

Respectfully Submitted,

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

Attachment”

The foregoing was for information only.

DISCUSSION:

Barry Usagawa, Program Administrator, Water Resources Division, gave the report. There were no comments or discussion.

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MAY 2022**

POTABLE

STATION	MGD
HONOLULU (1)	
KULIOUOU	0.00
WAILUPE	0.06
AINA KOA	0.06
AINA KOA II	0.68
MANOA II	0.95
PALOLO	1.12
KAIMUKI HIGH	1.93
KAIMUKI LOW	2.79
WILDER	9.21
BERETANIA HIGH	2.72
BERETANIA LOW	3.90
KALIHI HIGH	0.00
KALIHI LOW	0.00
KAPALAMA	1.20
KALIHI SHAFT	8.62
MOANALUA	0.87
HALAWA SHAFT	0.00
KAAMILO	0.60
KALAUAO	7.02
PUNANANI	12.31
KAAHUMANU	0.25
HECO WAI AU	2.48
MANANA	0.27
WELLS SUBTOTAL:	57.05
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.00
GRAVITY SUBTOTAL:	0.17
HONO. SUBTOTAL:	57.22

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.00
WAIMANALO III	0.00
KUOU I	0.83
KUOU II	0.06
KUOU III	0.58
LULUKU	0.85
HAIKU	0.34
IOLEKAA	0.00
KAHALUU	0.70
KAHANA	0.36
PUNALUU I	0.00
PUNALUU II	4.58
PUNALUU III	0.90
KALUANUI	1.35
MAAKUA	0.23
HAUULA	0.26
WELLS SUBTOTAL:	11.04
WAIM. TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.38
WAIHEE TUNNEL	4.14
LULUKU TUNNEL	0.17
HAIKU TUNNEL	0.26
KAHALUU TUNNEL	1.41
GRAVITY SUBTOTAL:	6.55
WIND. SUBTOTAL:	17.59

STATION	MGD
NORTH SHORE (3)	
KAHUKU	0.40
OPANA	1.02
WAIALEE I	0.05
WAIALEE II	0.20
HALEIWA	0.00
WAIALUA	1.91
N.SHORE SUBTOTAL:	3.59

MILILANI (4)	
MILILANI I	1.26
MILILANI II	0.00
MILILANI III	0.69
MILILANI IV	2.47
MILILANI SUBTOTAL:	4.42

WAHIAWA (5)	
WAHIAWA	1.19
WAHIAWA II	1.67
WAHIAWA SUBTOTAL:	2.86

PEARL CITY-HALAWA (6)	
HALAWA 277	0.00
HALAWA 550	0.00
AIEA	0.00
AIEA GULCH 497	1.00
AIEA GULCH 550	0.38
KAONOHI I	0.98
WAIMALU I	0.00
NEWTOWN	1.64
WAI AU	1.78
PEARL CITY I	0.83
PEARL CITY II	1.02
PEARL CITY III	0.27
PEARL CITY SHAFT	0.88
PEARL CITY-HALAWA SUBTOTAL:	8.78

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	1.90
WAIPIO HTS. I	0.00
WAIPIO HTS. II	0.42
WAIPIO HTS. III	1.17
WAIPAHU	5.61
WAIPAHU II	1.85
WAIPAHU III	4.25
WAIPAHU IV	2.00
KUNIA I	3.99
KUNIA II	1.94
KUNIA III	1.48
HOAEAE	5.03
HONOULIULI I	0.00
HONOULIULI II	5.83
MAKAKILO	0.15
WAIPAHU-EWA SUBTOTAL:	35.60

WAIANAE (8)	
MAKAHA I	0.48
MAKAHA II	0.00
MAKAHA III	0.10
MAKAHA V	0.18
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.31
WAIANAE II	0.78
WAIANAE III	0.69
WELLS SUBTOTAL:	2.54
WAI A. C&C TUNNEL	1.40
WAI A. PLANT. TUNNELS	0.13
GRAVITY SUBTOTAL:	1.53
WAIANAE SUBTOTAL:	4.07

NONPOTABLE

NONPOTABLE	MGD
KALAUAO SPRINGS	0.60
BARBERS POINT WELL	1.21
GLOVER TUNNEL NP	0.29
NONPOTABLE TOTAL:	2.10

RECYCLED WATER (APRIL 2022)

RECYCLED WATER	MGD
HONOULIULI WRF R-1	6.19
HONOULIULI WRF RO	1.39
RECYCLED TOTAL:	7.57

**PRODUCTION, HEAD AND RAINFALL REPORT
MONTH OF MAY 2022**

TOTAL WATER		MGD
PUMPAGE		125.88
GRAVITY		8.24
POTABLE TOTAL:		134.13
NONPOTABLE		2.10
RECYCLED WATER		7.57
TOTAL WATER:		143.80

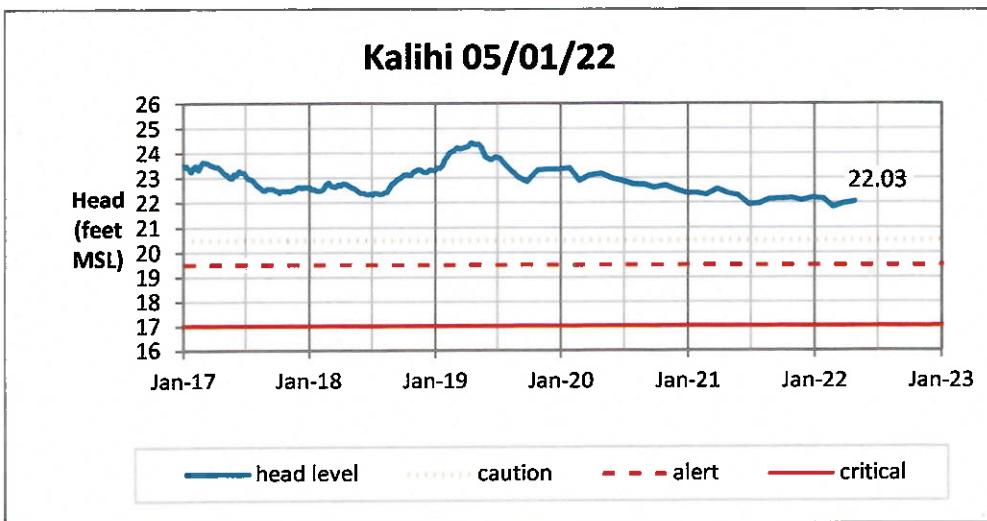
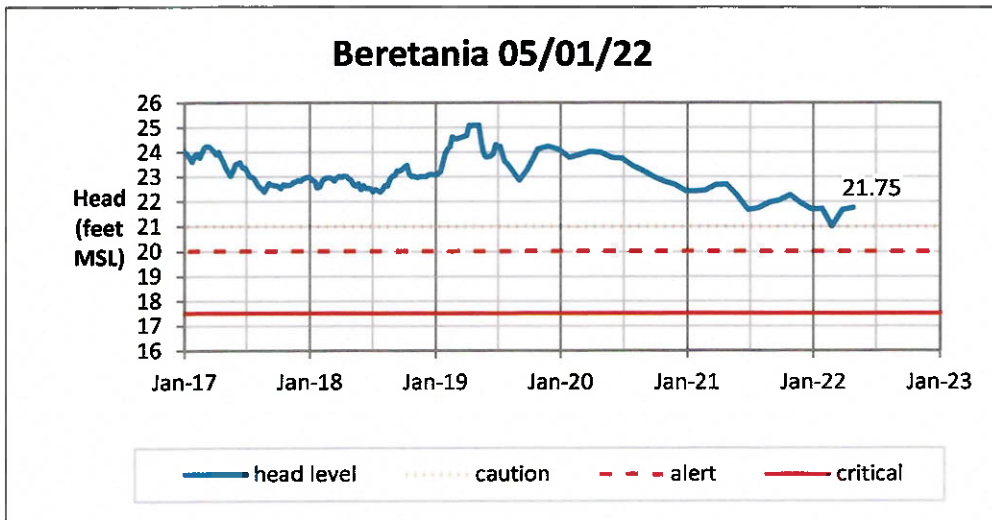
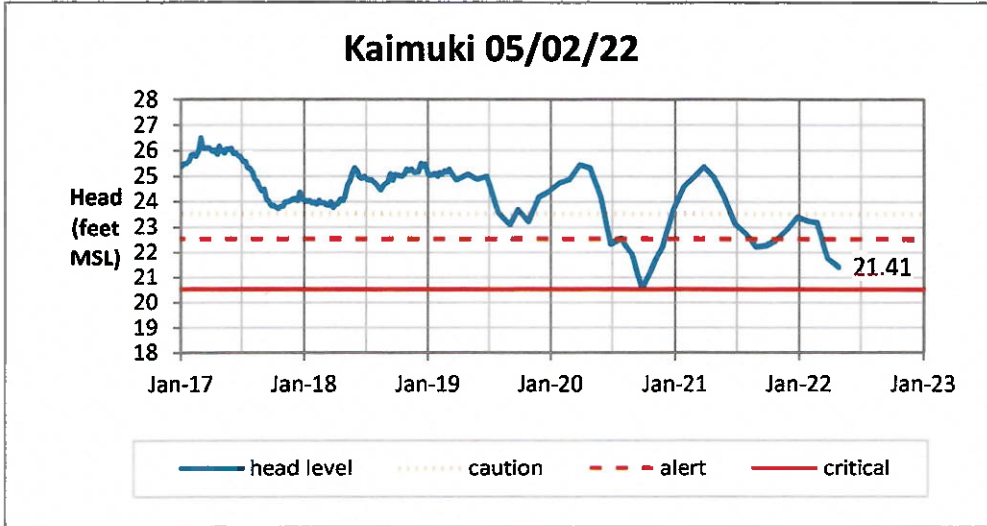
CWRM PERMITTED USE AND BWS ASSESSED YIELDS FOR BWS POTABLE SOURCES				
WATER USE DISTRICTS	A	B	C	DIFF. A-B
	PERMITTED USE/ BWS YLDS	MAY 2022		
1 HONOLULU	82.93	57.05		25.88
2 WINDWARD	25.02	13.07		11.95
3 NORTH SHORE	4.70	3.59		1.11
4 MILILANI	7.53	4.42		3.11
5 WAHIAWA	4.27	2.86		1.41
6 PEARL CITY-HALAWA	12.25	8.78		3.47
7 WAIPAHU-EWA	50.63	35.60		15.03
8 WAIAANAE	4.34	2.54		1.80
TOTAL:	191.67	127.91		63.75

CWRM PERMITTED USE FOR BWS NONPOTABLE SOURCES				
WATER USE DISTRICTS	A	B	C	DIFF. A-B
	PERMITTED USE	MAY 2022		
7 WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.21		-0.21
TOTAL:	1.00	1.21		-0.21

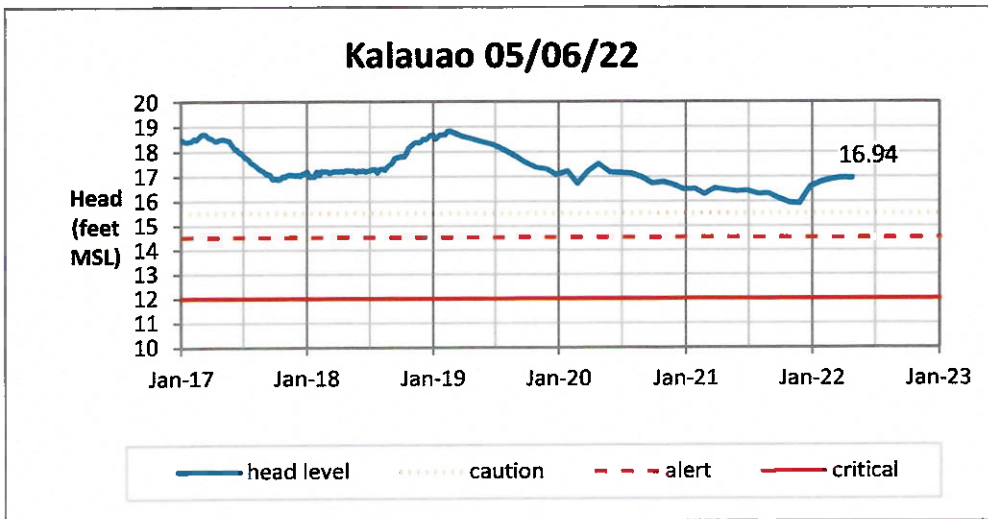
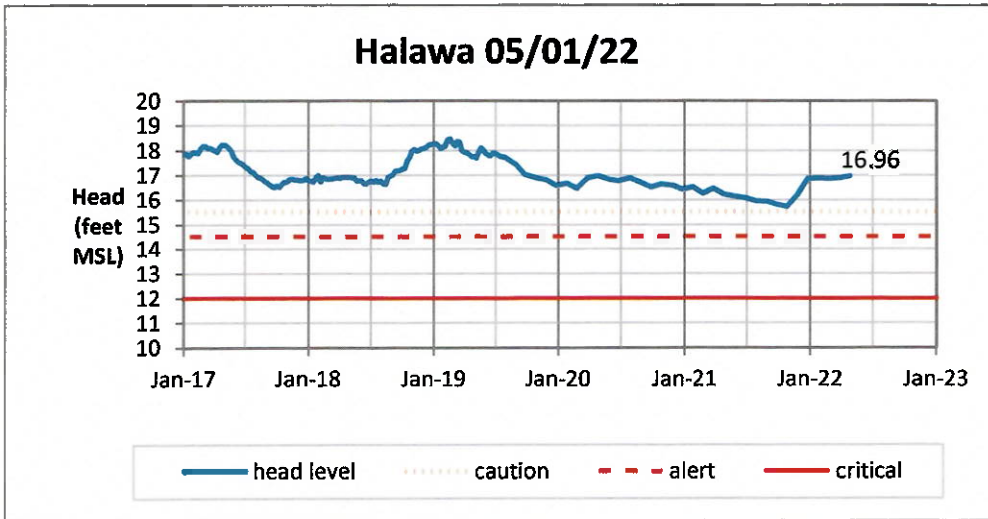
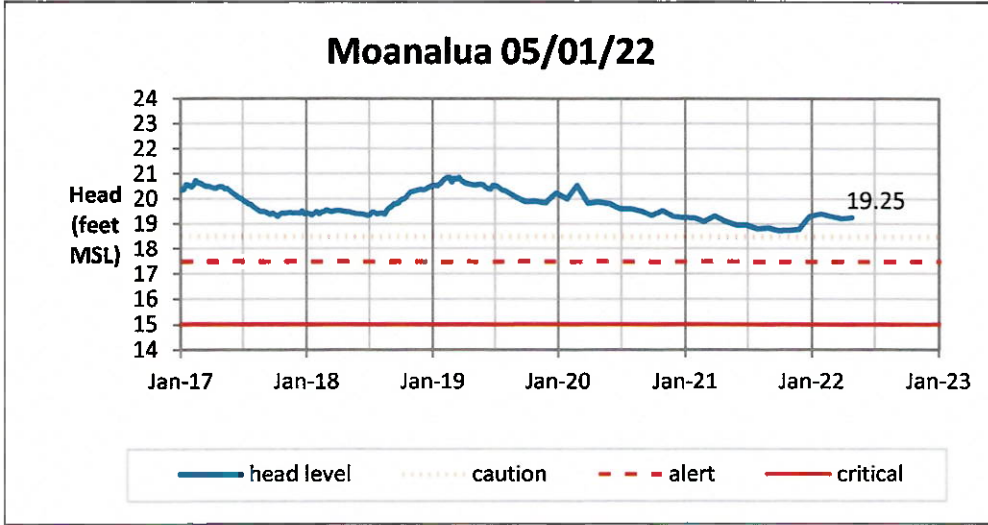
EFFECTIVE WATER DEMAND PER DISTRICT				
IMPORT/EXPORT BETWEEN WATER USE DISTRICTS				
FROM	TO			MGD
2	1	WINDWARD EXPORT		0.93
7	8	BARBERS PT LB		5.39

WATER USE DISTRICTS	SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1 HONOLULU	57.22	0.93	-	58.15
2 WINDWARD	17.59	-	0.93	16.66
3 NORTH SHORE	3.59	-	-	3.59
4 MILILANI	4.42	-	-	4.42
5 WAHIAWA	2.86	-	-	2.86
6 PEARL CITY-HALAWA	8.78	-	-	8.78
7 WAIPAHU-EWA	35.60	-	5.39	30.21
8 WAIAANAE	4.07	5.39	-	9.46
TOTAL:	134.13	6.32	6.32	134.13

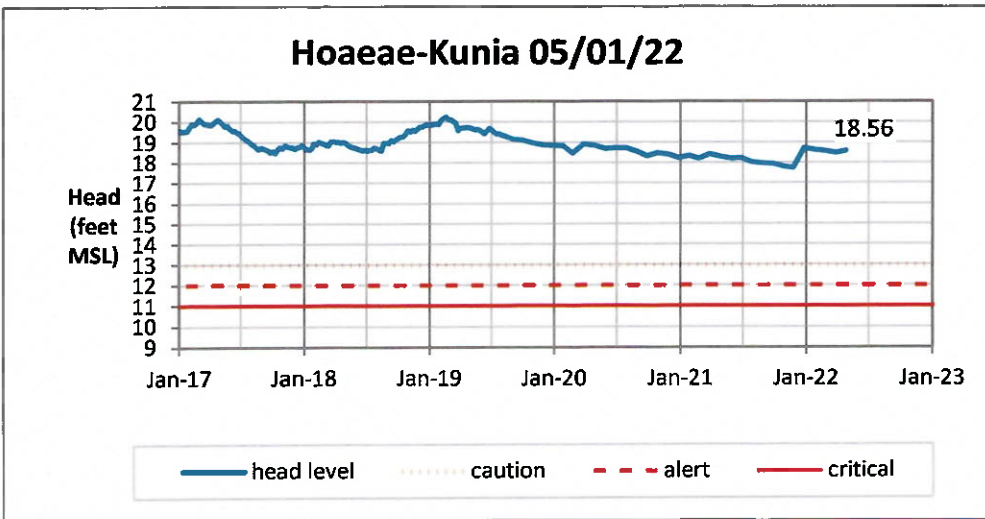
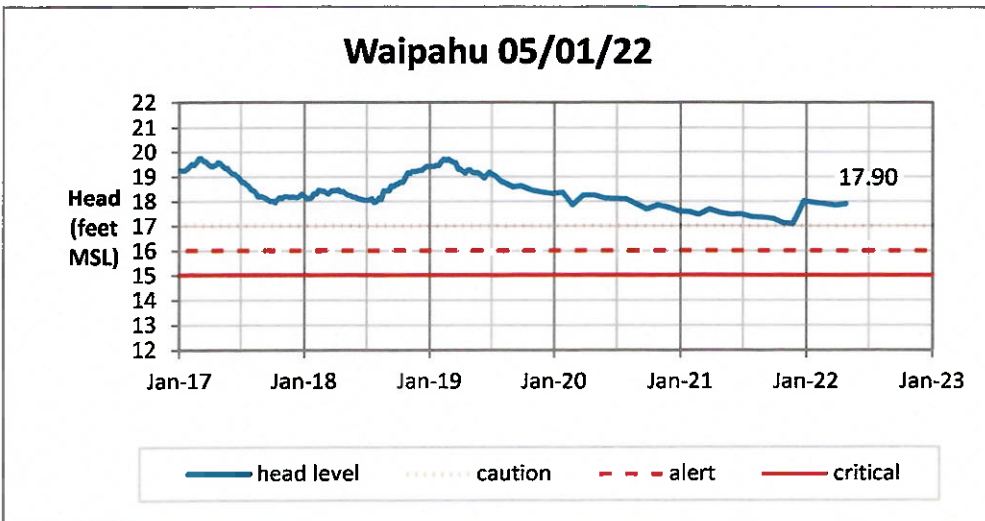
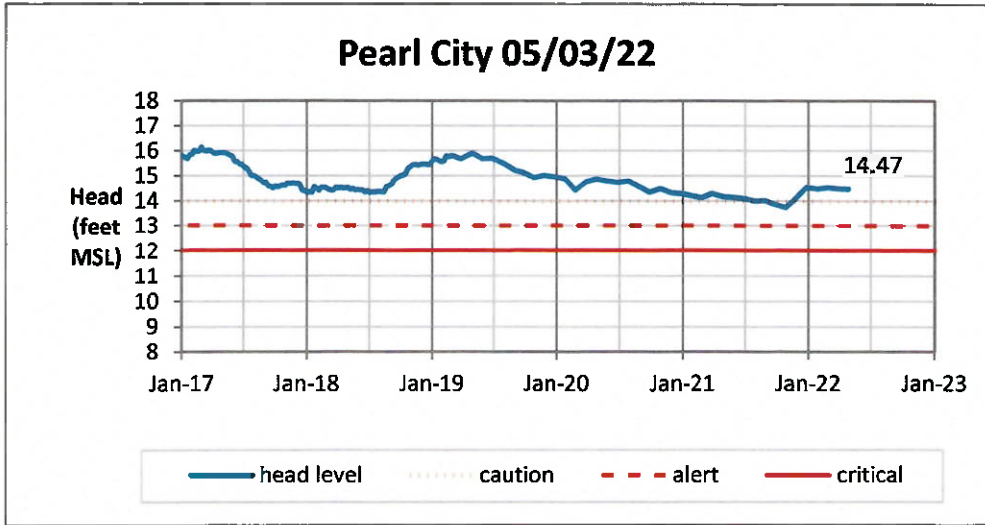
Head Report



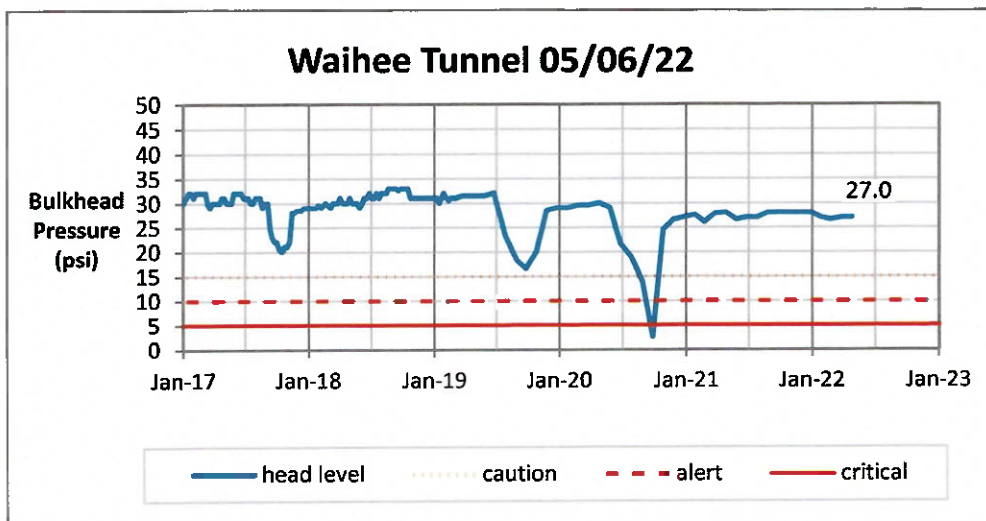
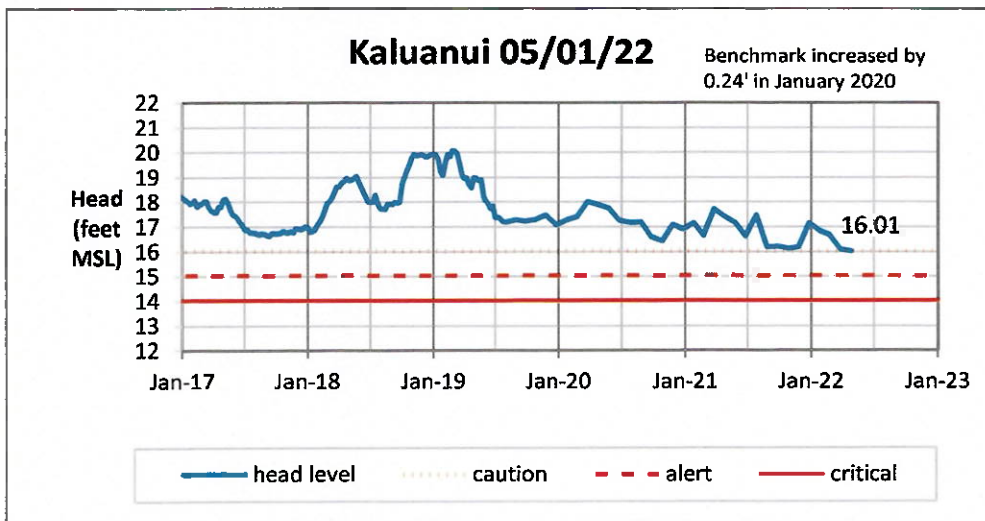
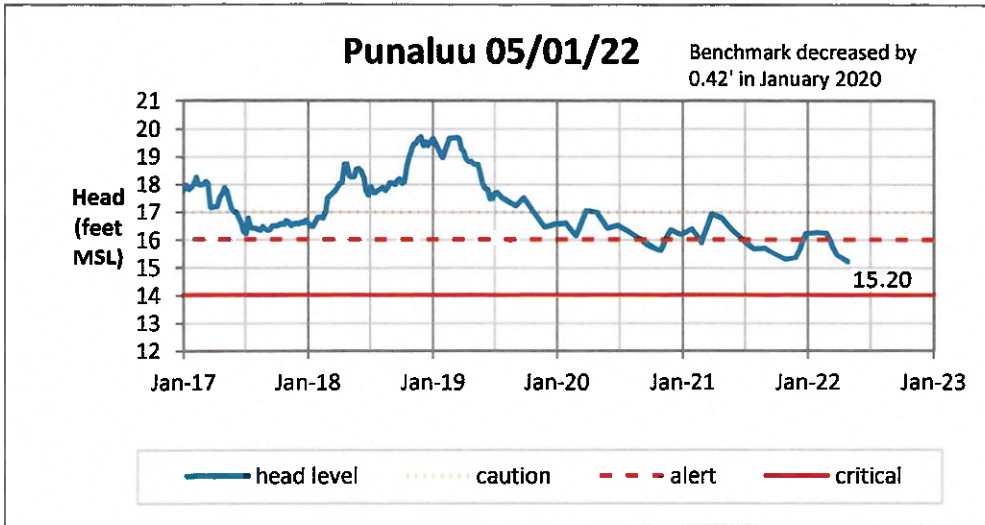
Head Report



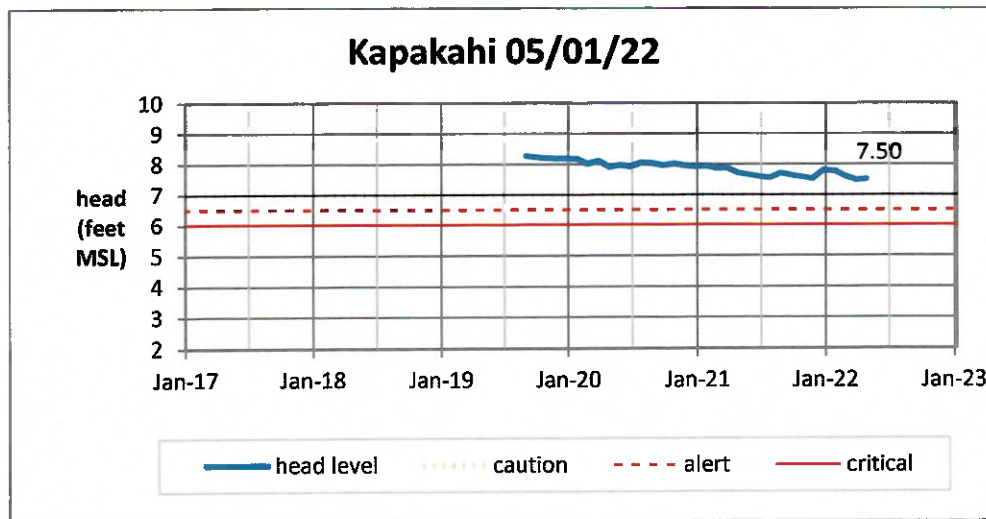
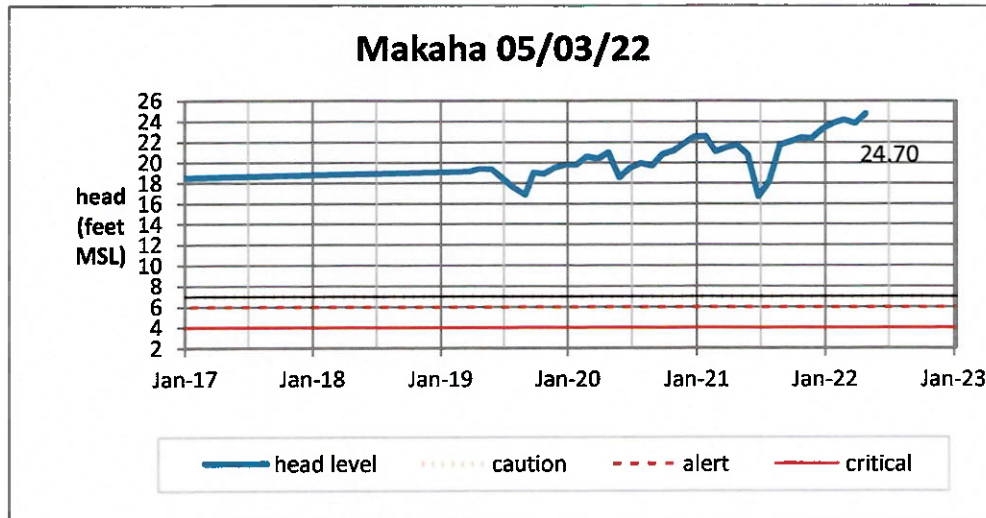
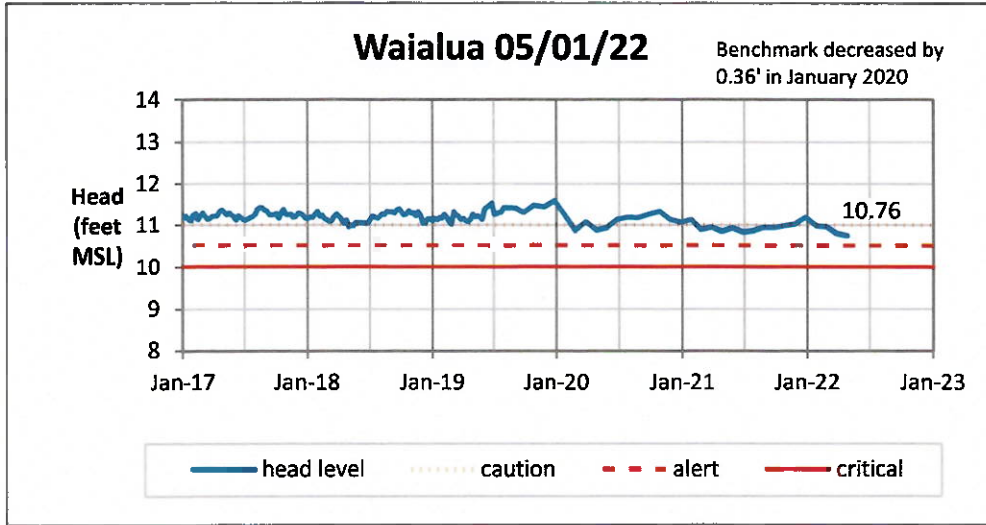
Head Report

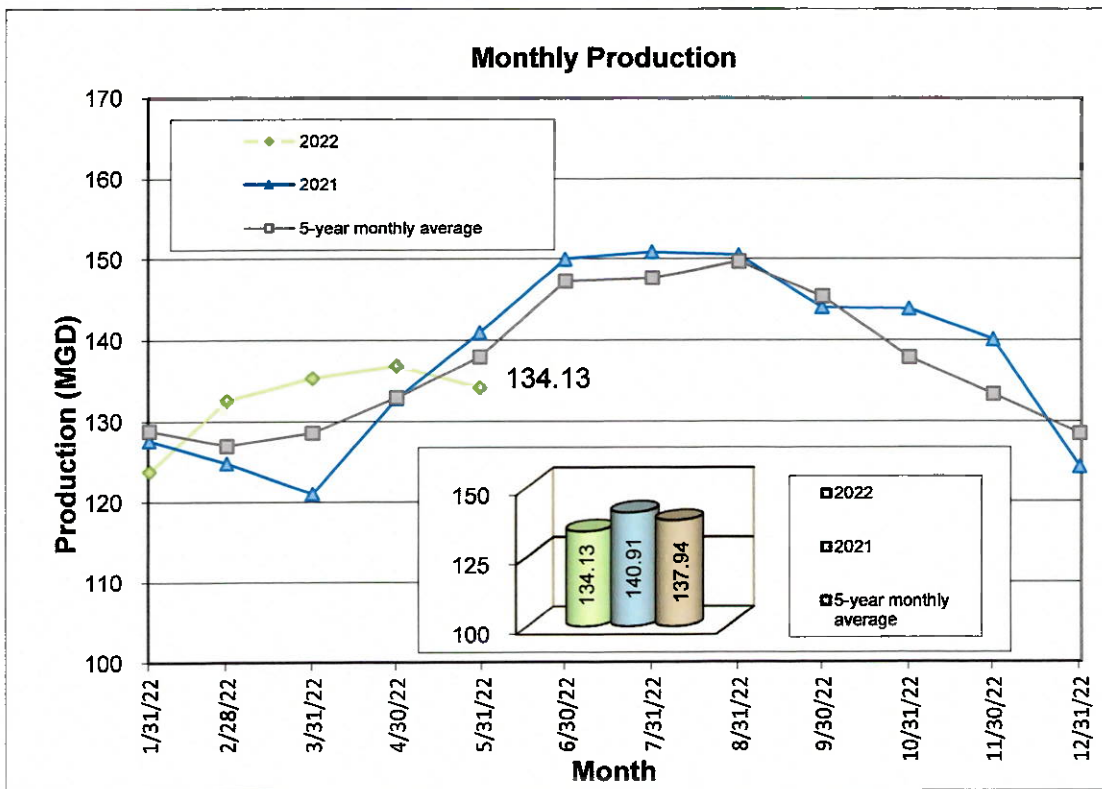
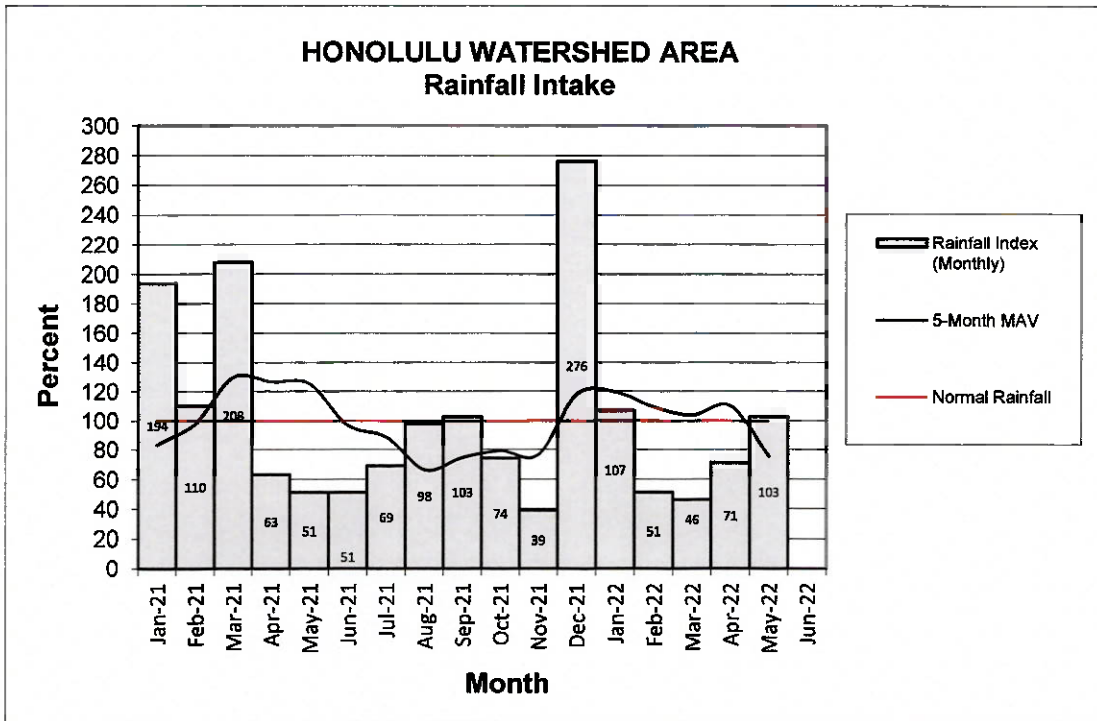


Head Report



Head Report





ITEM FOR INFORMATION NO. 5

"June 27, 2022

WATER MAIN
REPAIR
REPORT FOR
MAY 2022

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

Chair and Members:

Subject: Water Main Repair Report for May 2022

Jason Nikaido, Program Administrator, Field Operations Division, will report on water main repair work for the month of May 2022.

Respectfully submitted,

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

Attachment"

The foregoing was for information only.

DISCUSSION:

Jason Nikaido, Program Administrator, Field Operations Division, gave the report.

Manager Lau praised Mr. Nikaido for his creativeness and innovativeness. He took the lessons learned from the 42" main break near Fort Shafter in 2021 that required divers and applied them to the main break in Mapunapuna. Manager Lau asked Mr. Nikaido how long did it take to complete the repair of the main.

Mr. Nikaido responded that it took approximately two weeks.

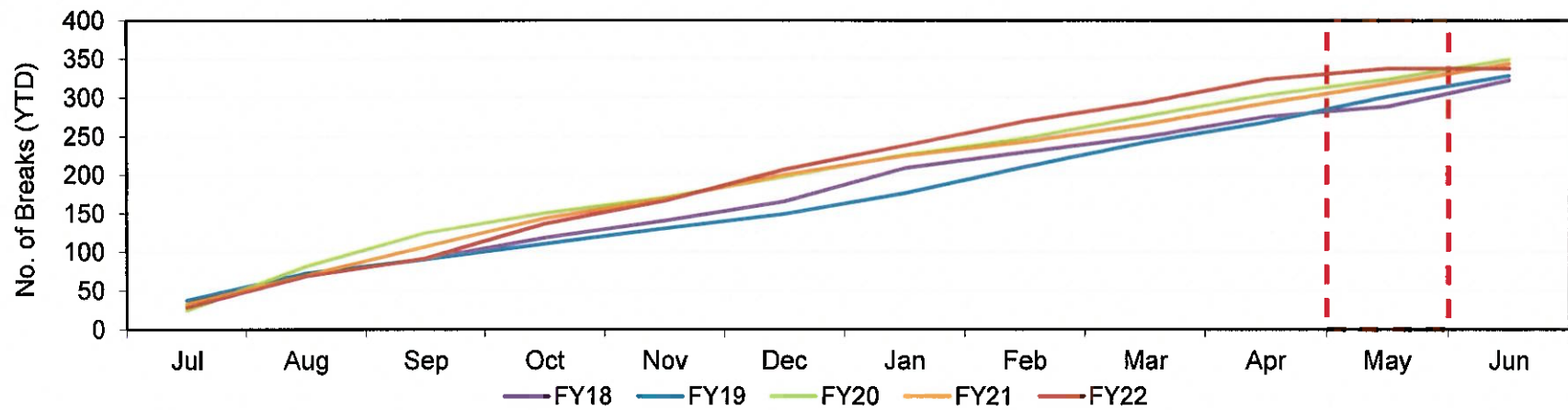
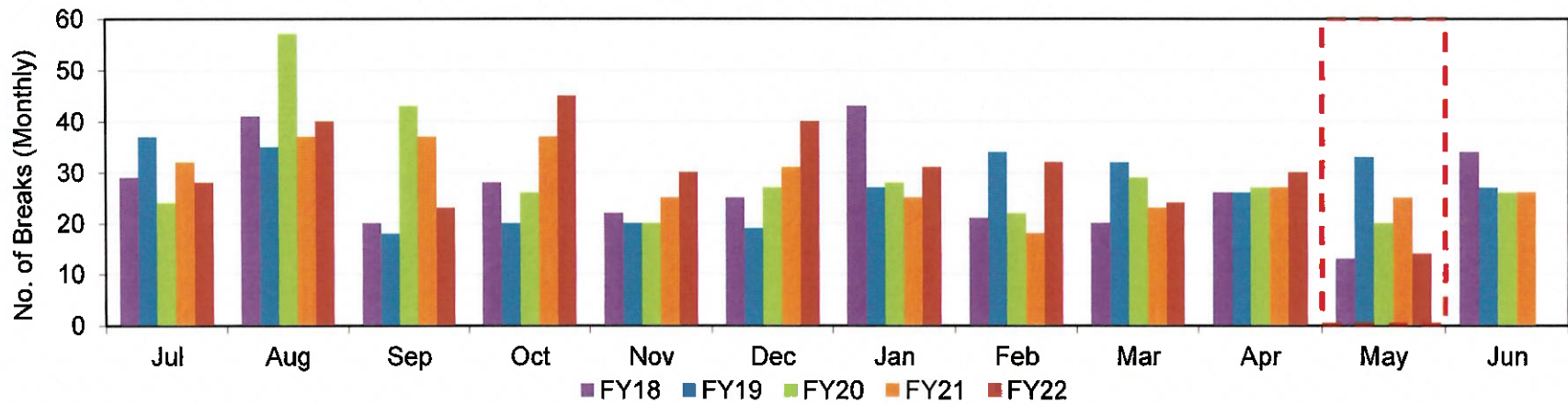
Chair Andaya inquired if the divers were subcontracted.

Mr. Nikaido replied that the divers are a subcontracted local company that also works with Pearl Harbor.

**WATER MAIN REPAIR REPORT
for May 2022**

Monthly Main Breaks

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	28	40	23	45	30	40	31	32	24	30	14		337
2021	32	37	37	37	25	31	25	18	23	27	25	26	343
2020	24	57	43	26	20	27	28	22	29	27	20	26	349
2019	37	35	18	20	20	19	27	34	32	26	33	27	328
2018	29	41	20	28	22	25	43	21	20	26	13	34	322

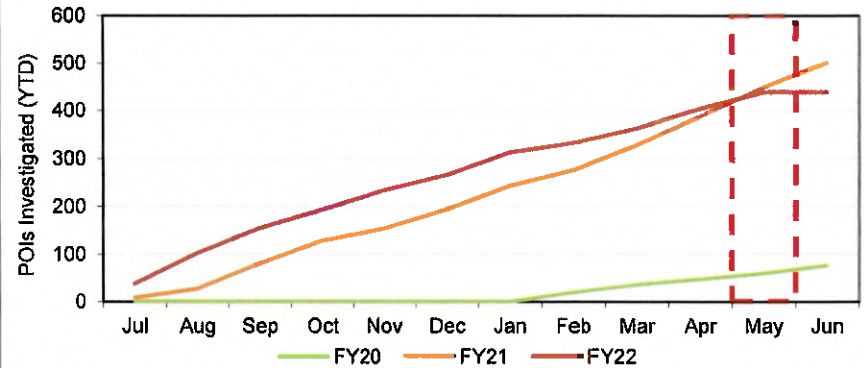
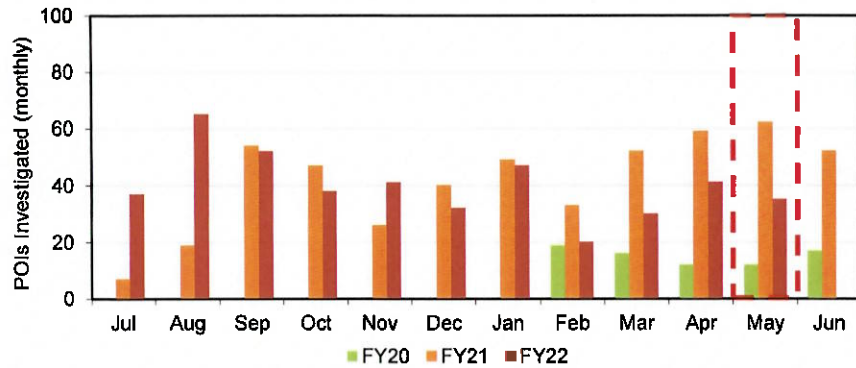


Date	Address	Size (In)	Pipe Type
5/1/2022	408 N Kuakini St, Honolulu	12	CI
5/2/2022	3224 Pelekane Dr, Honolulu	6	CI
5/3/2022	982 Hao St, Honolulu	8	CI
5/4/2022	2175 Makaanani Dr, Honolulu	6	CI
5/5/2022	2853 Kuikele Pl, Honolulu	4	CI
5/5/2022	92-642 Palailai St, Kapolei	8	CI
5/10/2022	92-642 Palailai St, Kapolei	8	CI
5/10/2022	1860 Ala Moana Blvd, Honolulu	6	CI
5/11/2022	425 Ena Rd, Honolulu	6	CI
5/12/2022	1835 Ala Moana Blvd, Honolulu	4	CI
5/19/2022	86-209 Kawili St, Waianae	8	PVC
5/20/2022	854 16th Ave, Honolulu	6	CI
5/24/2022	4362 Punihi St, Honolulu	8	CI
5/29/2022	87-124 Maaloa St, Waianae	8	CI

**LEAK DETECTION
for May 2022**

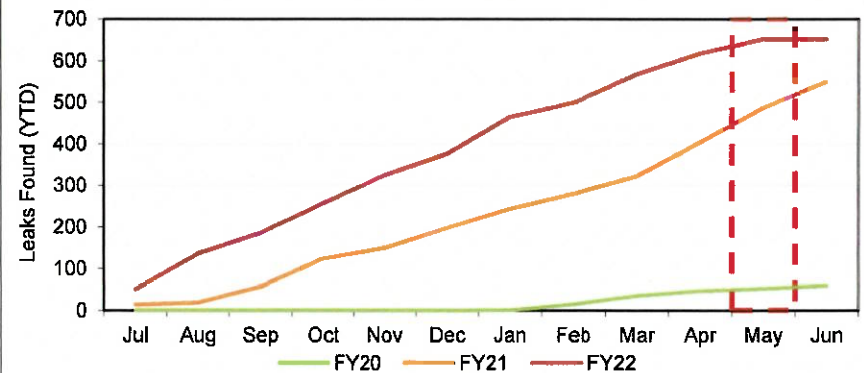
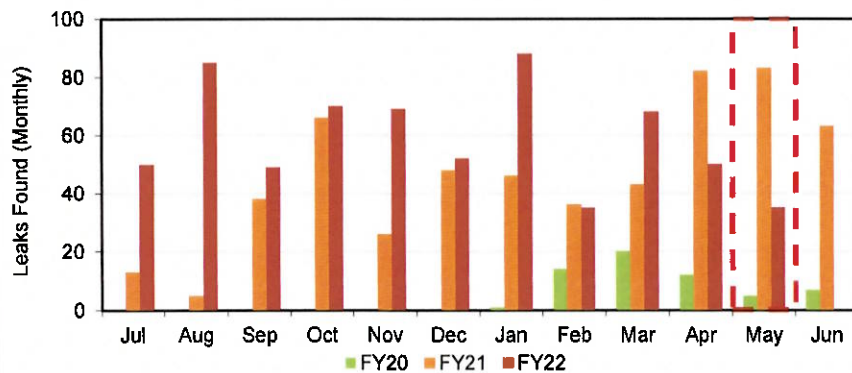
POIs Investigated

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	37	65	52	38	41	32	47	20	30	41	35		438
2021	7	19	54	47	26	40	49	33	52	59	62	52	500
2020							0	19	16	12	12	17	76



Leaks Found

FY	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
2022	50	85	49	70	69	52	88	35	68	50	35		651
2021	13	5	38	66	26	48	46	36	43	82	83	63	549
2020							1	14	20	12	5	7	59





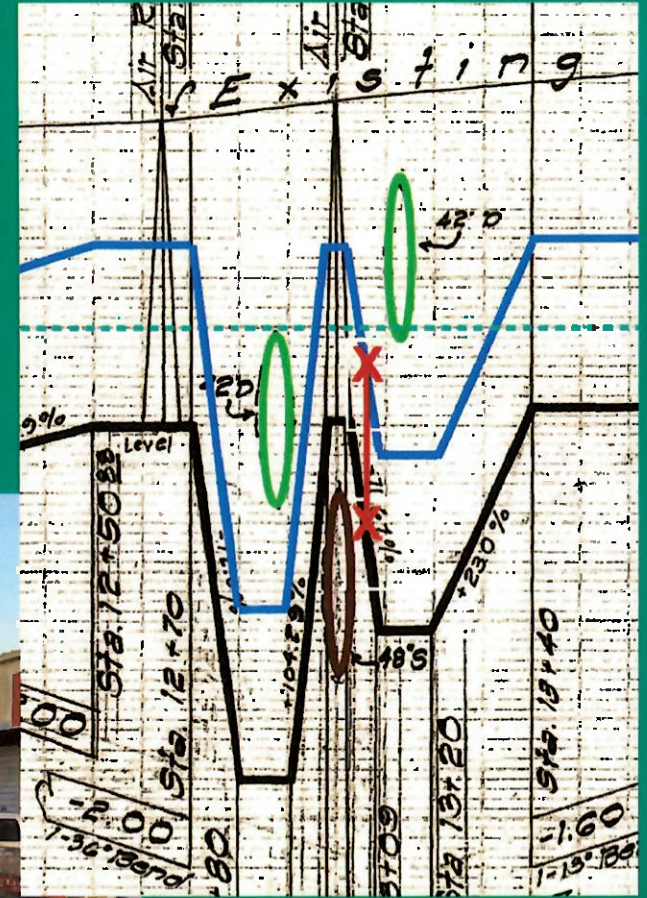
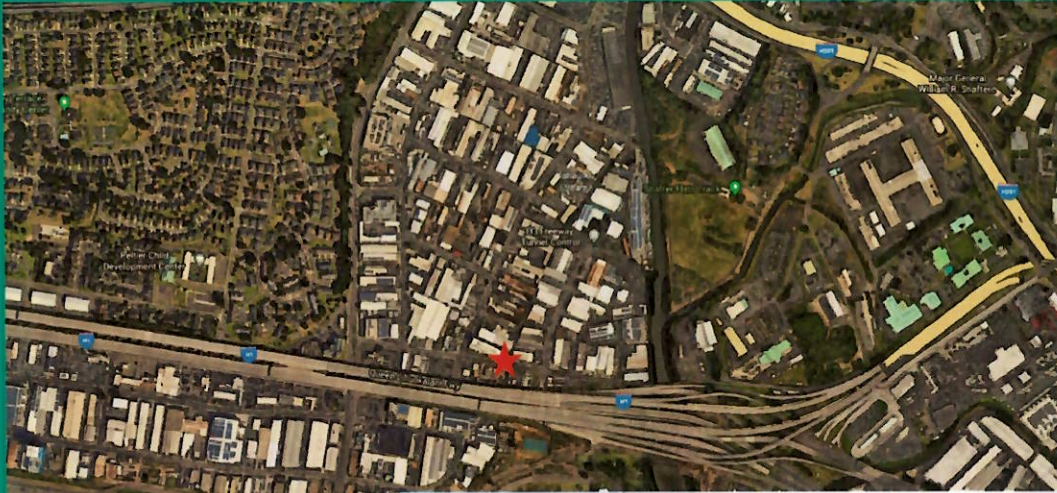
KILHAU 42-INCH MAIN BREAK

Jason Nikaido

June 27, 2022

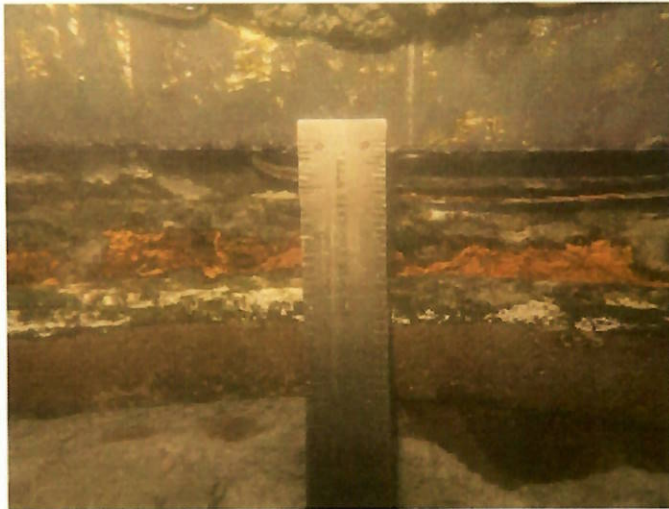
www.boardofwatersupply.com











12 O'clock Position – 1-1/2" Separation, 1/8" Offset



6 O'clock Position – 3/4" Separation, 0" Offset



3 O'clock Position – 2" Separation, 1/16" Offset



9 O'clock Position – 1-1/2" Separation, 1/16" Offset









Questions?

WWW.BOARDOFWATERSUPPLY.COM



MOTION TO RECESS INTO EXECUTIVE SESSION

There being no further business Chair Andaya at 3:19 PM called for a motion to adjourn the Open Session. Max Sword so moved; seconded by Na'alehu Anthony and unanimously carried.

Upon unanimous approved motion, the Board recessed into Executive Session Pursuant to [HRS § 92-5 (a)(4)] at 3:20 PM to Consider Issues Pertaining to Matters Posted for Discussion at an Executive Session.

OPEN SESSION

The Board reconvened in Open Session at 3:47 PM.

MOTION TO ADJOURN

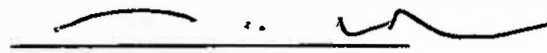
There being no further business Chair Andaya at 3:48 PM called for a motion to adjourn the Regular Session. Ray Soon so moved; seconded by Max Sword and unanimously carried.

The minutes of the Regular Meeting held on June 27, 2022 are respectfully submitted,


JOY CRUZ-ACHIU

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON JUNE 27, 2022 WERE APPROVED AT THE JULY 25, 2022 BOARD MEETING			
	AYE	NO	COMMENT
BRYAN P. ANDAYA	X		
KAPUA SPROAT	X		
RAY C. SOON	X		
MAX J. SWORD	X		
NA'ALEHU ANTHONY	X		
JADE T. BUTAY	X		
DAWN B. SZEWCZYK	X		

APPROVED:


BRYAN P. ANDAYA
Chair of the Board
JUL 25 2022

Date _____